



Encounter Lakes Franklin Island Management Plan

December 2020





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DOCUMENT CONTROL

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Version 2 Encounter Lakes Franklin Island Management plan supersedes and replaces all previous Encounter Lakes and Encounter Lakes Franklin Island Management Plans.					



Background

Encounter Lakes

In the mid 1980's a vision emerged to transform an area of low lying virtual wasteland on the seaward side of Bay Road between Victor Harbor and the Bluff into a new and prestigious residential estate.

An ordinary subdivision was never in mind for this tract of land. The concept called for the construction of a passive recreational lake as a centre piece, and the vision emerged as a residential development unique in concept, environmental quality and location. The concept provided lifestyle opportunities, setting it apart from other living environments with its landscaped reserves, lakeside beaches and waterfront allotments.

Surveyors and civil engineers were engaged to evolve the concept to a plan for submission to the then District Council of Victor Harbor. In 1987, Planning Application 453/D019/87 was lodged with Council by a joint venture formed between Adelaide Development Co Pty Ltd, Kinsmen Pty Ltd and McMahon Holdings Pty Ltd. This applications requested approval to divide land comprised in Certificate of Title Volume 2029 Folio 63 and a portion of the land comprised in Certificate of Title Folio 1018 Folio 87 and Volume 4152 Folio 681.

A Memorandum of Agreement was signed on 22 December 1987 between the District Council of Victor Harbor and the Joint Venture Company Bluff Harbor Pty Ltd for the construction of Encounter Lakes. Extensive civil engineering works were required for the first stage of the lake construction, including the laying of a concrete pipe into Encounter Bay to supply seawater to the lake system through a control valve, and the commencement of the network of roadways and other services.

The objective was to provide a pleasant lakeside residential area characterised by high quality waterfront housing and landscaped public reserves. The first stage land release of 46 allotments was in late 1988, with a sales office and display homes constructed in Ketch Place. Underground services were provided, and decorative post top street lanterns to lend charm to this unique environment were installed. Protective encumbrances were registered on all Certificates of Title, and building guidelines were applied for investment and lifestyle protection, as well as limitations on the elapse of time from land purchase to commencement of dwelling construction. These standards prevailed through all stages of subsequent land releases.

The lake system was expanded in further stages together with construction of roadways and land reserves. Planned progressive stages of land releases brought about the orderly establishment of dwellings and community settlement with the final land release taking place in 2001. The development comprises 495 residential allotments made up of 284 with lake frontages, 193 on adjacent off-lake land, and a final 18 on adjoining land at the north west end of Ainslie Roberts Drive.

There are also twelve landscaped public reserves (each of which have been named after past Mayors of the then District Council of Victor Harbor) and six public beach areas, four of these beaches are accessible only from the waterway.



Under the Joint Venture Agreement Council agreed to accept responsibility for the maintenance of the lake, lake edge, tidal flushing pipe (including its ancillary works), the beach areas and other reserves within the development after completion of the maintenance period, and agreed to do so to the same standard as the company maintained them during the maintenance period.

In 1995/96 Council took control of the inlet pipe beacon after accepting that the maintenance period for the initial stage of the lake was complete. Upon fulfilment of all the conditions set out under the terms of agreement, Council took full control of Stages 1 to 4 of the lake including the control mechanism in the first half of 2001. The remainder of the development was handed over to Council at the end of the maintenance period for Stages 5 to 8.

Franklin Island

In 2007, the joint venture responsible for constructing Encounter Lakes commenced construction of the second lake on the northern side of Bartel Boulevard, Franklin Island. This was a 5 stage development creating an additional 107 allotments located both surrounding the lake and on 'Franklin Island' within the lake accessed by an earth causeway. The development included a public beach with a playground. The lake was commissioned in 2009 and handed over to Council in 2014.

The water supply for the Franklin Island lake (volume 36ML) is sourced from Encounter Lakes (volume 204ML), and is similarly discharged back into Encounter Lakes. A series of pipes with 2 Batescrew 9/11 Fresh Flush Waster Lubricated Columnless Axial Flow pumps driven by 11KW motors, 6 Rotork valves and ultrasonic water level input sensors ensure that appropriate water quality and lake levels are maintained. Data from sea and lake level sensors at both lakes in association with constant communication between both lakes ensures water is turned over in both lakes as efficiently as possible to maximise lake health.

On average the time taken for water to travel through the lakes system is approximately 15 days. The 'oldest' water in the lake is near Ketch Place, where a private beach is located. To improve water quality near the lake outlet, Council maintains an aerator that operates daily to aerate and assist circulation of water in this area.

This Management Plan was developed in 2010 as the Encounter Lakes Management Plan, and was amended in 2015 to accommodate Franklin Island lake, reserves, beaches and public infrastructure. The management plan contains the procedures and sets the benchmarks to be adopted by Council to ensure that it meets its obligations under the Joint Venture Agreement.



Consultation Process

1. The City of Victor Harbor is committed to open, accountable and responsive decision making by effective communication and consultation between Council and the community. The way Council will engage and consult with the community is outlined within its Public Consultation Policy (Appendix 1). It should be noted that Council may review and/or amend the Public Consultation Policy at any time independently of this management plan, and Appendix 1 may not be updated until the next review of the management plan.
2. In order to effectively implement the Encounter Lakes Franklin Island Management Plan, Council will:
 - 2.1. Maintain close links with the committee of the Encounter Lakes Residents' Group Incorporated (ELRGI), or any other group representative of the residents of Encounter Lakes and Franklin Island, by undertaking regular meetings.
 - 2.2. Promptly inform residents and ratepayers of the ELRGI and other residents and ratepayers that are none members of the ELRGI of all matters affecting the management and maintenance of the Encounter Lakes/Franklin Island development.
 - 2.3. Ensure that City of Victor Harbor representatives are available to liaise with residents and ratepayers, or their elected representatives, on matters that may have effect on individual properties or the general Encounter Lakes/Franklin Island community.
 - 2.4. The City of Victor Harbor's Public Consultation Policy will apply to all matters affecting the Encounter Lakes/Franklin Island community and adjoining areas and such matters will be referred to the ELRGI or to any other future representative body formed in consultation with Encounter Lakes/Franklin Island residents and agreed by Council.
 - 2.5. Council shall not implement any decision for change unless the due course of consultation has been drawn to a satisfactory conclusion by liaising with the committee of the ELRGI, unless such decision falls within the scope of the emergency procedures under Section 12 of the Management Plan.

Definitions and Interpretations

Subject to any inconsistency of subject or context in the interpretation of this plan, the following terms and expressions shall mean:

Adjacent Land	All other land within the boundaries of the Encounter Lakes/Franklin Island development except that defined as <i>Adjoining Land</i> .
Adjoining Land	Allotments and other land fronting Ainslie Roberts Drive north west of the George Battye Reserve easement.
The Company	For Encounter Lakes, Bluff Harbor Pty Ltd is no longer in operation. Franklin Island was under the ownership of Adelaide Development Company. Both sites are under the care, control and management of the City of Victor Harbor, excluding vacant residential allotments.
Control Chamber	The structure in which the control valve is enclosed.
Control Valve	The sluice gate mechanism that regulates the inflow and outflow of seawater between the ocean and lake system.
Council	City of Victor Harbor
Cross Flow Pipe	The redundant waterway connecting pipe
Easement	The right of way afforded to another person to make limited use of passage through a private property.
Encounter Lakes Development	The parcel of land comprised in Certificate of Title Volume 2029 Folio 63 and portion of land comprised in Certificate of Title Volume 1018 Folio 87 and Volume 4152 Folio 681 which Council gave consent to develop into residential allotments with a lake under Planning Application 453/D019/87.
Encounter Lakes Residents Group Incorporated (ELRGI)	The body of property owners and/or residents within the Encounter Lakes and Franklin Island development who voluntarily subscribe for membership to form a recognised group with an elected committee to represent the lakes community in dealings with Council and other authorities.
Franklin Island Development	The parcel of land comprised in Certificate of Title Volume 5541 Folio 14 which Council gave consent to develop into residential allotments with a lake under Planning Application 453/D030/95

Geotextile Fabric	The matting barrier placed between the earth embankment of the lake and the rip rap revetment.
Hand-over	The formal transfer of responsibility from the Company to Council at the end of the maintenance period for ongoing maintenance of the lake, lake edge, tidal flushing pipe and all its ancillary works, the beach areas and other reserve areas adjacent to the lake.
Incidental Use	(or Secondary Contact) recreational water activities such as boating, fishing, wading and the occasional and inadvertent immersion through slipping or being swept into the water by a wave.
Inlet Chamber	The sump structure at the discharge point of the inlet duct.
Inlet Duct	The pipe supplying the inflow of seawater from the control chamber to the discharge chamber in the lake.
Joint Venture	Adelaide Development Co Pty Ltd, Kinsmen Pty Ltd and McMahon Holdings Pty Ltd, Bluff Harbor Pty Ltd.
Lake	The public recreational waterway of approximately 14 hectares Encounter Lakes and approximately 2.6 hectares Franklin Island surface area around which the development has been established
Lake Edge	Surveyed property boundaries provided by a licensed surveyor.
Lakeside Zone	Allotments and other land sharing a common boundary with the lake waterway and/or beach areas.
Memorandum of Agreement	The document signed on 22 December 1987 between the District Council of Victor Harbor and the Joint Venture for the development of Encounter Lakes to proceed under Planning Application 453/D019/87.
Neighbouring Land	Land which shares infrastructure facilities with or is in the immediate vicinity of the Encounter Lakes and Franklin Island development.
Outlet Duct	The pipe connecting the discharge chamber to the control chamber.
Primary Contact	National Health and Medical Research Council (NHMRC) Classification for direct contact recreational usage of a water body that allows for water to be swallowed, inhaled or come into contact with ears, nasal passages, mucous membranes or cuts in the skin. The type of use under this classification includes swimming, diving, surfing or white-water canoeing.

Rip Rap	The protective rock revetment bordering the lake.
Sea Intake Chamber	The sump structure that provides a trap for algae and seabed debris entering the sea intake duct.
Sea Intake Duct	The pipe supplying seawater from the sea intake to the control chamber.
Sea Intake	The point of termination of the duct extending approximately 250 metres offshore in Encounter Bay through which water exchange takes place between the ocean and the lake.
Sensor	The Programmable Logic Controller (PLC) sensing device controlling the operation of the control valve.
Stormwater Outlet	The discharge point of the stormwater drain.
Stormwater Pipes	The pipes connected to the street stormwater drain pits that directs and discharges stormwater into the lake.
Trash Racks	The receptacles fitted to each stormwater entry pit to trap street litter and other debris to prevent it from entering the lake through the stormwater pipes.
Two-way Flushing Pipe	The redundant section of pipe laid under Nicolas Baudin Drive during the early stage of the lake construction.

Scope of Plan

1. The Management Plan will be applied by Council to the whole of the area which is delineated by the bounding red lines on the plan shown in Appendix 2.
2. Under the Memorandum of Agreement signed on 22 December 1987 between the District Council of Victor Harbor and Bluff Harbor Pty Ltd for the construction of the Encounter Lakes residential development, Council agreed to accept responsibility to maintain the lake, lake edge, tidal flushing pipe and all its ancillary works, the beach areas and other reserves adjacent to the said lake after completion of the maintenance period to the same standard as the company maintained them during the maintenance period.

A separate Memorandum of Agreement was not created for the Franklin Island residential development.

3. Council is to meet its obligations under the Memorandum of Agreement by undertaking the actions and procedures contained in this Management Plan for the purpose of managing, monitoring, inspecting, testing, maintaining, servicing, repairing, recording and liaising with community representatives in all matters relating to:
 - Lake system waterway;
 - Sea intake, lake inlet, lake outlet and cross-flow duct;

- Control chamber and water control gates;
- Control chamber mechanisms, electrical switchboards and circuitry;
- Rip rap rock revetment to the lake edge;
- Lake beaches;
- Land reserves;
- Stormwater drains and stormwater management;
- Approval of on-lake landings, jetties and pontoons;
- Roadways, traffic and pedestrian management;
- Emergency procedures;
- Other matters which may arise from time to time.

Council's Obligations

1. Under the Memorandum of Agreement signed on 22 December 1987 between the District Council of Victor Harbor and Bluff Harbor Pty Ltd for construction of the Encounter Lakes residential development, Council agreed to accept responsibility to maintain the lake, lake edge, tidal flushing pipe and all its ancillary works, the beach areas and other reserve areas adjacent to the said lake after completion of the maintenance period to the same standard as the company maintained them during the maintenance period.
2. Council will meet all its obligations contained in the management plan pursuant to:
 - any statutory obligation;
 - managing, monitoring, inspecting, testing, maintaining, servicing, repairing and recording;
 - the consultation process;of the lake system and all the associated infrastructure of the Encounter Lakes and Franklin Island residential development as delineated in Appendix 2.
3. All costs incurred by Council will be met from general revenue, including but not limited to income that Council receives by way of rates revenue in respect of all properties within the Encounter Lakes and Franklin Island development.

Lake Waterway Management

1. No powered watercraft will be permitted in the lake unless prior Council approval is given. Strict conditions of use will apply with limitations on type of craft, purpose of use, length of time in the water and maximum permitted speed.
2. Any aquatic activity proposed to be held on Encounter Lakes and Franklin Island will require a permit. An application for aquatic permit is to be submitted to the City of Victor Harbor for assessment.
3. Water quality is maintained by a flow control chamber connecting the lake to the sea by a series of underground and submerged ducts with water exchange rates between the two



being critical to maintaining water quality that meets the standards adopted by the South Australian Environmental Protection Authority (EPA). A monitoring regime is established for a program of scheduled water testing and infrastructure inspection and maintenance. Council will:

- 3.1. Maintain and cause to be maintained the lake controls and associated infrastructure in accordance with the procedures and maintenance requirements set out in Appendix 3.
 - 3.2. Inspect, maintain and service the PLC sensing device, screw and bearings of the gate mechanism, and other electrical and mechanical devices annually, so that all functions continue to operate to maximum design performance. A record is to be kept of each inspection to provide detailed information of the results of the inspection, work carried out or that which is required to be carried out. There is to be no delay to the requirement for work which may have a negative impact on the water quality or exchange rates within the lake system.
 - 3.3. Ensure that height storage design relationships of +0.30 and -0.30 Australian Height Datum are maintained.
 - 3.4. Monitor and maintain a record of the hydraulic characteristics to provide a circulation of water exchange as near as practical to the design parameters of 9.1 days as determined by the height differential between the lake and the ocean.
 - 3.5. Alter the flow regime as such, and maintain a record of this action, should there be sufficient flexibility in terms of alternating the flow through the lake system as a means of improving water quality.
 - 3.6. Implement and maintain environmental practices and water sampling, with records being maintained, to ensure that external stormwater run-off entering the lake from adjoining land bounded by Tabernacle Road, Bay Road, Bartel Boulevard, Encounter Terrace, Henry Street and Ainslie Roberts Drive, Malen Avenue, Central Drive, Harbour View Terrace and Gibson Avenue does not have a detrimental impact on the water quality or marine life within the lake system.
 - 3.7. Take water samples during the months December, January, February, March, April and July/August of each year. Samples are to be taken from each of the nine (9) locations identified in Appendix 4 “Plan Delineating Encounter Lakes and Franklin Island Water Sampling Points” for laboratory analysis to determine the microbiological characteristics and the levels of E-coli, faecal coliforms and protozoans such as giardia and cryptosporidium. Testing is also to be carried out for the physical and chemical characteristics for the presence of nutrients or other forms of contaminants to assess the quality of the waterway for primary contact recreational use as determined by reference to the requirements of the SA Environment Protection (Water Quality) Policy 2003 and the National Health and Medical Research Council (NHMRC) guidelines for Managing Risks in Recreational Water 2008
4. A record is to be maintained of all tests performed and the results. Such records are to be kept by Council for a minimum of ten (10) continuous years.
 5. In the event that the lake system is deemed to be unsafe for use immediate action is to be taken as outlined under Section 12 “Emergency Procedures”.

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6. In the event of any control gate failure or malfunction Council will:
 - 6.1. Take any immediate action to mitigate any hazards caused by the malfunction if safe to do so.
 - 6.2. Immediately contact the appointed contractor/s to arrange inspection of the electrical and/or mechanical control components.
 - 6.3. Require the contractor/s to attend the site within two working days and give an immediate verbal report to Council following the inspection.
 - 6.4. Require the contractor/s to then provide a written report within two working days with a quotation for the cost of any required repairs and/or replacement of parts.
 - 6.5. Following receipt of the written report, give authorisation to the contractor/s within two working days for the work to be carried out.
 - 6.6. Ensure that any negative impact on water quality within the lake is minimal by taking every reasonable action necessary to avoid delays in having any required work completed in the event that parts should be temporarily unavailable or need to be manufactured.
 - 6.7. At all times inform an executive committee member of the ELRGI details as they become known.

Rock Revetment Management

1. To preserve the ambience and amenity of the lake system it is important that the integrity of the rip-rap is protected. Vegetation of any kind growing on the rip-rap can provide shelter and a favourable breeding environment for vermin such as rats and mice which and are known to spread disease in Australia such as Typhus, Salmonellosis, Leptospirosis, and Toxoplasmosis. The presence of vermin also attracts reptiles such as snakes. Vegetation can also affect the quality of the water if left to become rampant.

In the interests of all residents individual property owners have no entitlement to interpret their own preferences for treatment of the rock-face as it may be detrimental to the proper maintenance and integrity of the rip-rap.

The adjoining property owner must obtain written consent from Council before making any modification to or performing any work that might impact the lakes rip rap (lake rock revetment).

Only approved private landings, jetties, pontoons and others structures are permitted on the lake, as detailed in Appendix 5 "Private Steps in Lake Rock Revetment" and Appendix 6 "Private Structures - Landings, Jetties and Pontoons".

2. Inspections are carried out on annual basis by a delegated member of Council staff with at least one executive committee member and one other from the ELRGI or a future group for the purpose of:
 - 2.1. Ensuring that the rip-rap is not removed, displaced or interfered with by lakefront property owners or residents. Should reinstatement be required as a result of such action Council is to give written notice to the property owner to reinstate any displaced rocks



within 30 days from the service of such notice with follow up inspections being carried out. Should no action be taken by the property owner Council is to undertake the reinstatement work and recover the cost of such work from the property owner.

- 2.2. Ensuring that no property owner or resident allows any vegetation to be planted, grown or encroach on to the rip-rap. Council will undertake an annual vegetation control program on the rip-rap and follow up with residents where there are concerns about non-compliance with this plan.
- 2.3. Identifying any form of unauthorised structure, fence, sign, obstacle, or item of any other nature placed on the rip-rap. Any such items are to be removed by the property owner within 30 days following the service of notice by Council. In the event that no action is taken by the property owner Council is to undertake the work with cost recovery from the property owner.
- 2.4. Instructing property owners and residents to moor water craft or otherwise use decks or landings as a hard stand facility and not use the rip-rap to store any type of water craft.
- 2.5. Collecting and disposing of any litter or rubbish and weeding of the rip-rap.

Beach Management

1. Beach locations are shown in Appendix 7 “Locations of Encounter Lakes Beaches”. Under the Joint Venture Agreement Council has an obligation to maintain beaches constructed at various locations around the lake to the same standard as the company maintained them during the maintenance period. The general amenity, ambience and enjoyment of the beach facility by property owners and the public must not be compromised by any deficiency in management controls.
2. During the month of September in each year a delegated member of Council staff with at least one nominated member from the ELRGI will inspect the beaches for the purpose of determining the need for Council to:
 - 2.1. Undertake weeding or removal of couch or other grass growth.
 - 2.2. Refurbish sand in order to maintain a minimum depth of 100mm of sand.
 - 2.3. Repair and replace timber retaining edgings.
 - 2.4. Monitor and take action to remove and/or reduce any sludge build-up. The monitoring and completion of this requirement is tracked using the Corporate Risk Register.
 - 2.5. Ensure that easements through private properties remain accessible to allow for effective management of beach areas. Easements are for drainage only, and are written into the title of the properties, therefore they are known at time of any property changing hands.
3. Council has no easement access for the purpose of maintaining the beach in the vicinity of Ketch Place/Bartel Boulevard/Nicolas Baudin Drive. If access through private property is not possible or otherwise denied, the responsibility for the maintenance of that beach area will rest collectively with the adjacent property owners.



Stormwater Management

1. Most of the stormwater from the Encounter Lakes and Franklin Island development drains into the lake system through roadway drains. Leaf litter from street trees and other plantings, street rubbish, pollutants and other debris will inevitably find its way into the lake through the stormwater drains. Under the Joint Venture Agreement with Council, the developer installed trash racks in each stormwater drain pit entry point. To ensure that these are effectively managed Council is to each month, or as required:
 - 1.1. Inspect and dispose of any accumulated debris caught in the trash racks.
 - 1.2. Ensure that every trash rack is correctly installed and remains effective in its operation.
 - 1.3. Replace any damaged trash racks within 30 days of damage being noticed.
 - 1.4. Undertake mechanical street sweeping.
2. Council, with the assistance of the committee of the ELRGI, is to maintain a program of education to ensure that residents or any other relevant body:
 - 2.1. Do not allow stormwater run-off from residential properties to by-pass collection pipes for kerbside discharge.
 - 2.2. Use safe practices in the application of garden fertilisers and pesticides.
 - 2.3. Are aware of the penalties applicable to pet owners who do not remove and appropriately dispose of dog droppings and for any failure to maintain control of dogs in their care in public places.
 - 2.4. Do not use detergents for street cleaning of motor vehicles oil and grease.
 - 2.5. Take all reasonable steps to prevent rubbish and pollutants entering the stormwater drains.
3. Actions to be initiated jointly by Council and the ELRGI to be in the form of Council funded leaflet preparation with distribution by committee volunteers to all households in September of each year. This will be supported with back-up information in periodic newsletters published and distributed by the committee of Encounter Lakes Residents Group.

Land Reserve Maintenance

1. When works are required consideration should be given to Councils Recreation and Open Space Strategy, Asset Management Plans, Long Term Financial Plan and Capital Works Program and to this management plan.

Under the agreement between the Joint Venture and Council, Encounter Lakes was developed with its lake system and land reserves as a high standard residential development. The agreement made provision for the land reserves to be maintained to the same high standard as the developer maintained them during the maintenance period. Franklin Island land reserves will be maintained to the same standard.

2. Council will apply its Class A and Class B Reserve Maintenance Standards to the reserve areas and street entry points shown in Appendix 8 “Encounter Lakes/Franklin Island Land Reserves” so that a common and uniform standard is applied to all reserves. Council will meet its obligations under the agreement following handover from the developer by performing the required work to those standards which are attached:

2.1. Lawns/Turf

- Mow 1 to 2 weekly during the months of October to April inclusive.
- Mow 2 to 3 weekly in all other months.
- Edging to be carried out with each mowing, including around signs.
- Watering as necessary to promote good lawn health.
- Fertilise each year during spring.
- Replace any dead or badly worn areas each October and March.

2.2. Garden Areas

- Water trees and shrubs to ensure that good plant health is maintained.
- Prune trees as required after inspection for such need being undertaken not less frequently than 12 monthly.
- Remove or cut back creeper or other plant overgrowth from garden beds, pathways and the lake rock revetment in the months of March and October of each year.
- Weed by hand (where poisoning is inappropriate) all garden beds bi-monthly.

2.3. Irrigation

- Maintain all pipes, hoses and sprinklers in good working order and carry out any required repairs immediately to ensure that effective watering is maintained without unnecessary water wastage.
- Automatic watering programs to be seasonally adjusted to maintain a seasonally appropriate watering program to lawns and gardens.

2.4. General

- Any playground equipment is to be maintained in a safe condition, and is regularly inspected to ensure it complies with relevant Australian Standards.
- Structures such as shelter sheds, toilet/change-rooms, observation platforms, bollards and attached rope, seat, bins, signs, or other fixtures are to be maintained to a high



standard with repairs, painting and/or other replacement requirements being carried out within 30 days following inspections in October of each year by a delegated member of Council staff.

- Vandalism repairs/replacements to be attended to urgently but in any event to be no longer than five working days from time of reporting.
- A litter pick should occur twice weekly from October to March inclusive and weekly during all other months.

3. Council will also regulate and enforce the conditions of use of reserves (inclusive of lakes/waterways) by:

3.1. Requiring commercial users and community groups to make license/permit applications for use of reserve areas with payment of a fee which may be determined as appropriate by Council. The granting of license is to be conditional upon the applicant/s providing evidence of Public Liability cover in the joint names of the applicant/s and the City of Victor Harbor for a sum determined by Council to indemnify it against claims by third parties for bodily injury or property damage arising out of any occurrence involving the activities specified in the license approval.

3.2. Preventing access by motor vehicles or parking of trailers or any other vehicle on reserve areas unless it is a condition of the issue of license and issuing expiation notices to offenders.

3.3. Where deemed by Council as being appropriate, taking action to fine/prosecute dog owners who:

- Do not maintain control of their animals and keep them on a leash in a public place;
- Do not remove and correctly dispose of their animals droppings;
- Allow animals to enter the lake.

3.4. Ensuring that adjoining owners and users of reserve areas do so in a manner that does not affect the safety, amenity, or quality of use by others.

Roadways, Traffic and Pedestrian Management

1. The Encounter Lakes/Franklin Island residential development is comprised principally of detached dwellings and a range of other dwelling types at low to medium densities. The use of the lake and reserve areas is to remain compatible with the residential amenity of the locality.

2. In the absence of footpath construction it is incumbent upon Council to ensure that safe use of the roadways is provided for the mix of vehicular and pedestrian traffic. Council will therefore apply the following management strategies:

2.1. Regulate parking under Section 458 of the Local Government Act (By-Law No.5)

2.2. Not allow vehicles greater than six (6) metres in length to be parked on the roadway for any period of time exceeding that permitted by the Road Traffic Act and Council By-Laws.

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- 2.3. Prevent vehicular parking on any reserve area unless a license has been issued by Council that permits such parking.
 - 2.4. Parking infringement notices will be issued by a Council Authorised Officer where offences occur.
 - 2.5. Roadside and kerbside road markings, roundabout constructions and approaches and road safety indicator signs are to be maintained pursuant to the requirements of the Road Traffic Act and Local Government Act.
 - 2.6. Regulate that a minimum one (1) metre set-back be devoid of any vegetation, other than lawns and Council street tree plantings, from the roadway roll-over kerbing forward to private property boundaries to provide pedestrian safe haven from vehicular traffic. Council will serve notice on property owners to clear and remove vegetation from this one metre set-back area within 30 days of service of such notice. In the event that no action is taken by the property owner Council is to undertake the work with cost recovery from the property owner.
 - 2.7. Maintain road surfaces and engineering standards appropriate to the class and types of vehicular use.
 - 2.8. Conduct ongoing traffic impact studies in conjunction with the committee of the ELRGI and initiate mutually agreed actions.

Emergency Procedures

1. This section of the management plan focuses on the procedures to be applied by Council in the event that contingency plans need to be implemented when circumstances of an unpredictable nature give rise to a threat to property or human life.

It may be necessary under a variety of circumstances to involve executive Council staff, State Emergency Service (SES), SA Ambulance, SA Police, CFS/MFS, SA Power Networks (Formally ETSA) Utilities, EPA, contractors responsible for the lake water control systems, and members of the committee of the Encounter Lakes/Franklin Island Residents' Group to respond to an emergency situation.

Primary responsibility rests with Council to ensure that a modus operandi is in place to deal with contingencies of an unforeseen nature. In an emergency the following process is to be followed by Council with discretion being exercised as may be necessary to deal with the situation in the most effective and appropriate manner:

Refer to Appendix 11 – Encounter Lakes/Franklin Island Emergency Procedure – Contamination of Waterway.

1.1. Contamination of the Waterway

- Immediately contact an executive member of the committee of the ELRGI to advise details of the contamination.
- Determine the level of contamination and the closure type being for primary contact recreational water use and/or incidental use (secondary contact). Whenever it might be appropriate to do so, ban the taking of scale fish and shellfish from the lake. Lake residents are encouraged to advise the person/s involved in the activity.
- Arrange the placement of the relevant lake closure sign on public beach areas and other access points at reserves with water frontages together with safety bunting or PVC ribbon across the beach fronts to minimise the possibility of continued use of the waterway.
- Contact local schools, nearby shops and other known group-users of the lake to inform them of its closure.
- Contact and request local community radio stations to broadcast the closure of the lake.
- Take all reasonable steps to identify the cause and isolate the source of contamination.
- Liaise with Council's Environmental Health Officer, EPA and other relevant health authorities, and continue to monitor the contamination with the aim of minimising any health risks to residents and the public.
- Ensure that a record is maintained of all tests leading up to the contamination and those that follow, with such tests and the results being retained for ten (10) years as required under Clause 6.6 of Lake Waterway Management.
- Council will prepare and undertake the letterbox distribution, and if required and mutually agreed upon, will seek assistance from the committee of the ELRGI to inform residents of Encounter Lakes and Franklin Island of the closure of the waterway.
- Promptly advise an executive committee member of the ELRGI when the lake is declared to be again safe for use.
- Arrange removal of all warning signs, safety bunting and PVC ribbon from beaches and reserves.



APPENDIX 1

CITY OF VICTOR HARBOR PUBLIC CONSULTATION POLICY



POLICY

Public Consultation Policy

Policy Category:	Statutory Policies and Codes
Department / Officer	Governance/Chief Executive Officer
Date Adopted	26 April 2000
Date/s Reviewed	June 2001; May 2002, July 2003, June 2004, November 2005, November 2007, 18 October 2010, 17 December 2012; 27 May 2019
Review Frequency	As required and at least biennially
Strategic Plan Reference	Requirement under Section 50 of the Local Government Act; Community Plan & Strategic Direction 2016-2020 – Objective 5 An innovative Council empowering the community, Approach 5.2 Encourage active citizenship and community pride, 5.2.4 Engage with the broader community to seek their views and expectations

1. Purpose

The purpose of this policy is to contribute to a culture of effective community engagement, to enhance decision making and ensure that Council meets its obligations under the Local Government Act 1999 (the Act) and other relevant Acts.

This Policy outlines the minimum communication and consultation requirements under the Act that Council is required to comply with.

Council's Community Engagement Toolkit is designed to further contribute to effective engagement, by providing guidelines, structure and process that ensures consistent, meaningful and effective community engagement is achieved, beyond the requirements of the Act.

2. Scope

This policy will apply to public consultation processes required or undertaken under the Local Government Act 1999.

It is not intended that this policy replace Council's consultation requirements under other legislation, e.g. Development Act 1993 or Planning, Development and Infrastructure Act 2017.

3. Policy Statement (Summary)

The City of Victor Harbor is committed to open, accountable and responsive decision making achieved by effective communication and consultation between Council and the community.

Council has developed and is committed to five principles that underpin its approach to community engagement:

1. Community Participation

We are committed to including, informing and involving our community in local decision making from project planning through to delivery.

2. Open and Accountable

We will provide clear and easy to understand information that will inform our community and encourage meaningful engagement.

3. Accessibility

Our community will be able to access information in a variety of ways.

4. Careful Planning and Evaluation

We will carefully plan community engagement activities and evaluate all feedback to meet the needs of our community.

5. Closing the Loop

We will inform our community of our decisions and outline how feedback was considered.

This policy draws on the International Association for Public Participation's engagement spectrum, which the council has adapted to fit our local context and expectations. The levels of community engagement include:

- **Informing** – one-way communication providing balanced and objective information to assist understanding about something that is going to happen or has happened.
- **Consulting** – two-way communication designed to obtain public feedback on a proposal, initiative or issue to inform Council decision making.
- **Active Participation** – Ongoing communication, where community members and Council are working together to ensure concerns and aspirations are understood. While the decision ultimately rests with Council, the community is involved in identifying alternatives and preferred solutions. This may also include involving the community in the development of proposals and options.

Where the Local Government Act prescribes that public consultation is necessary, Council will obtain and consider community contributions and relevant information to ensure that any decision made is in the best interests of the community. However, it is important to note that having taken into account the submissions received, any final decision rests with Council.

4. Legislation and Compliance

Section 8 of the Act (Principles to be observed by a council) outlines, amongst other things, Council's responsibilities to provide open, responsive and accountable government.

More specifically, Section 50 requires Council to prepare and adopt a public consultation policy that sets out the steps that the Council must follow in cases where the Act requires that a council must follow its public consultation policy, to ensure it effectively consults with stakeholders and the community.

The Act prescribes the requirement for public consultation in numerous provisions of the Act. **Section 6** of this Policy lists the sections that specify when public consultation is required under the Act, and the consultation steps that need to be taken relevant to each section. Where the Act specifies that Council needs 'to follow the relevant steps set out in its public consultation policy', Council will follow the steps indicated in the relevant column. Where deemed appropriate by the Administration, or requested by Council, further public consultation may be undertaken that exceeds the requirements prescribed by the Act.

5. Definitions

The terms below are defined as:

The Act is the Local Government Act 1999 (SA).

Public or Community includes individuals or groups who have an interest in Council's decision-making and who are affected by Council decisions. These individuals or groups may be identified as residents and voters, ratepayers, business owners, Council customers, contractors and suppliers, community interest groups, agencies and hard to reach groups.

Engagement describes varying levels of participation in public consultation processes.

Public Consultation is a planned process of engagement where information is provided, and community and stakeholders are formally invited, as per the relevant requirements in the Act, to comment about matters on which Council will deliberate.

6. Policy Content

The following table outlines Council's legislative requirements under the Local Government Act 1999.

Legend:

1. Carrying out representation reviews (Section 12(5))
2. Considering change of status of council or name change (section 13)
3. Determining the manner, places and times of its principal office (section 45)
4. Adopting or varying a public consultation policy (section 50)
5. Altering the Code of Practice relating to the principles, policies and procedures that council will apply to enable public access to Council and Committee Meetings, their minutes and release of documents (section 92)
6. Strategic Management Plans (Section 122)
7. Council's Annual Business Plan (section 123)
8. Changing or amending council's rating policy (section 151)
9. Basis of differential rates (section 156)
10. Excluding land from classification as community land (section 193)
11. Revoking the classification as community land (section 194)
12. Adopting, amending or revoking a management plan for community land (section 197)
13. Amendment or revocation of a management plan¹ (section 198)
14. Alienating of community land where the management plan does not allow it² (section 202)
15. Alienating roads (section 223)
16. Planting vegetation where it will have a significant impact on residents, the proprietors, or nearby residents³ (section 232)
17. Making bylaws (section 249)
18. Making orders (section 259)

¹Public consultation is not required unless the amendment has no impact or no significant impact on the interests of the community.

²Public consultation is not required if the grant of a lease or licence is authorised in an approved management plan for the land and the term is five (5) years or less; or the regulations provide for an exemption from compliance with the public consultation policy.

³Public consultation is only required if the Council considers that the vegetation may have a significant impact on residents, the proprietors of nearby businesses or advertisers in the area.

Consultation steps	1. Carrying out an evaluation review (section 13(6))	2. Considering change of status of council or name change (section 13)	3. Determining the manner, persons and times of its principal office (section 46)	4. Adopting or varying a public consultation policy (section 47)	5. Code of Practice for Access to Meetings, their minutes and reports of decisions (section 42)	6. Strategic Management Plan (section 12)	7. Annual Business Plan (section 12)	8. Rating Policy (section 45)	9. Rules of Differential Rates (section 45)	10. Excluding land from classification as community land (section 10)	11. Revising the classification of community land (section 10)	12. Adoption, amendment or revocation of community land (section 10)	13. Acquisition or creation of a new or existing community land (section 10)	14. Acquisition of community land where the instrument does not allow it (section 10)	15. Acquisition (section 22)	16. Powers (section 22)	17. Making bylaws (section 24)	18. Making orders (section 25)
Council will provide public notice of the options for consideration	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Information provided on a City of Victor Harbor website	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Information is available for viewing at the Civic Centre	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Notice is published in a local newspaper (The Times) circulating the City of Victor Harbor council area	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Provide a minimum of 21 days for people to make submissions to council (unless otherwise stated)	6 weeks	3 weeks	6 weeks	✓	1 month	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Receipt of submissions by City of Victor Harbor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Submissions to be considered by council in decision making	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Inform public of outcome	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Public meeting (as determined by legislation)							✓	✓	✓	✓								
Provide opportunity for people to attend a Council meeting or Council Committee meeting	✓	✓	✓				✓											
Submit report and proposal/other to Minister or Government Department as required	✓	✓										✓						
Give written notice to agencies that are under regulations to be notified of the proposal															✓			

7. Implementation/Delegations

This Policy applies to Elected Members, staff, contractors and agents or consultants acting on behalf of Council.

Council is the elected body charged with responsibility for making decisions on behalf of the community. Under certain circumstances Council may delegate decision-making to Council officers.

The Chief Executive Officer supported by staff and/or external contractors, is responsible for implementing and reviewing this Policy, and reporting outcomes of consultations and review(s) of this Policy to Council.

Directors are responsible for ensuring their staff comply with this Policy and make use of the support mechanisms and tools provided to guide implementation.

The Communications Officer is responsible for providing advice and assistance to the community and stakeholders internal and external to City of Victor Harbor and keeping this policy and tools up to date, visible and readily accessible.

8. Related Documents

Community Engagement Toolkit

9. Availability of Policy

This policy is available on Council's website at www.victor.sa.gov.au. It may also be inspected or purchased at the Principal Office of the Council at 1 Bay Road, Victor Harbor.



APPENDIX 2

PLAN AND BOUNDARIES OF ENCOUNTER LAKES/FRANKLIN ISLAND RESIDENTIAL DEVELOPMENT





APPENDIX 3

PROCEDURES FOR UNDERWATER & GENERAL INSPECTIONS OF THE LAKE CONTROLS & OTHER ASSOCIATED INFRASTRUCTURE

*“All maintenance, inspection and diving work is required by WHS legislation to be presented as **Safe Work Method Statement/s and Safe Operating Procedures**. Providers of these services to Council must furnish required WHS documentation and present it to council for review and approval prior to any works commencing.”*

City of Victor Harbor

PROCEDURE

Procedure Name **INSPECTION AND MAINTENANCE OF LAKE WATER CONTROL MECHANISMS**

Procedure No

Department/Officer

Policy Reference

File Reference **CO.187.3**

Date Adopted **19 November 2010**

Dates Reviewed

INSPECTION AND MAINTENANCE OF LAKE WATER CONTROL MECHANISMS

1. OUTLINE OF INSPECTION

The operation of the seawater control system is essential to ensure that the lake level is regulated and water exchange rates are effectively delivering high water quality in Encounter Lakes. A number of components of the system are permanently or regularly submerged in seawater. These components require regular checking and maintenance to ensure that they remain in good condition and continue to operate to maximum design performance. Inspections also look for signs of longer term changes in general condition of the lake (sediment types, fouling growth and other marine life) that might indicate longer term chronic problems that might not necessarily be detected during inspections at specific times.

Inspections are to take place annually between 1 October and 30 November, or more frequently if water flow characteristics necessitate additional inspections.

2. REPORTING FORMAT

A detailed written report to be submitted following each annual inspection and to include a summary of maintenance work actually performed or work considered necessary to ensure that maximum performance parameters are maintained.

3. SEA INTAKE

The location of the sea intake is in the shallows of a temperate water limestone reef. Part of the normal flora of the area is the large brown kelp *Ecklonia radiata* which will find its way into the sea intake which provides an ideal secure substrate for growth. This will result in a significant reduction in water flow and adversely affect the water level, exchange rates and quality within the lake. Although a small amount of kelp growth may be useful to help prevent the entry of seaweed, sediment and debris during winter months, it is critical that excess growth be regularly removed. Cleaning is best done in late spring or summer so that there is some regrowth before rough winter weather.

Inspection and maintenance of the sea intake to include:

- Inspection and general integrity of the off-shore sea intake;
- Inspection of sediment build-up and sea-bed stability in front of the sea intake;
- Removal of algal growth and debris accumulation from the intake grid and from inside the sea intake chamber;
- Inspection of the ducting and joints to a distance of not less than 20 metres to determine condition, gaps between pipe sections, sediment build-up and fouling growth.
- Inspection of intake grids and fasteners for corrosion and security;
- Inspection of the sea intake navigation aid for integrity of underwater fittings;

Replacement of worn or unsafe sea intake inspection hatch securing bolts.

4. CONTROL STRUCTURE

The control structure houses the gates and sensors that regulate the flow of seawater into and around the lake. The proper operation of this structure is critical to the maintenance of good water quality in the lake. Figure 3.1 shows the arrangement of the gates and ducts of the control structure.



Figure 3.1
Control structure, gates,
duct layout and water flow

Inspections associated with the control structure to include;

- A check for proper operation of all control gate mechanisms;
- Inspection of gate mechanisms and fittings for integrity, corrosion and wear;
- Replacement of sacrificial zinc anodes and greasing of the gate spindle shafts;
- Inspection of the submerged interior of the control structure for condition and fouling growth;
- Inspection to a distance of not less than 90 metres of the sea intake duct and about 20 metre of the inlet/outlet ducting and joints for condition, gaps, sediment build-up and fouling growth;
- Cleaning of lake and sea level sensor stilling tube ports.

5. **LAKE INLET**

The lake inlet consists of a sump and cover grid built into the side of the last stage of the lake. Inspections to include:

- Inspection of the interior of the lake inlet sump for sediment and rocks, removal of accumulated drift algae from the inlet grid;
- Cleaning the inlet grid of fouling growth to promote unrestricted water flow;
- Check all fittings and coatings for integrity;
- Inspection to a distance of not less than 20 metres of the ducting and joints for condition, gaps, sediment build-up and fouling growth;
- Clear inlet channel of debris and replace any displaced rip-rap.

6. **CROSS-FLOW DUCTING**

A cross-flow duct runs under a section of the road in Islander Drive in the last stage of the lake. Its purpose is now redundant and inspection of this duct is to focus on the structure integrity including:

- The integrity of the safety cover grids placed over the ducts each side of the bridge;
- Ensure that any water flow through this duct is absolutely minimal as it is important that proper flow around the open section of the lake is not compromised by any opening in the cross-flow duct;
- Inspect the condition of the connecting duct as far as is practical from the outside as entry into the duct should not be possible;
- Clear the inlet channel leading to the duct of debris and replace any displaced rip-rap.

7. LAKE OUTLET

Although the outlet has been in its present location since the lake was constructed, access has become impeded by housing construction. An easement exists on allotment 185, however access may be gained through adjacent properties with the owners permission. Inspections to include:

- Inspection for corrosion and fouling of the grid and clearing any accumulated marine growth to promote unrestricted water flow;
- Check condition and integrity of the stainless steel access hatch bolts;
- Inspect underwater stonework and remove any build-up of nuisance algae;
- Clear the channel leading to the outlet duct of debris and replace any displaced rip-rap.

8. LAKE, BEACHES AND STORMWATER OUTLEETS

Inspection of the lakebed is to be carried out for the purpose of:

- Determining the extent and the removal of litter and debris;
- Ascertaining the variety and health of observed marine life;
- Taking of sedimentary samples from the lakebed for analysis;
- Ensuring that all stormwater outlets are clear of obstructions and litter.



City of Victor Harbor

PROCEDURE

Procedure Name **ENCOUNTER LAKES/FRANKLIN ISLAND INSPECTION & WORK SAFETY PROCEDURES**

Procedure No

Department/Officer

Policy Reference

File Reference **CO.187.3**

Date Adopted **19 November 2010**

Dates Reviewed

ENCOUNTER LAKES/FRANKLIN ISLAND INSPECTION & WORK SAFETY PROCEDURES

INFRASTRUCTURE AND CONTROLS

These procedures apply to the setup and operation of the lake infrastructure and controls for the purpose of underwater and general inspection of the lake controls, gates, sea intake, lake inlet, lake outlet, immediate access points, grids and ducting.

No work should be attempted in or associated with the lake without consideration of the appropriate safety procedures.

Disclaimer:

These procedures are in addition to all applicable workplace health and safety requirements and do not override any such requirements:

The first part of the procedure (#1) relates to the necessary set-up and working conditions. Items must be checked off as they are done.

The second part of the procedures (#2) relates to close off on completion of work and the return of the lake system to normal operating conditions.

SUMMARY AND TRACKING

DATE: _____

Responsible Officer:
Work Description:

Relevant procedures checklist (Identify – tick each relevant procedure)	<input type="checkbox"/>
---	--------------------------

PROCEDURE

	GENERAL	CONTROL	INTAKE	INLET	OUTLET
	1	2	3	4	5
Setup/work #1	<input type="checkbox"/>				
	FIRST				
Completion #2	<input type="checkbox"/>				
	LAST				

Check off on completion of relevant procedure and sign off.

Procedure 1 FIRST on commencement and LAST on completion

Final – Lake secured and normal operation restored.	<input type="checkbox"/>
---	--------------------------

PROCEDURE 1

1.1 GENERAL SHUTDOWN OF WATER CONTROL GATES

This procedure applies for all inspection and work.

The purpose of this procedure is to close off water flow through ducts and structure and to maintain that condition while inspection and work are underway.

Other procedures apply to particular structures.

No work in progress should be left unattended at any time.

Set all gate control switches to MANUAL .	<input type="checkbox"/>
CLOSE ALL (4) GATES - Press all four " CLOSE " buttons.	<input type="checkbox"/>
Wait until all gate motors stop running.	<input type="checkbox"/>
Note: (ammeters will drop to zero) and the gate indicator lights show that the gates are closed.	<input type="checkbox"/>
TURN ALL POWER SWITCHES to the " OFF " Position	<input type="checkbox"/>
Place promptly and secure on the switch panel signage that clearly shows the words: "DO NOT OPERATE - MAINTENANCE/DIVING IN PROGRESS"	<input type="checkbox"/>
This should also be marked with the current date.	<input type="checkbox"/>

1.2 COMPLETION (LAST)

This procedure is **LAST** to be carried out and **only after all other** procedures have been completed.

All other procedures completed.	<input type="checkbox"/>
Ensure that all safety grids and covers have been replaced and secured.	<input type="checkbox"/>
Ensure that all personnel area clear of and equipment removed from structures and ducts.	<input type="checkbox"/>
Return all (4) gate power switches to " AUTO " position.	<input type="checkbox"/>

PROCEDURE 2

2.1 CONTROL STRUCTURE WORKS

This procedure applies to works in around the gate control structure.

It is not recommended that all gates or any pair of gates (inlet or outlet sides) are opened or removed at the same time allowing unrestricted water flow.

If this is unavoidable a suitable temporary gate should be installed in the guides over the main sea intake duct opening prior to work on the gates.

Ensure that Procedure 1 is carried out.	<input type="checkbox"/>
Check that the water flow has ceased prior to lifting covers off the control structure.	<input type="checkbox"/>
Remove all covers to allow unrestricted access and good lighting.	<input type="checkbox"/>
Ensure the public is kept outside the defined hazard area.	<input type="checkbox"/>
To prevent dangerous water flow - ensure that a combination of AT LEAST: One INLET gate - (A or B) & One OUTLET gate - (C or D) ARE CLOSED AT ALL TIMES	<input type="checkbox"/>
If some water flow is needed to clear murkiness during inspection or works gates may be raised a MAXIMUM OF 100 millimetres or for about 20 seconds of gate operation.	<input type="checkbox"/>
Ensure gate switches are returned to the "OFF" position after each gate operation.	<input type="checkbox"/>
If flushing of ducts is to be done with the control structure covers removed.	<input type="checkbox"/>
Ensure that all personnel are outside the hazard safety barrier around the control during periods when gates are open.	<input type="checkbox"/>

2.2 CONTROL STRUCTURE CLOSE - OFF

This procedure is for closing up the control structure.

Procedure 1 - Should be completed **after** this and **all other** procedures have been completed.

Ensure that all personnel and equipment are removed from and clear of the gates - structures and ducts.	<input type="checkbox"/>
Ensure personnel are well clear during lifting and replacement of concrete lids.	<input type="checkbox"/>
Replace all safety covers.	<input type="checkbox"/>
Ensure all inspection hatches are locked.	<input type="checkbox"/>
Refer to Procedure 1 - after all other procedures are complete.	<input type="checkbox"/>

PROCEDURE 3

3.1 SEA INTAKE WORKS

This procedure applies to work in all the offshore sea-intake and ducts.

Ensure that Procedure 1 - is carried out prior to putting to sea.	<input type="checkbox"/>
Check that water flow has ceased prior to undoing inspection hatch fasteners and removing hatch before diving for work inside the sea intake box ducts.	<input type="checkbox"/>
ON REMOVING THE INSPECTION HATCH	<input type="checkbox"/>
Ensure it is placed so as to allow easy entry and also that it will not be disturbed by swells.	
WHEN ACCESSING DUCTS	<input type="checkbox"/>
Ensure there is no water flow prior to removing only one of the two panels of the inner safety grid.	

3.2 SEA INTAKE CLOSE - OFF

This procedure is for closing up the sea intake. Procedure 1 should be completed **after** this and **all other** procedures have been completed.

Ensure that all personnel and equipment are removed from and clear of	<input type="checkbox"/>
---	--------------------------

structures and ducts.	
Replacing and securing inner safety grid and outer inspection hatch.	
Refer to Procedure 1 after all other procedures are completed.	

PROCEDURE 4

4.1 SEA INLET WORKS

This procedure applies to works in and around the Lake Inlet and ducts where water enters the lake.

Ensure Procedure 1 is carried out prior to accessing the Lake Inlet and associated channel and duct.	<input type="checkbox"/>
BEFORE DIVING TO WORK INSIDE THE LAKE INLET BOX AND DUCTS Check that water flow has ceased prior to undoing inspection hatch fasteners and opening the hatch.	<input type="checkbox"/>
Ensure that public is outside the hazard barrier while works are in progress.	<input type="checkbox"/>

4.2 LAKE INLET CLOSE - OFF

This procedure is for closing up the lake inlet.

Procedure 1 should be completed **after** this and **all other** procedures have been completed.

Ensure that all personnel and equipment are removed from and clear of structures and ducts.	<input type="checkbox"/>
Close and secure the inspection hatch.	<input type="checkbox"/>
Refer to Procedure 1 After all other procedures are complete.	<input type="checkbox"/>

PROCEDURE 5

5.1 SEA OUTLET WORKS

This procedure applies to works in and around the Lake Outlet and ducts where water leaves the lake.

Ensure Procedure 1 is carried out prior to accessing the Lake Outlet and associated channel and duct.	<input type="checkbox"/>
BEFORE DIVING TO WORK INSIDE THE LAKE OUTLET BOX AND DUCTS Check that water flow has ceased prior to undoing inspection cover securing bar fasteners and opening cover.	<input type="checkbox"/>
Ensure safety is exercised within the hazard barrier while work is in progress.	<input type="checkbox"/>

5.2 LAKE OUTLET CLOSE - OFF

This procedure is for closing up the lake outlet.

Procedure 1 should be completed **after** this and **all other** procedures have been completed.

Ensure that all personnel and equipment are removed from and clear of structures and ducts.	<input type="checkbox"/>
Close and secure the inspection cover making sure it is seated properly.	<input type="checkbox"/>
Ensure that nylock-fastening nuts are tight and ca not is removed.	<input type="checkbox"/>
Refer to Procedure 1 after all other procedures are complete.	<input type="checkbox"/>



DANGER

DO NOT OPERATE

ANY

CONTROLS

MAINTENANCE OR DIVING IN PROGRESS

SAFETY REQUIREMENT

WORK/DIVING ON THE LAKE STRUCTURES

&

DUCTS CURRENTLY IN PROGRESS

DATE

ENCOUNTER LAKES & FRANKLIN ISLAND

WORKS OVERVIEW

The purpose of this overview is to ensure that works carried out on the systems when servicing and or effecting repairs to the water control gates installed to regulate water replenishment and flushing of the Encounter Lakes and Franklin Island lake.

It is important that there is a clear understanding of all systems, work procedures, plant and equipment needed to minimise the risk exposures to persons whilst undertaking those tasks.

COMPLIANCE EXPECTATIONS

It is essential that work health and safety legislation is complied with, safety risk management undertaken and procedures adhered to:

- a) the effectiveness of systems;
- b) degree of compliance with those systems;
- c) the system suitability to operations; and
- d) legislative compliance.

Work Health & Safety Regulations 2012

Definition:

confined space means an enclosed or partially enclosed space that—

(a) is at atmospheric pressure during occupancy; and

Work Health, & Safety Regulations 2012

Part 1—Preliminary

Division 1—Preliminary

18 This version is not published under the *Legislation Revision and Publication Act 2002* [25.11.2010]

(b) is not intended or designed primarily as a place of work; and

(c) may have restricted means of entry and exit; and

(d) may—

(i) have atmospheric contaminants or an unsafe oxygen level; or

(ii) cause engulfment,

and may include (but is not limited to)—

(e) a storage tank, tank car, process vessel, boiler, pressure vessel, silo or other tank-like compartment;

(f) an open-topped space (such as a degreaser or pit);

(g) a pipe, sewer, shaft, duct or similar structure;

(h) a shipboard space entered through a small hatchway or access point, or a cargo tank, cellular double bottom tank, duct keel, ballast or oil tank or other void space, other than a dry cargo hold;

Hazard identification and risk assessment

43—Hazard identification and risk assessment

- (1) An employer must identify any confined space associated with the performance of work and any reasonably foreseeable hazard associated with working in the confined space.
- (2) An employer must ensure, before any work which involves entry into a confined space is commenced for the first time, that a risk assessment is undertaken by a competent person.
- (3) A risk assessment undertaken for the purposes of sub-regulation (2) must at least include an assessment of the following:
 - (a) if the work can be carried out without the need to enter the confined space;
 - (b) the nature of the confined space and the work required to be carried out;
 - (c) the various ways in which the work could be carried out;
 - (d) the risks associated with the method of work selected, the plant to be used, and any potentially hazardous condition that may exist inside the confined space;
 - (e) the need for emergency and rescue procedures.
- (4) An employer must ensure that the risk assessment required under sub-regulations (2) and (3) is revised whenever there is evidence that indicates that it is no longer valid.
- (5) An employer must ensure that a report is prepared on any risk assessment under this regulation and that the report is retained for at least 5 years from the date of the last entry in the report.

Division 3—Diving

236—Purpose

The purpose of this Division is to ensure that work involving the use of underwater breathing apparatus for the purpose of construction diving work is carried out so as to eliminate or minimise risks to the health or safety of any person who is involved in the performance of the work, or who is in the vicinity of the work.

237—Interpretation

In this Division—

construction diving work means work that involves the use of underwater breathing apparatus performed in, or in connection with—

- (a) the construction, repair, maintenance, survey or demolition of any building, structure shaft or tunnel; or
- (b) a boat, ship, slipway, mooring or breakwater; or
- (c) dredging; or
- (d) the placing, laying, inspection or recovery of any pipe or cable; or
- (e) the placing of explosives.

238—General requirements

- (1) All construction diving work must be carried out in accordance with the requirements of AS/NZS 2299 *Occupational diving operations*.
- (2) A person must not, except with the approval of the Director and subject to any reasonable conditions imposed by the Director, make a dive, or instruct/allow another person to dive, to a depth greater than 50 metres.

(3) An application to the Director for an approval under sub-regulation (2) with respect to an employee making a dive must be made by his or her employer.

(4) A person must not contravene or fail to comply with a condition imposed by the Director under sub-regulation (2).

Maximum penalty: Division 6 fine.

44—Control of risk

(1) An employer must ensure before a person enters a confined space, so far as is reasonably practicable—

(a) that the confined space contains a safe oxygen level; and

(b) that any atmospheric contaminant in the confined space is reduced to below the relevant exposure standard (taking into account NOHSC's *Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment*); and

(c) that the concentration of any flammable contaminant in the atmosphere of the confined space is below 5% of its LEL; and

(d) that the confined space is free from extremes of temperature; and

(e) that appropriate steps are taken to control any risk associated with the presence of any vermin; and

(f) that all potentially hazardous services, including process services, normally connected to the confined space are positively isolated in order to prevent—

(i) the introduction of any material, contaminant, agent or condition harmful to a person in the confined space; and

Work Health & Safety Regulations 2012

Part 2—General workplace

Division 4—Confined spaces

50 This version is not published under the *Legislation Revision and Publication Act 2002* [25.11.2010]

(ii) the activation or energising of any equipment or service that may pose a risk to the health or safety of a person in the confined space.

(2) If a confined space must be cleared of contaminants in order to comply with sub-regulation (1), the employer must ensure—

(a) that the contaminants are removed with the use of a suitable purging agent; and

(b) that pure oxygen, or a gas mixture which has oxygen in a concentration greater than 21% by volume, is not used for purging or ventilation.

(3) If it is not reasonably practicable to provide a safe oxygen level, or atmospheric contaminants cannot be reduced to safe levels, an employer must ensure that a person does not enter a confined space unless the person is equipped with suitable respiratory protective equipment.

(4) If a need to enter a confined space has been identified and appropriate risk assessment has occurred, an employer must provide and maintain equipment that is appropriate to the work to be carried out, including equipment for—

(a) personal protection; and

(b) rescue; and

(c) first-aid; and

(d) fire suppression.

(5) An employer must ensure, before a person enters a confined space, and while a person is within a confined space, that appropriate signs and protective barriers are erected to prevent unauthorised persons from entering the area.

(6) An employer must ensure that atmospheric monitoring of the confined space that is consistent with the risk assessment is carried out (if required by virtue of that assessment).

45—Entry permit

(1) An employer must not allow a person to enter the confined space except with express permission to do so (an **entry permit**).

(2) An employer must ensure that an entry permit under sub-regulation (1)—

(a) is in writing; and

(b) includes any precautions or instructions necessary for safe entry to the confined space and the performance of the relevant work; and

(c) is kept for a period of at least 1 year.

(3) 1 permit may relate to—

(a) the person responsible for the direct control of the work; and

(b) the persons who must carry out the work.

(4) An employer must ensure that each person who must carry out the work described in the entry permit is advised of, and understands, the contents of the entry permit.

25.11.2010—Work Health & Safety Regulations 2012

General workplace—Part 2

Confined spaces—Division 4

[25.11.2010] This version is not published under the *Legislation Revision and Publication Act 2002* 51

(5) An employer must ensure that a written acknowledgment of the completion of the work in the confined space is prepared and that all persons involved in the work have left the space before the confined space is returned to normal use.

46—Control of fire and explosion risk

(1) If the concentration of flammable contaminant in the atmosphere of a confined space is found to be between 5 and 10% of its LEL, an employer must ensure that a person does not enter or remain in the confined space unless a continuous monitoring and suitably calibrated flammable gas detector is used in the confined space while the person is present in the confined space.

(2) If the concentration of flammable contaminant in the atmosphere of a confined space is found to be 10% or more of its LEL, an employer must ensure that no person is allowed to enter or remain in the confined space.

(3) An employer must ensure that no work is carried out within a confined space, or on the outside surface of a confined space—

(a) if the work or any plant is likely to cause or create a risk to the health or safety of a person in the confined space; or

(b) if the work or any plant is likely to cause or create a risk of a fire or explosion.

47—Rescue arrangements

(1) If a risk assessment (or a review of a risk assessment) indicates a risk to health or safety, an employer must ensure that no person enters a confined space unless a person or persons are on stand-by outside the confined space to render assistance in the event of an emergency.

(2) An employer must provide appropriate arrangements for the effective rescue of a person from a confined space in the event of an emergency, including—

(a) openings for entry and exit to the confined space of adequate size to permit rescue of any person who may enter the confined space; and

(b) procedures to prevent obstruction of the openings by fittings or equipment which could impede rescue,

or, where compliance with paragraphs (a) and (b) is not reasonably practicable, by the provision of a suitable alternative means of rescue.

48—Education and training

(1) An employer must provide suitable and adequate training for each employee who—

(a) is required to carry out work in or on a confined space; or

(b) undertakes a risk assessment of a confined space; or

(c) issues an entry permit; or

(d) designs or lays out a workplace that incorporates, or could incorporate, a confined space; or

(e) manages or supervises persons working in or near a confined space; or

(f) maintains equipment used for or during work in a confined space; or

(g) purchases, distributes or maintains personal protective equipment for use in a confined space; or

(h) is on stand-by during the performance of work in a confined space; or

(i) could be involved in a rescue or first-aid procedure involving work in a confined space.

(2) The training must, insofar as is relevant to the performance of the particular work and the employee's duties, at least relate to the following:

(a) the hazards associated with confined spaces;

(b) risk assessment procedures;

(c) control measures for confined spaces;

(d) the selection, use, fit and maintenance of safety equipment.

(3) An employer must keep a record of the training provided to an employee for the purposes of this regulation, and—

(a) keep the record for at least 5 years from the date of the training; and

(b) make the record available, on request, to the relevant employee and an inspector under the Act.

Note—

The following standards are approved codes of practice under the Act and are relevant to the subject-matter of this Division:

(a) AS/NZS 1715 Selection, use and maintenance of respiratory protective equipment

(b) AS/NZS 1716 Respiratory protective devices

(c) AS 2865 Confined spaces

COMPLIANCE REQUIREMENTS

- Install signage NO UNAUTHORISED ACCESS CONFINED SPACE.
- Erect a hazard security-fencing barrier to exclude unauthorised personnel.
- Ensure personnel have a reliable means on site of contacting the SAMFS – Ambulance – appropriate authorities – and other emergency services.
- Ensure that a mechanically certified capacity crane lifts chamber covers.
- Ensure that an accredited licensed crane driver and accredited rigger perform the chamber cover removal/replacement.
- Ensure the crane provider supplies accreditations and work procedure for approval by the principal contractor prior to commencement on-site.
- Install a portable scaffold to serve as a work platform when inspections and repairs occur within the chamber.
- Ensure that entry control boards and procedures are adhered to.
- Ensure that an accredited first aider/safety officer is in attendance during the periods of work.
- Ensure that safety teams are provided to initiate immediate rescue and initial first aid.
- Provide a suitable means of recovering disabled persons from the chamber.
Ensure the principal contractor provides a documented work procedure to be assessed and validated prior to commencement of site works.
- Ensure personnel working within the chamber are wearing a safety harness and it is connected via a shock absorber lanyard to the recovery tripod.
- Ensure diving services supplier amend the diving program documentation to include recovery procedures and personnel to initiate rescues at the entry control point during diving work and have those procedures submitted to the Department for Industrial Affairs prior to work being undertaken.

WORK SCOPE

To safely manage the following activities associated with works performed in or around the flow control chamber for the Encounter Lakes include:

- Inspection.
- Servicing
- Maintenance.
- On-site mechanical and electrical works.
- Chamber entry and exit.
- Diving.

LEGISLATIVE AUDIT CRITERIA

Comply with the previously detailed South Government Acts, Regulations, Approved Codes of Practice and additionally regulated Australian Standards including those detailed below:

- AS/NZS1891.1 2007 – “Industrial fall-arrest systems and devices – Harnesses and ancillary equipment” (with 2 amendments dated 2007 and 2008).
- AS/NZS 1891.3: 1997 “Industrial fall-arrest systems and devices – Fall arrest devices”

- AS/NZS 1892.1: 1996 “Portable ladders – Metal”
- AS/NZS 1892.2: 1992 “Portable ladders – Timber”
- AS/NZS 1892.3: 1996 “Portable ladders – Reinforced plastic”
- AS/NZS 1892.5: 2000 “Portable ladders – Selection, safe use and care”
- AS/NZS 1891.4: 2009 “Industrial fall-arrest systems and devices – Selection, use and maintenance”
- AS/NZS 3000: 2007 “Electrical installations (known as the Australian/New Zealand Wiring Rules)” (with 1 amendment dated 2009)
- AS/NZS 2299.1: 2007 “Occupational diving operations – Standard operational practice”
- AS/NZS 2299.1: 2007 “Occupational diving operations – Standard operational practice Supplement 1”
- AS/NZS 2299 “Diving medical examination forms (Supplement to AS/NZS 2299.1: 2007)”
- AS/NZS 2299.2 2002 “Occupational diving operations – Scientific diving”
- AS/NZS 2299.3: 2003 “Occupational diving operations – Recreational industry diving and snorkelling operations”
- AS/NZS 2299.4: 2005 “Occupational diving operations – Film and photographic diving”
- AS 2815.1: 2008 “Training and certification of occupational divers – Occupational SCUBA diver – Standard”
- AS 2815.2: 1992 “Training and certification of occupational divers – Air diving to 30m”
- AS 2815.3: 1992 “Training and certification of occupational divers – Air diving to 50m”
- AS 2815.4: 1992 “Training and certification of occupational divers – Bell diving”
- AS 2815.5: 2006 “Training and certification of occupational divers – Dive supervisor”
- AS 2865: 2009 “Confined spaces”

Current copies of these standards should be available for reference and where appropriate nominated in Standard Operating Procedures.

WORK SITE

The flow chamber structure and associated supply-piping falls clearly within the definition under the Work Health and Safety Regulations of a confined space.

The flow chamber comprises of a concrete pit subdivided into three chambers fitted with a total of two main sluice gates and two back up gates. Seawater either flows into the chamber via a supply pipe commencing 250 metres off shore through two gates then into the lake, or alternatively the water flushes out of the lake via the same system allowing water quality maintenance and appropriate lake level to be maintained regardless of ocean tidal movement.

The gates are raised/lowered by way of individual electric motors interconnected to the gates by way of Archimedes screw drives. The gate/s operation is initiated via switching located upon a control board (illustrated in photograph 1.) installed within an adjacent small steel shed.

Under normal operational conditional access to the chambers is protected by four substantial concrete covers (see photograph number 2), each of which is fitted with small lockable inspection hatches.

DAY TO DAY OPERATION – RISK

The day to day operation of the flow control gates does not necessitate any access to the flow control chamber proper apart from:

- Provision of a documented description of the gate operational sequence water level monitoring and the methodology involved no other requirements are necessary.
- A documented flow diagram of the operational controls shall be installed to achieve manual control of directional water flows and waters and water level maintenance shall be produced and prominently retained within the control shed.

REGULAR MAINTENANCE – RISK

Regular maintenance schedules shall be prepared by the appropriate contractor and provided to Council.

To test the gate operation requires removal of the small inspection hatches installed within the chamber covers to allow the gate operation to be viewed during the raise/lowering cycles. Additionally water resistant grease is applied to the Archimedes screw drives by way of wiping a grease laden cloth which is attached to a length of conduit thus obviating the necessity to life the principal chambers access cover.

The maintenance procedures to be recorded and documentation to be provided to Council.

GATE SERVICING & REPAIR – RISKS

Inspection and servicing of the system is required every 8-12 months. Prior to any works being commenced one or more chamber covers must be removed. During the removal whilst the chambers are exposed and during replacement the work area and immediate surrounds need to be adequately protected to ensure unauthorised entry onto the work site is prohibited.

As the chamber constitutes a “confined space” there is an obligation to sign post each of the chamber covers “No Unauthorised Access – Confined Space”;

- Sign sizing font style/size colour are to be in accordance with AS1319 Rules for the Design and Use of Safety Signs for Occupational Environment;
- Each gate has been fitted with a lifting lug as depicted in photographs 3 and 4;
- Confirmation that the orientation of the lug is of design specific of the appropriate gauge of material and provides suitable adequacy and integrity of welding is of a quality standard to bear the imposed load of the gate;
- The work and surrounding area to be protected by a safety barrier fence of appropriate design and integrity;
- The work site while work operations are being undertaken an accredited first aider/safety officer is on site.

CHAMBER/S PROPER

The chamber is defined as a confined space/s within the meaning of the Work Health and Safety Regulations. There shall be a means of access or egress provided for there is expected to be about 2.5 metres of present dependent somewhat upon the gates location and tidal influences.

A stable work platform to undertake fitting tasks (for example a portable scaffold) shall be used in the chamber/s on occasions such work is necessary.

Note:

- 1) A portable tripod with an attached chain block of suitable capacity or alternatively fitted with a powered hoist would ensure in an emergency the retrieval task is achieved in a timely manner.
- 2) Fitters whilst within the chamber to wear a safety harness selected in accordance with AS2626 and designed to comply with AS1891 to provide a means of attachment to the tripod mounted recovery hoist to afford fall protection. A lanyard with an in-built shock absorber should be interconnected between the safety harness and the recovery tripod.
- 3) Powered tools and equipment used in the confined space shall be pneumatic tools or tools operated by extra low voltage. Where it is necessary for a line voltage electrically operated tool or equipment is to be used within the confined space its use should be when connected via a tested residual current protection device.

Compliance requirement – a confined space work procedure for these tasks is a requirement and a proforma is appended.

UNDERWATER DIVING OPERATIONS

A diving supervisor must be in place and be documented. This operator is responsible for carrying out the job risk assessment of the dive site on the day, and reviewing the dive plan as required. A complete dive plan and Safe Work Method Statement/s for the job must be provided to Council, and subsequently approved, before any dive work commences.

The ocean inlet and the lake outlet shall be inspected every 12-18 months by certified divers to determine if structural deterioration of the installation has occurred and to ascertain if there has been an excessive buildup of sand and debris both within the chamber/supply pipes and upon the inlet/outlet grilles.

That divers operate in accordance with the obligations imposed by Australian Standard 2299.1: 2007; AS/NZS 2299.2: 2002; AS/NZS 2299.3: 2003; AS/NZS 2299.4: 2005 – Occupational Diving and where Australian Standards AS 2815.1: 2008; AS 2815.2: 1992; AS 2815.3: 1992 ;AS 2815.4: 1992; AS 2815.5: 2006, accredited occupational divers.

Note: The specialised procedure shall be documented assessed validated by a licensed dive operated accredited to perform such a task and a copy certified by the Department for Administrative and Information Services industrial inspectorate prior to works commencing.



Compliance requirements:

- 1) The tasks to be undertaken are professionally planned and documented, equipment identified and work methodologies described to the accredited first aider/safety officer;
- 2) The divers to use entry control procedures with two relief divers shall be in attendance when divers are performing work functions to initiate rescue/recovery procedures.
- 3) Life lines to be used.
- 4) The principal air supply utilised by the diver should be:
 - Backed up with a secondary air supply, provided through an air distribution panel (in case of primary air supply failure)
 - Air purity tested at least every 6 months
 - Supplied by high pressure air cylinders (with current hydrostatic test dates)
 - Suitable regulators provided
 - Suitable air hose provided
- 5) A recovery tripod shall be erected as previously described shall be erected before commencement of diving works within the flow control chamber and surrounds and remain in place for the duration of each work shift.

ENTRY INTO CONFINED SPACE PROCEDURE

MANDATORY REQUIREMENTS

1. **SCOPE**

This document covers the minimum requirements associated with entry into and performance of work by employees and contractors in confined spaces.

2. **OUTCOMES**

To ensure all hazards associated with the entry into a confined space are assessed and controlled such that risks are minimised and where possible eliminated and that the requirements of the Australian Standard 2865; 2009 are achieved.

3. **DEFINITION**

Confined Space:

- Means an enclosed or partially enclosed space that is at atmospheric pressure during occupancy and not intended or designed primarily as a place of work and which;
- May have restricted means of entry and exit and includes a storage tank or other tank like compartment, an open topped space, a pipe, sewer shaft, duct or similar structure; and
- Which has the potential to present a hazard to personnel entering that space.

4. **REQUIREMENTS**

4.1 All confined space shall be identified, registered and marked with a danger sign forbidding entry to unauthorised persons.

4.2 Hazards to be considered prior to entry into a confined space includes suffocation, poisoning, moving parts, fire, explosion, drowning, burial under solids, electrocution, radiation, burning, scalding and the like.

4.3 A confined space work permit shall be issued for each entry. Persons authorised to issue these permits shall be training in confined space hazards.

4.4 The work permit shall specify preparations for entry such as physical isolation, cleaning and purging, decontamination, and test of work atmosphere, and the use of personal protective equipment. Additionally it shall nominate the type, scope and duration of the task.

4.5 An accredited first aider/safety officer shall be present at all times a person is within the confined space.

4.6 The work within the confined space shall be undertaken as specified in the work permit and all precautions shall be strictly followed.

4.7 The accredited first aider/safety officer shall follow the instructions for the specified duties and not leave the precise work site while person/s are within the confined space. In the event of an injury entrapment or a collapsed person within the confined space the responsible officer is to assess the situation, summon help and ensure assistance is immediately initiated, first aid, resuscitation etc.

4.8 The accredited first aider/safety officer must not enter the confined space until it is deemed to be safe by a qualified authorised person.

4.9 Upon the completion of the work the confined space is to be closed, secured and the entry permit returned to the issuer for file retention.

COMPLIANCE CHECKLIST:

NO UNAUTHORISED ACCESS CONFINED SPACE – Signs installed	<input type="checkbox"/>
Hazard security – fencing barrier supplied	<input type="checkbox"/>
Emergency service Communications	<input type="checkbox"/>
Mechanically certified capacity crane	<input type="checkbox"/>
Accredited licensed crane driver	<input type="checkbox"/>
Accredited rigger	<input type="checkbox"/>
Accreditations and work procedure provided by the principal contractor.	<input type="checkbox"/>
Portable scaffold	<input type="checkbox"/>
Entry control boards	<input type="checkbox"/>
Accredited first aider/safety officer	<input type="checkbox"/>
Diver safety team	<input type="checkbox"/>
Means of recovering disabled persons from the chamber	<input type="checkbox"/>
Contractors provide documented work procedures	<input type="checkbox"/>
Safety harness connected via a shock absorber lanyard to the recovery tripod	<input type="checkbox"/>
All procedures submitted to the Department for Industrial Affairs and approved	<input type="checkbox"/>

ENCOUNTER LAKE/FRANKLIN ISLAND FLOW CHAMBER ENTRY PROCEDURE CHECKLIST

Ensure clear understanding of scope of works required	<input type="checkbox"/>
Ensure crane, crane driver and rigger for removal/replacement of chamber covers	<input type="checkbox"/>
Ensure hazard fencing to control access to work site	<input type="checkbox"/>
Provided portable lightweight scaffolding is on site to create stable work platform	<input type="checkbox"/>
Ensure the fitters work program has been approved	<input type="checkbox"/>
Provided aluminium access ladder is constructed to AS/NZS 1892.1: 1996, AS/NZS 1892.5: 2000	<input type="checkbox"/>
Provided safety harness for use by the rigger whilst within chamber is of appropriate standard	<input type="checkbox"/>
Ensure extra low voltage powered tools/air operated tools are only available on site and used	<input type="checkbox"/>
Ensure line voltage equipment is RCD protected	<input type="checkbox"/>
Emergency services notified and means for contact available	<input type="checkbox"/>
Ensure suitable means of recovery for injured person/s from the chamber and provided attachment point for fall protection is provided	<input type="checkbox"/>

DIVING PROCEDURES CHECKLIST

Ensure divers to undertake works are AS2815.2: 1992 certified	<input type="checkbox"/>
Ensure work is in accordance with AS/NZS 2299.1: 2007	<input type="checkbox"/>
Ensure dive program documented and approved	<input type="checkbox"/>
Ensure contact with emergency services is available	<input type="checkbox"/>
Ensure appropriate means of recovering for injured diver/s from chamber	<input type="checkbox"/>

REFERENCES

Work Health & Safety Act 2012

Work Health & Safety Regulations 2012



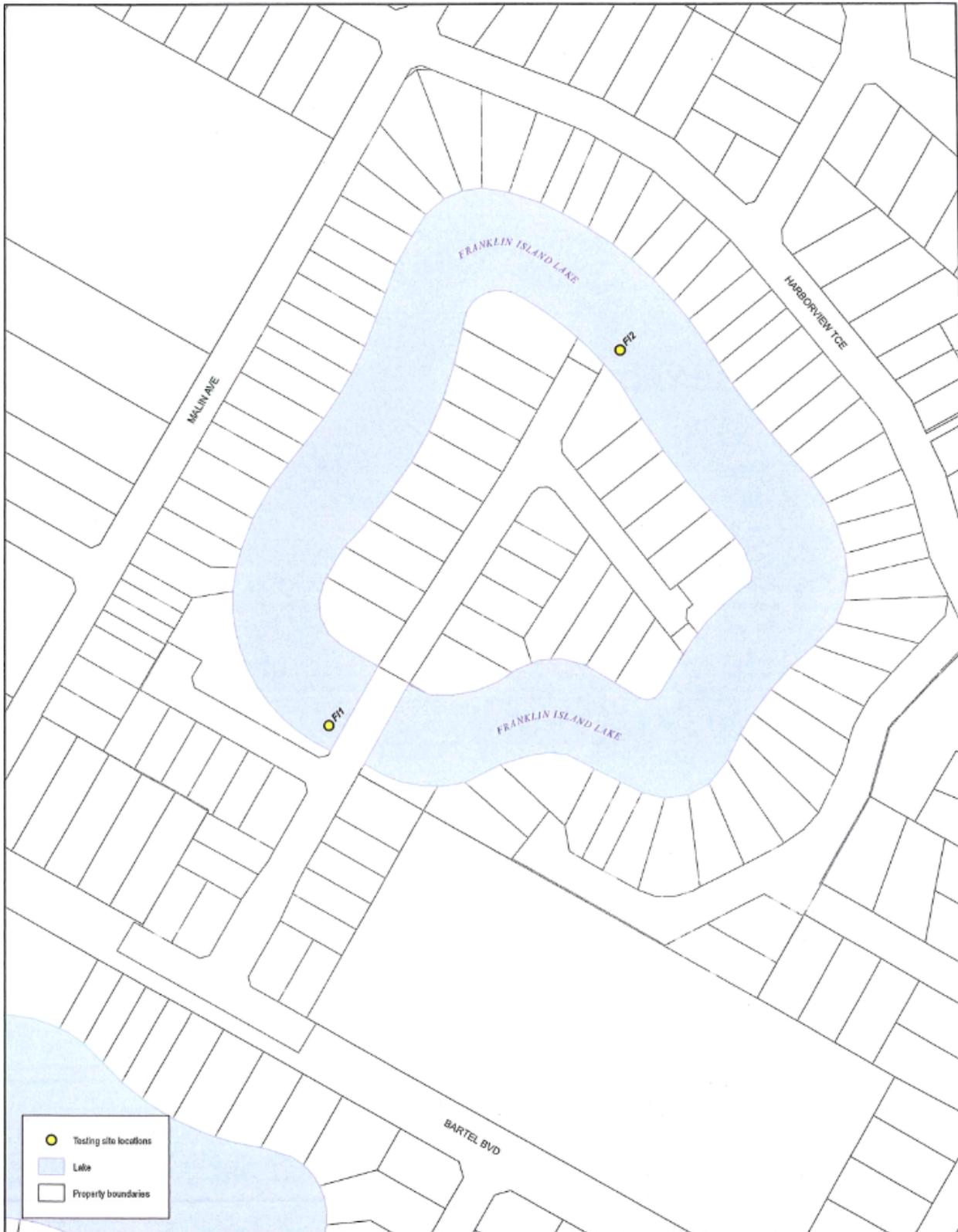
APPENDIX 4

PLAN DELINEATING ENCOUNTER LAKES AND FRANKLIN ISLAND WATER QUALITY SAMPLING POINTS



				1:4,000 @A4		Encounter Lakes Water Monitoring Sites	
		SOURCE AEN24-GIS-001	PROJECTION MGA84	FINAL APPROVAL Neil Tooley		DATE 24.Jun.10	FIGURE No. 001

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		0 10 20 40 Metres		1:2,000	@A4	Kellogg, Brown & Root Pty Ltd Kellogg, Brown & Root Pty Ltd ABN 01 007 690 317 186 Greenhill Road Parkside 5063 Drawn by J. Paul	Franklin Island Water Monitoring Sites	
		SOURCE GIS FILE AEN924-GIS-002	PROJECTION MGA84	FINAL APPROVAL Neil Tooley	DATE 24 Jun 10		FIGURE No. 002	REVISION 0

Disclaimer: While every care is taken to ensure the accuracy of this data, KBR makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including and without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the data being inaccurate or incomplete in anyway and for any reason.



APPENDIX 5

PRIVATE ACCESS

IN LAKE ROCK REVETMENT

PERMITS/APPROVAL REQUIRED

Licence/permit relating to Community Land under S.202 of the Local Government Act 1999 and/or Council By-Law No. 4

Exemption:

Private steps forming part of the lake rock revetment which meet the Encounter Lakes/Franklin Island Guidelines for Private Steps are exempt from requiring a permit or development approval under the Development Act. However, the adjoining property owner must obtain written consent from Council before building or modifying steps as part of the lake rock revetment wall.

ENCOUNTER LAKES/FRANKLIN ISLAND - GUIDELINES FOR PRIVATE STEPS:

- 1) The steps shall consist of the following dimensions:
 - a. width shall be no less than 750mm and no greater than 1500mm
 - b. risers (R) shall be no less than 115mm and no greater than 190mm
 - c. treads (T) shall be no less than 240mm and no greater than 355mm
 - d. slope relationship (2R+T) no less than 550mm and no greater than 700mm
- 2) Treads must have a slip-resistant finish or a suitable non-skid strip near the edge of the nosings.
- 3) A steel handrail shall be erected on at least one side of the steps and shall be protected by hot dip galvanising or a means not less effective than galvanising. Height of the handrail shall be no less than 865mm and no greater than 1000mm above the nosing of the steps.
- 4) The steps shall be built out of Bluestone to match the existing bank and are to be set in 3:1 cement mortar.
- 5) The applicant is to ensure when preparing the site for concrete, that only large rocks are moved and there is no disturbance to smaller (graded) rocks over the geotextile fabric.
- 6) The steps and handrail shall be maintained at all times in a safe, functional and aesthetically appropriate standard and to satisfaction of Council. Failure to do so may result in Council undertaking any necessary maintenance work, or demolition of the stairs and restoration of the bank to its original condition at the adjoining property owner's cost.

Note: Steps which are considered as 'exempt' from requiring a permit or Development Approval must still obtain written consent from Council before making any modification to the lake rock revetment wall



APPENDIX 6

PRIVATE STRUCTURES

LANDINGS, JETTIES AND PONTOONS

(including Non-Exempt Steps)

PERMITS/APPROVAL REQUIRED

Licence/permit relating to Community Land under S.202 of the Local Government Act 1999 and/or Council By-Law No. 4

Development Consent under S.32 of the Development Act 1993

Development Application – Guidelines

APPROVAL FOR LANDINGS, JETTIES AND PONTOONS

Applications for these structures are assessed against the provisions of the Development Plan and the Building Code of Australia, under the Development Act and Regulations 1993, and when compliance has been met approval is granted under delegation. Two stages are involved in this process:

1) FIRST STAGE ASSESSMENT – PLANNING

The planning assessment is made by assessing the proposed structure against the provisions in the City of Victor Harbor Development Plan particularly the Residential (Lakeside) Zone 5 Objectives and Principals. These provide that:

- Not more than one landing, jetty, pontoon or similar structures (including steps) are to be constructed in the lake for each residential development site, except in the case of duplex housing development, where two landings, jetties or pontoons may be allowed.
- Landings, jetties and pontoons or similar structures should
 - Maintain the safe use and enjoyment of the lake for recreational purposes;
 - Project no more than 5 metres into the lake as measured horizontally from the lake boundary;
 - Be constructed of durable low maintenance material appropriate to a water environment; and
 - Be in accordance with the Development Plan as follows:

Pontoons, jetties, landings and other similar structures constructed in the lake should comply with all of the following:

- (a) be limited to a maximum of one structure per development site
- (b) be designed and sited to achieve the following:
 - (i) maintain the safe use and enjoyment of the lake for recreational purposes
 - (ii) project no more than 5 metres into the lake as measured horizontally from the lake boundary, and should have a maximum size of 2.5 metres by 4.5 metres with the longer side being orientated parallel to the lake boundary
 - (iii) be small in scale and constructed of durable low maintenance materials that are suitable to a water environment.

2) SECOND STAGE ASSESSMENT – BUILDING

Section 4 of the Development Act 1993 provides that a pontoon permanently moored for fixed to land as a “building” subject to the Building Codes of Australia.

The application is checked for compliance with this code and in particular the following matters are considered:

- The supporting posts of the proposed structure are not to be CCA treated pine (permapine). Note: Currently the supporting posts approved as complying are reinforced concrete posts protected by sewer grade PVC piping.
- Ensuring that the timber used in the structure above water is the correct durability class in accordance with the National Timber Framing Code and has the correct level of treatment in accordance with the Preservative Treatment Code.
- Ensuring that all metal connections, fixings and fittings are protected against the effects of corrosion in accordance with the National Timber Framing Code.

LICENCE/PERMIT APPLICATION - GUIDELINES

Private structures on the lake reserve also require a licence/permit under section 202 of the Local Government Act and/or Council By-Law 4. The issuing of a licence/permit by Council will be subject to:

- 1) Compliance with all requirements relating to development approval as required under the Development Act and Regulations, Victor Harbor Development Plan, and the Building Code of Australia.
- 2) The structures are to be maintained at all times in a safe, functional and aesthetically appropriate standard in accordance with Building Code standards and to the satisfaction of Council. Failure to do so may result in Council undertaking any necessary maintenance work, or demolition of structures and restoration of the reserve to its original condition, at the License holder’s cost.

In addition to the structural and aesthetic standards set out in this document for private structures on the lake reserve, other conditions and requirements may be relevant to an application for a licence/permit. These may include, but are not limited to, matters pertaining to registration and renewal timeframes, inspections and engineer certifications, public liability, and relevant charges.

Licence/Permit applications for private structures in the Lake reserve is to be made in the appropriate form and accompanied by the fee as set out in Council’s schedule of fees and charges.



APPENDIX 7

PLAN DELINEATING THE ENCOUNTER LAKES AND FRANKLIN ISLAND BEACHES

ENCOUNTER LAKES AND FRANKLIN ISLAND BEACHES





APPENDIX 8

PLAN DELINEATING THE ENCOUNTER LAKES AND FRANKLIN ISLAND LAND RESERVES

ENCOUNTER LAKES AND FRANKLIN ISLAND RESERVES



APPENDIX 9

RESERVE MAINTENANCE STANDARDS

CLASS A RESERVES

CLIFF THORPE RESERVE

MOW	every one to two weeks
EDGE	every two to four weeks
BRUSH CUT	around signs and where no edging strips exist, poison around trees, fence lines
POISON	footpaths (monthly)
WATER	lawns during summer trees and shrubs as required during summer
CHECK AND MAINTAIN	irrigation systems as required
TRIM	hedges as required (2-3 time/year)
PRUNE	trees and shrubs as required
MAINTAIN	playground equipment in safe condition furniture (seats, bins, tables and barbecues) structures (e.g. shelter shed, rotunda, toilets /change rooms)
MULCH, PLANT AND MAINTAIN	Works occur weekly – scheduled as required
FERTILISE	turf/lawns in spring
REPAIR	vandalism urgently
TOP DRESS	turf/lawns to maintain level surface
LITTER PICK	when lawn and garden maintenance is scheduled



CLASS B RESERVES

ALL RESERVES WITHIN THE ENCOUNTER LAKES AND FRANKLIN ISLAND DEVELOPMENT (EXCLUDING CLIFF THORPE RESERVE)

MOW	every two weeks
POISON	edges every month around trees, footpaths and walking trails around other obstacles difficult to maintain
WATER	summer lawn areas as required trees and shrubs as required
CHECK AND MAINTAIN	irrigation systems as required
PRUNE	trees and shrubs as required
SPRAY	garden beds with herbicide as required
MAINTAIN	furniture (seats, tables, bins, barbecues) playground equipment in safe condition, footbridges and walking trails in safe to easily accessible state
LITTER PICK	when lawn and garden maintenance is scheduled
MULCH, PLANT AND MAINTAIN	Works occur weekly – scheduled as required
PROPAGATE AND POT	on nursery stock
FERTILISE	lawns in spring
REPAIR	vandalism quickly



APPENDIX 10

ENCOUNTER LAKES

MEMORANDUM OF AGREEMENT

AND

CONDITIONS OF DEVELOPMENT APPROVAL

**(A separate Memorandum of Agreement
was not created for Franklin Island)**

8

MEMORANDUM OF AGREEMENT made the 22nd day of December 1987 BETWEEN: The DISTRICT COUNCIL OF VICTOR HARBOR of Victor Harbor in the State of South Australia (hereinafter called "the Council") of the one part in BLUFF HARBOR PTY. LTD. whose registered office is situate at 174 Pulteney Street, Adelaide in the said State (hereinafter called "the Company") of the other part.

WHEREAS:

- E. C. J.*
[Signature]
- A. The Company has applied to the Council and to the Planning Commission of the said State for all planning approvals ~~is~~ necessary to divide the land comprised in Certificate of Title Volume 2029 Folio 63 and portion of the land comprised in Certificate of Title Register Book Volume 1018 Folio 87 and Volume 4152 Folio 681 (hereinafter called "the said land") into residential allotments with a lake to be formed within the said land.
 - B. The Planning Application has been numbered 453/D019/87.
 - C. The parties have agreed in principle on a number of matters that will be required to be established if the division of the said land is to proceed:
 - D. The parties desire to set forth in formal terms the agreement that they have reached.

NOW THIS AGREEMENT WITNESSETH as follows:-

1. This Agreement is conditional upon the Company receiving all approvals necessary to divide the said land in accordance with the said Application and to the Company actually proceeding to carry out the civil engineering works necessary to divide the said land in accordance

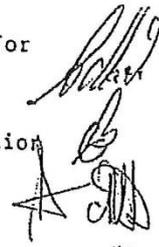
31369

with the provisions of the said application and in particular to construct an underground pipe from the said land out to sea.

2. The Company will:-

PLANNING
APPROVAL
SUGGESTS
COUNCIL
SATISFACTION

(a) Cause to be prepared plans and specifications for the construction of the lake, a tidal flushing pipe and ancillary works, rip rap bank protection and the beaches and other reserves to the reasonable satisfaction of the Council in all things.



(b) Cause a lake to be constructed within the said land in accordance with the plan outlined in the said application or such other plans as may from time to time be agreed between the Council and the Company.

SOME
QUESTION
ON
PIPE
SIZE

(c) Construct a pipeline underground from the said lake out to sea by which means the lake shall be flushed by tidal movement, the pipe and all ancillary works to be constructed in accordance with plans and specifications approved by the Council.



(d) Construct around the boundaries of the said lake lake edge protection consisting of rip rap over filter cloth and seven (or such other number as may be approved by the Council) public reserves where sandy beaches will be created or the edge of the lake graded to water level and planted with grasses and trees by the Company all in accordance with plans and specifications approved by the Council.

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- (e) Construct a warning beacon approved by the Council, ^{the} ~~DEPARTMENT OF MARINE HARBORS AND ANY OTHER RELEVANT GOVERNMENT AUTHORITY~~ above the sea intake of the outlet pipe and connect an electrical power supply to such beacon.
- (f) Install appropriate trash racks at the outlet of all stormwater pipes taking stormwater from the said land or other land owned by the Company into the lake.
- (g) Maintain and cause to be maintained in a proper and workmanlike manner to the reasonable satisfaction of the Council in all things the tidal flushing pipe and all ancillary works (including without limiting the generality of the foregoing mechanically operated flow control gates the warning beacon and the outlets from the lake to the pipe and from the pipe to the sea) for a period of five (5) years from the date when the tidal flushing pipe and all its ancillary works and at least the first stage of the lake and its bank protection have been practically completed in accordance with a Certificate issued to the Company by its engineers (which 5 year period is hereinafter called "the maintenance period") and record in a manner and at times reasonably required by the Council during the maintenance period the quality of the water in the lake the amount of weed growth and sedimentation in the lake bed, all maintenance carried out by or on behalf of the Company and details of any unusual amount of rubbish deposited in the lake.

5 YEAR PERIOD IS MAINTENANCE PERIOD.

HAS DEVELOPER MAINTAINED IN PROPER AND WORKMANLIKE MANNER?

NOT FULLY COMPLETED WITH

31369

WHY IS RESPONSIBILITY NECESSARY?

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(h) Cause to be carried out during the maintenance period such studies and assessments as may reasonably be necessary to record the amount of marine growth in the lake and to control the same to ensure that the lake at all reasonable times remains safe and attractive for those residents living adjacent thereto and ~~the~~ visitors.

(i) Effect a policy of public liability insurance in the joint names of the Company and the Council during the maintenance period indemnifying the Company and the Council against any claims that might be made against either of them arising out of and incidental to the construction or use of the lake the flushing pipe and the reserves and bank protection.

(j) Effect a policy of insurance in the joint names of the Council and the Company under which the flushing pipe and its ancillary works are insured against loss or damage during the maintenance period.

* (k) REQUIREMENTS BEFORE VESTING?

Take whatever action the Council might reasonably require of it to vest in the Council the ownership of the lake the tidal flushing pipe and all its ancillary works provided however that such vesting of ownership shall not affect the liability of the Company during the maintenance period as hereinbefore mentioned.

(l) Maintain the integrity and appearance of the edge of the lake including the lake protection, grassed

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edges and sandy beaches during the maintenance period.

(m) Collect and remove from the lake any rubbish floating therein or lying on the lake bed or on the lake edge such removal to be carried out on a needs basis as reasonably necessary, and to transfer such rubbish to a suitable point within the said land agreed between the Council and the Company for collection by the Council on a regular basis during the maintenance period.

NOT DONE

(n) For the purpose of collecting such rubbish as aforesaid to purchase a suitable ~~small~~ boat with an outboard motor and all necessary accessories for the collection of rubbish from the lake and for the servicing of the warning beacon at the sea end of the flushing pipe and to transfer the ownership of such boat ^{outboard motor and all necessary accessories} to the Council at the completion of the maintenance period free of cost to the Council in all respects.

BOAT FOR COUNCIL

(o) Obtain any necessary easement licence or lease for the construction of the tidal flushing pipe under the sea bed provided however that the Council shall use its best endeavours to assist the Company in this regard.

(p) Construct from the said land to the sea bed a trench to be used to carry the tidal flushing pipe large enough to enable the Council to lay in such trench at the same time or immediately after the pipe from the lake is laid any pipe necessary to transfer stormwater run-off from outside the said land out to sea.

3. The Council agrees that the area of the lake and any reserves ancillary thereto shall be taken into account by the Council in calculating the obligation of the Company to provide reserves in the division of the said land and in neighbouring land owned by the Company and the Company will take such action as the Council may from time to time request of it to vest such land in the Council either as reserves or otherwise howsoever.

The volume of reserves of Lake as reserve requirements

4. The Company will as soon as practicable after the date hereof co-operate with the Council in carrying out such studies and obtaining such information as may reasonably be necessary to satisfy the Council that the cost to be incurred by the Council in maintaining the lake edge and the lake tidal flushing system and the cleanliness of the lake can be met from the additional revenue that the Council will receive from rates in respect of the said land and the neighbouring land in consequence of the division of the said land in accordance with the provisions of the abovementioned Planning Application.

ACCURATE COSTINGS REQUIRED

5. Council will:-

- (a) Co-operate with the Company and use its best endeavours to ensure that the Company obtains any easement or licence necessary to enable it to construct and maintain the tidal flushing pipe from the lake out to sea.
- (b) Construct appropriate trash racks over the outlets from all stormwater drains running into the said lake from land outside the boundaries of the said land and any other land in which the Company or any other Company associated with it may own.

3136g

(c) Co-operate with the Company in ensuring that any reserves on or adjacent to the said lake are policed to the intent that the said land and the adjoining land and any other land owned by the Company or Companies associated with it can be developed as a first class residential tourist development.

*Council
Obligation
— SAME
STANDARDS
AS
DEVELOPER*

(d) Maintain the lake, lake edge, tidal flushing pipe and all its ancillary works, the beach areas and other reserves adjacent to the said lake within the area of the said land after the completion of the maintenance period to the same standards as the Company maintained them during the maintenance period.

(e) Keep the Company advised of all its requirements promptly and ensure that one of its senior officers is available at all reasonable times to liaise with the Company on the reasonable requirements of the Council in relation to the development of the said land.

6. (a) As soon as practicable after the Planning Application has received all necessary approvals as aforesaid the Company and the Council shall agree upon the appointment of an independent consulting engineer in private practice in the said State as "dispute resolution facilitator" for the purposes of this agreement.

*KINHILL
PTV. LTD
?*

(b) Should the parties be unable to agree upon the engineer to be appointed as aforesaid within fourteen (14) days after either party has

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requested the other in writing to nominate such engineer then an engineer shall be appointed by the President for the time being of the Association of Consulting Engineers Australia (South Australia Division) and his decision shall be binding upon the parties.

- (c) If the parties are unable to agree on any matter arising out of the construction or maintenance of the lake, the lake edge, the reserves or beaches as aforesaid and the tidal flushing pipe and all its ancillary works or if the Company deems that any requirement of the Council in relation thereto is unreasonable or if the parties are unable to agree on plans or specifications required by this agreement either party may after giving seven (7) days notice in writing to the other of its intention so to do refer the matter to the abovementioned independent engineer who shall act as an expert and not as an arbitrator and who shall determine the matter which is not agreed. His decision shall be binding upon the parties and his costs shall be paid by the Company. He shall be entitled to obtain such other independent expert advice as he may deem appropriate.

7. Nothing herein shall be deemed to require the Company to construct the lake as delineated in the plan attached to the abovementioned Planning Application at the one time. The lake may be constructed in stages and the maintenance period in respect of each stage shall

CONSTRUCTION OF LAKE IN STAGES.

** ENGINEER TO CERTIFY PROGRESS COMPLETION OF STAGES.*

3136g - MAINTENANCE PERIOD OF EACH STAGE 5 YEARS FROM PROGRESS COMPLETION.

[Handwritten signatures and initials]

commence when a consulting engineer employed by the Company for such purpose shall certify to the Company ~~and the Council~~ that a particular stage of the lake has been practically completed in accordance with the plans and specifications approved by the Council. A copy of such certificate shall be given to the Council immediately it is received by the Company.

- 8. Any Notice to be given by either party hereto shall be deemed to be duly served if left at the office of that party set out above or if posted by security mail to the address of that party as set out above or at such other address as either party may from time to time notify to the other its address for service of notices. If posted such notice shall be deemed to be served on the second business day after it was duly posted as aforesaid.
- 9. Any notice hereunder shall be deemed to be duly executed by the party giving the same if, in the case of the Council it appears to have been signed by the District Clerk or the Deputy District Clerk, or in the case of the Company, it appears to have been signed by a director or the secretary of the Company.
- 10. Each party shall bear its own costs of and incidental to the preparation and execution of this Agreement but the Company will pay any stamp duty thereon.

IN WITNESS whereof the parties have hereunto executed this Agreement the day and year first hereinbefore written.

THE COMMON SEAL of
BLUFF HARBOR PTY. LTD.
was hereunto affixed in the
presence of:

[Signature]

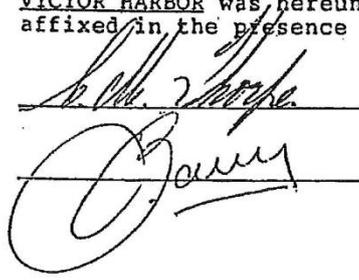
Director

[Signature]

3136g
SECRETARY
DIRECTOR



THE COMMON SEAL of)
the DISTRICT COUNCIL OF)
VICTOR HARBOR was hereunto)
affixed in the presence of:)



District Clerk

STATEMENT OF COUNCIL REQUIREMENTS

FORM 3

FOR A PLAN OF DIVISION

Development Number
453 DO11 : 88

TO

BLUFF HARBOR PTY LTD,
C/- KINHILL ENGINEERS,
200 EAST TERRACE,
ADELAIDE 5000

The following requirements are to be satisfied within thirty months of the date hereof or any extension thereof which the Council may stipulate for a certificate of approval to be issued in respect of your application dated 10th day of June 1988

Reserves
for
and
supply

Refer to Attachment 'A'

of
or
in lieu

Refer to Attachment 'A'

and
to land

Refer to Attachment 'A'. Design of roads to be such that gradients of access from a point one (1) metre behind the kerb to a point 8.0 metres inside the property line are not greater than 1 (vertical) in 6 (horizontal)

widening

No requirement

paths, water
and
sing

Refer to Attachment 'A'

lights
and
lights

Refer to Attachment 'A'

Electricity
supply

Council has declared the area an underground mains area and all requirements of the Electricity Trust of South Australia for easements and the installation of underground mains and street lights shall be met.

Names of Roads
Other names

Streets are to be named as directed by Council.

Other
Requirements

Refer to Attachment 'A'

By

District Council of Victor Harbor

- Town Clerk
- District Clerk
- Authorised Officer

Signed [Signature]
Dated this 2nd day of September 1988

OF APPEAL

A person aggrieved by this statement of requirements may within two months from the date of receipt of this notice, or such longer period as may be allowed by the Planning Appeal Tribunal, appeal against this statement to the Planning Appeal Tribunal.

2.

ATTACHMENT A TO FORM 3

Design to comply with NAASRA recommendations "Design
Sections at Grade".

Minimum Stopping Sight Distance -

Matthew Flinders Drive	55m
Nicholas Baudin Drive	55m
All other Streets	40m

Longitudinal grade -

Minimum - 0.4%

Maximum - 12% (however, up to 15% may be accepted by
Council in certain circumstances).

Crossfalls -

Preferred 1:30 (3.3%)

Minimum 1:40 (2.5%)

Maximum 1:20 (5.0%)

One way crossfalls are to be avoided if possible.

Should one way crossfall be used, an in-fall water table
of 450 mm width on the high side is required (refer
Drawing 1 for recommended dimensions).

e) Kerb Radii - minimum 8 metres

f) Footpath area (area immediately adjacent to the back
of the kerb):-

Width 1.2 m (min.)

Slope 2% (up from kerb)

Outside of Footpath area, 1 vertical to 5 horizontal

g) Pavement Design -

Minimum total thickness shall be 250 mm. Variation may be
required after inspection of subgrade by Council. Pavement
design based on traffic volume and CBR tests of subgrade
may be required as a result of inspection. Minimum hotmix
seal thickness - 25 mm.

Pavement material - all materials to be to S.A. Highways
Department Specifications. Certificates of compliance to be
forwarded to Council upon request.

Base course - PM32

Sub-base course - PM21.

Fully compacted sub-base. Course to extend a minimum of
300 mm beyond the back of kerb.

ATTACHMENT A TO FORM 3

Development No.: 453/D011/88

Drainage Reserves, Easements for drainage and electricity supply -

- (a) Drainage easements granted to the District Council of Victor Harbor are required at the rear of allotments where roof water cannot be taken to street water tables, or discharged to the lake.
- (b) Drainage easements granted to the District Council of Victor Harbor are required to accommodate underground drains discharging to the proposed Drainage Reserve, but not already located in it.
- (c) The requirement of the Electricity Trust of South Australia with respect to the provision of easements are to be met.
- (d) Easements granted to the District Council of Victor Harbor are required to accommodate the Tidal Flushing Pipe, except where it is located in the lake, landscaped Reserves dedicated to District Council of Victor Harbor, and Road Reserves.

2. Open Space -

- (a) Nil requirements apart from the landscaped Reserves shown on the plan incorporated in the Planning Application (9 No. areas).

3. Roads and access to land -

- (a) Minimum Reserve widths and seal widths -

	Reserve Width	Seal Width
Matthew Flinders Drive	15 m	6.65m
Nicholas Baudin Drive		
1) Clipper to Maud	18 m	8.25m
2) Elsewhere	15 m	6.65m
North Place	15 m	5.75m
Pop Court	15 m	5.75m
Redjammer Court	15 m	5.75m
Saleboat Close	15 m	5.75m
Seaside Crescent	15 m	5.75m
Clipper Court	15 m	5.75m
Parque Court	15 m	5.75m
de-sac ends	25 m	17.25m

3.

ATTACHMENT A TO FORM 3

Compaction specifications:

Footpath areas - 90% max. standard compaction (as per AS 1289 E1.1)

Sub-grade - 95% (as per AS 1289 E1.1)

Sub-base - 95% max. modified compaction (as per AS 1289 E2.1)

Base - 96% (as per AS 1289 E2.1)

In addition, the material must be within 2% of its optimum moisture content.

Council must be given the opportunity to be present for all on-site pavement testing and test results must be forwarded to Council as soon as practicable.

All testing to be carried out by N.A.T.A. registered laboratories.

A compaction test is to be carried out every 50 m for each pavement course and on the sub-grade.

Sub-surface drainage to Council's specification may be required after inspection of boxed out sub-grade.

The pavement shall be finished 5 mm proud of the adjacent water table.

h) End Treatment - Matthew Flinders & Nicholas Baudin Drive -

The pavements on these streets shall be extended beyond the western property alignment of Maud Street and the eastern property alignment of Tabernacle Road so as to match the existing bitumen surface pavements in those streets. Details of the matching shall be submitted to and approved by Council.

Footpaths, kerbing etc.

- (a) All streets shall be provided with kerbing and gutterings on each side.
- (b) All streets shall be provided with a footpath on one side as directed by Council. Footpaths to be placed immediately adjacent to back of kerb except on Nicholas Baudin and Matthew Flinders Drives, where their precise location shall be as agreed with Council.

4.

ATTACHMENT A. TO FORM 3

The footpaths should be constructed to the following specifications:

Concrete is to be vibrated by means of a suitable vibrating screen board.

20 MPa concrete.

Slump - 60 mm.

Width - 1200 mm.

Compacted thickness - 100 mm.

House stormwater pipes to be accommodated within the footpath in such a manner as to avoid cracking.

Reinforcing mesh F62 fabric required - 40mm up from bottom.

Alternatively, Council will accept a cash payment in lieu of construction based on the current rate at which Council can complete the work.

Drainage -

- 1) Street drainage and rear of allotment drainage shall be designed in accordance with the "Stormwater Drainage Design in Small Urban Catchments" J. Argue, A.R.R.B. Special Report No. 34.
 - 2) Design shall be based on the IFD curves for Victor Harbor available from the Bureau of Meteorology.
 - 3) Design recurrence intervals -
 - (i) Minor Flows (for culvert design)
 - Residential - five years
 - Commercial/Industrial - ten years
 - (ii) Major Flows (Overland)
 - All areas - 50 years without flooding private property.
- (Note: no allowance is to be made of underground drainage capacity when calculating overland flow channel requirements).
- 4) All drainage is to be designed to cater for the fully designed catchment. The layout plan is to show contours, including any catchment upstream that will contribute runoff to the area being subdivided. Street catchments are to include the front 1/3 of all blocks in which rear of allotment drains are used.

5.

ATTACHMENT A TO FORM 3

Minimum Pipe Diameters :

Main Street Drains - 375 mm
Rear of Allotment Drains - 150 mm

Where pipes are to cross roads, consideration must be given to trench conditions and their effect on determining the class of pipe to be used. (Calculations to be supplied to Council).

Detailed hydraulic grade lines are to be a minimum of 150 mm below water table invert. The calculated hydraulic grade line shall be illustrated on the stormwater drainage longitudinal section drawings.

All pipes shall be graded so as to ensure a minimum flow velocity of 0.5 metres per second when calculated for a rainfall event equal to 50% of the 1 in 1 year intensity.

Side entry pit inlets (refer Drawings 5 & 6) -

Maximum opening 1800 mm.

Deflectors as per specifications detailed in Drawing 2 are to be used where water table grades exceed 3%.

Deflectors/apron specifications as detailed in Drawing 3 are to be used where water table grades exceed 6%.

Concrete apron with depressed inlet to be used (65 mm depression and 600 mm wide apron).

Side entry pits and junction boxes to have rounded or bell mouthed (approx. 70 mm radius) outlets. In addition, there should be a minimum of 50 mm of fall (inlet to outlet) through a pit or junction.

SEPs and JBs that are deeper than 1.5 m to be greater than 1200 ϕ .

Provision shall be made for the discharge of roof water to the kerb and gutter for all allotments not served by a rear of allotment drain. Such provision shall include a pipe beneath the concrete footpath, extending to the property boundary.

No roof water to be discharged within 7 metres upstream of a side entry pit.

Rear of allotment drains -

Rear of allotment drains shall be installed within any blocks in which the roof stormwater cannot be directed to the road. The system should cater for the roof water only.

Allotment connection points should be constructed as per Council's standard design (refer Drawing 4).

6.

ATTACHMENT A TO FORM J

Type of pipes permitted - PVC (sewer class), reinforced concrete, asbestos cement.

Minimum grade - 1%.

Minimum cover - 300 mm.

A junction box should be provided at every sixth block of a run.

Hydraulic grade line - must be below ground level at all inlets and junction boxes (check only).

Sea Outfall/Intake Pipe -

The design of the sea outfall/intake pipe shall be submitted to and approved by Council prior to the commencement of its construction. Specifically, the following aspects are of interest:-

- i diameter of pipe
- ii location and levels of pipe
- iii sea outfall/intake structure details (measures to prevent sand/rock entry)
- iv lake inlet structure details
- v lake outlets structure details
- vi control structure details (dimensions, accessibility, method of operation, controls etc)
- vii materials of construction generally
- viii corrosion protection measures and surface treatments general
- ix fail safe arrangements

Rip Rap

The design of the Rip Rap bank protection shall be submitted to and approved by Council prior to the commencement of its construction, i.e.:-

- i source of rock
- ii minimum and maximum size of individual rocks
- iii thickness of rip rap layer
- iv full details geotex tile filter cloth layers
- v batter slope

ATTACHMENT A TO FORM 3

Proposed Rap shall extend from lake bed to the property boundary levels from -0.95 to 1.25 A.H.D. respectively.

Proposed shall be provided to the full length of banks except where sand beaches are to be formed:

Beach Areas -

The design of the beach areas shall be submitted to an approved by Council prior to the commencement of excavation for the lake. The beach slopes shall be stable for: -

- likely tidal currents
- wave action
- the grading of sand material used
- beach usage and pedestrian traffic
- water level variations

Landscaping to reserves -

All reserves shall be landscaped to Council's satisfaction. Landscape designs shall be submitted to and approved by Council prior to the execution of this work.

Reserves shall incorporate seating, litter bins, picnic tables, electric barbecues, etc. appropriate for a publicly used park, given its size and general accessibility. Concrete or paved pathways shall be provided where necessary to provide access from the streets to the beach areas. Attractive fencing, bollards or other approved method for preventing unauthorised vehicular traffic and for general control of pedestrian traffic shall be incorporated.

Carparking -

No bitumen surface carparking bays shall be provided in or adjacent to each reserve for persons enjoying the usage of the park or beach areas.

Gazebo -

All design details of the Gazebo shall be submitted to and approved by Council prior to the commencement of its construction.

External roads -

Roads crossed or traversed by the proposed Lake flushing pipe shall be reinstated to a condition equivalent to that which existed before construction disturbance occurred.



APPENDIX 11

CITY OF VICTOR HARBOR

ENCOUNTER LAKES / FRANKLIN ISLAND

EMERGENCY PROCEDURE FOR

CONTAMINATION OF WATERWAY

Procedure Name	Encounter Lakes / Franklin Island Emergency Procedure – Contamination of Waterway
Department / Officer	Community Development / Manager Public Safety and Regulation
Date Adopted	August 2015
Date/s Reviewed	February 2020
Next Review	February 2022
Attachments	Encounter Lakes/Franklin Island Emergency Administration Checklist Encounter Lakes and Franklin Island Reserves Map Encounter Lakes Waterway Closure Signage Checklist Encounter Lakes Waterway Closure Letter (Example).

1. Purpose

The Encounter Lakes/Franklin Island Management Plan, section 12 - Emergency Procedures, is to be applied by the Council in the event that contingency plans need to be implemented when circumstance of an unpredictable nature give rise to a threat to property or human welfare.

SA Public Health Act 2011 section 37. Function of Councils:

a) take action to preserve, protect & promote public health within its area;

It may be necessary, under a variety of circumstances, to involve a number of services to respond to the emergency situation. Please refer to clause 3, Operating Procedure, for the list of service contacts.

2. Background

The primary responsibility rests with Council to ensure that an Operating Procedure is in place to deal with contingencies of an unforeseen nature.

In the event where there has been contamination of the Encounter Lakes/Franklin Island Waterway an operational procedure will need to be followed to ensure that all reasonable steps are taken to notify the public of waterway closure and subsequent reopening.

Water samples are taken from nine (9) locations (refer to Appendix 4, Encounter Lakes Franklin Island Management Plan, “Plan Delineating Encounter Lakes and Franklin Island Water Sampling Points”) during the months of December, January, February, March, April and July/August each year. Samples are laboratory tested for microbiological characteristics and levels of E-coli, faecal coliforms and protozoans such as giardia and cryptosporidium.

Testing is also to be carried out for the physical and chemical characteristics for the presence of nutrients or other forms of contaminants to assess the quality of the waterway for primary contact recreational use as determined by reference to the requirements of the EPA and Australian & New Zealand Environment and Conservation Council’s publication, “Australian Water Quality Guidelines for Fresh and Marine Waters”.

3. Operating Procedure

3.1 Notification

Once the City of Victor Harbor has been notified of a risk, the Manager Public Safety and Regulation needs to be notified. The level of risk and waterway closure will need to be determined.

3.1.1 Manager Public Safety and Regulation or delegate will contact the following internal and external services to notify of waterway closure as per attachment one (1) Encounter Lakes Emergency Administration Checklist.

3.1.1.1 Internal; Chief Executive Officer, Environmental Health Officer, Communications Officer, Senior Management Team, Director Environment and Infrastructure, Manager Operations, Manager Property, Environment and Recreation, Manager Infrastructure, Environment & Infrastructure Administration Officer, Customer Liaison Team Leader, Visitor Information Centre, Property Officer

3.1.1.2 External (based on relevance to the situation as assessed by the Manager Public Safety and Regulation) ; Executive member of the Encounter Lakes Resident Group, SA Ambulance, SA Police, EPA, South Coast District Hospital, Aquatic Permit Holders, local schools, other known community group users, applicants hiring surrounding reserves during closure, and nearby businesses including Boulevard Café and Encounters Conference Centre. Refer to attachment one (1) Encounter Lakes Emergency Administration Checklist for contact details.

3.1.2 The Manager Public Safety and Regulation or delegate will contact Manager Operations to arrange the placement of lake closure signs on public beaches and other reserves with water frontages together with safety bunting or PVC ribbon across the beach fronts to minimise the possibility of continued use.

Please refer to attachment two (2), Encounter Lakes/Franklin Island Reserve Map for reserve locations and attachment three (3) Encounter Lakes/Franklin Island Waterway Closure Signage Checklist

N.B. designated swimming beaches are the first priority for signage, being Cliff Thorpe Reserve, John Crompton Reserve, and John Simmons Park Franklin Island.

Manager Public Safety and Regulation or delegate will organise a notification letter to hand delivered by Council Staff to all properties listed in “Streets to Receive Notification Letter” below. Letter to include suggested recreational activities not advised i.e. swimming, fishing. This process is to be duplicated on the waterway reopening. Please refer to attachment (4) four - ‘Encounter Lakes Waterway Closure letter’ example.

Streets to Receive Notification Letter, Encounter Lakes Area:

- Tabernacle Rd from Cutter Circuit to Ainslie Roberts Drive
- Bartel Boulevard from Matthew Flinders Drive to Encounter Terrace
- Matthew Flinders Drive
- Cutter Circuit
- Islander Drive
- Lakeside Circuit
- Clipper Court
- Windjammer Court
- Nicolas Baudin Drive
- Ketch Place
- Ainslie Robert Drive
- Encounter Terrace
- Henry Street

Streets to Receive Notification Letter, Franklin Island Area:

- Harbour View Terrace from Malen Avenue to Gibson Avenue
- Gibson Avenue
- Ellis Avenue
- Strathmore Court
- Malen Avenue from Bartel Boulevard to Harbour View Terrace
- Tregonning Street

Estimated number of hand delivered letters was 540 as at February 2020.

- 3.1.3 Manager Public Safety and Regulation or delegate to liaise with the Communications Officer to organise local media relations as directed by the Senior Management Team; could include public notice in The Times newspaper, post on Council Facebook page, broadcast on local radio stations.
- 3.1.4 Manager Public Safety and Regulation or delegate to organise notification on the City of Victor Harbor Website and other media broadcasting outlets as directed by the Senior Management Team.
- 3.1.5 Manager Public Safety and Regulation or delegate to formulate a Question and Answer Response Sheet for Customer Service to forward for public enquiry.

Question and Answer should cover the following topics;

- What is the reading?
- What is the contaminant/pollutant?
- Estimated length of closure?
- Where in the water system is it affected?
- Is all activity to cease on beach or can paddlers continue?
- Suggestion of alternative body of water for scheduled aquatics i.e. Ocean, Inman River?
- What are the symptoms of a reaction, health implications?
- How often is the water monitored?

- Who monitors the water?
- Who provides the advice on action to take i.e. consultant/Council?

3.2 Monitoring

- 3.2.1 A sanitary inspection of the monitoring sites and stormwater catchment areas feeding into the lakes to be undertaken by Council in accordance with the procedures in the National Guidelines. These Guidelines can be found at <http://www.nhmrc.gov.au/guidelines-publications/eh38> . The purpose is to identify potential sources of contamination.
- 3.2.2 Take all reasonable steps to identify the cause and isolate the source of contamination.
- 3.2.3 Liaise with the EPA and health authorities, and continue to monitor the contamination with the aim of minimising health risks to residents and the public.
- 3.2.4 Liaise with water quality monitoring contractor as to frequency of testing of the lakes after contamination is confirmed, as well as testing potential contamination sources.
- 3.2.5 Organise for flushing of the lakes if tides and storm surge permit.
- 3.2.6 In consultation with an electrical contractor, ensure all gates and Rotork motors are functioning effectively. Also investigate whether adjusting the maximum and minimum allowable lake levels will assist with automatic water exchange.
- 3.2.7 Open the lakes only once testing indicates that water quality is within guideline limits for primary contact recreation.
- 3.2.8 Ensure that a record is maintained of all tests leading up to the contamination and those that follow, with such tests and the results being retained for ten (10) years as required under Clause 6.6 of Lake Waterway Management.
- 3.2.9 As new information is received the Manager Public Safety and Regulation or delegate will update services noted in item 3.1.2, with any information relevant to each, to maintain communication channels to the public.
- 3.2.10 Manager Operations to organise a visual check of the closure signage and bunting on beaches and reserves throughout closure period. Refer to attachment three (3) Closure Signage Check - Visual.

3.3 Reopening Notification

- 3.3.1. Manager Public Safety and Regulation or delegate to organise for waterway reopen notifications to be issued, as per items 3.1.2, 3.1.4, 3.1.5, 3.1.6. of this document.



3.3.2. Manager Operations to organise the removal of all closure signage and bunting from beaches and reserves.

4. Related Documents and References

- City of Victor Harbor Encounter Lakes Franklin Island Management Plan, Section 6 - Lake Waterway Management, Section 12 - Emergency Procedures.
- City of Victor Harbor Encounter Lakes/Franklin Island Inspection and Work Safety Procedures, AS.134, CO.187.3
- City of Victor Harbor Inspection and Maintenance of Lake Water Control Mechanisms.
- Australian & New Zealand Environment and Conservation Council's publication - Australian
- Water Quality Guidelines for Fresh and Marine Waters.
- SA Public Health Act 2011
- Lake Waterway Management

Encounter Lakes/Franklin Island Emergency

Administration Checklist

Date of Contamination Notification: _____

Notification of Internal Staff by Manager Public Safety and Regulation or delegate

Closure	Updates	Opening
<input type="checkbox"/> Chief Executive Officer <input type="checkbox"/> Communications Officer <input type="checkbox"/> SMT <input type="checkbox"/> Environmental Health Officer <input type="checkbox"/> Manager Operations <input type="checkbox"/> Manager Property, Environment and Recreation <input type="checkbox"/> Manager Infrastructure <input type="checkbox"/> Environment and Infrastructure Administration Officer <input type="checkbox"/> Customer Liaison Team Leader <input type="checkbox"/> Visitor Information Centre	<input type="checkbox"/> Chief Executive Officer <input type="checkbox"/> Communications Officer <input type="checkbox"/> SMT <input type="checkbox"/> Environmental Health Officer <input type="checkbox"/> Manager Operations <input type="checkbox"/> Manager Property, Environment and Recreation <input type="checkbox"/> Manager Infrastructure <input type="checkbox"/> Customer Service Staff <input type="checkbox"/> Visitor Information Centre <input type="checkbox"/> Office Staff (internal & external)	<input type="checkbox"/> Chief Executive Officer <input type="checkbox"/> Communications Officer <input type="checkbox"/> SMT <input type="checkbox"/> Environmental Health Officer <input type="checkbox"/> Manager Operations <input type="checkbox"/> Manager Property, Environment and Recreation <input type="checkbox"/> Manager Infrastructure <input type="checkbox"/> Environment and Infrastructure Administration Officer <input type="checkbox"/> Customer Liaison Team Leader <input type="checkbox"/> Visitor Information Centre

Notification of External Service by Manager Public Safety and Regulation or delegate

Based on contamination relevance as specified by the Director Environment and Infrastructure.

Closure	Updates	Opening
<input type="checkbox"/> Encounter Lakes Residents Group President <input type="checkbox"/> South Coast District Hospital <input type="checkbox"/> EPA <input type="checkbox"/> SA Police <input type="checkbox"/> SA Ambulance <input type="checkbox"/> Local Schools – Aquatics Program <input type="checkbox"/> Aquatic Permit Holders <input type="checkbox"/> Community group users <input type="checkbox"/> Encounter Lakes Reserve Hires scheduled <input type="checkbox"/> Nearby businesses; Boulevard Café, Encounters Conference Centre	<input type="checkbox"/> Encounter Lakes Residents Group President <input type="checkbox"/> South Coast District Hospital <input type="checkbox"/> EPA <input type="checkbox"/> SA Police <input type="checkbox"/> SA Ambulance <input type="checkbox"/> Local Schools – Aquatics Program <input type="checkbox"/> Aquatic Permit Holders <input type="checkbox"/> Community group users <input type="checkbox"/> Encounter Lakes Reserve Hires scheduled <input type="checkbox"/> Nearby businesses; Boulevard Café, Encounters Conference Centre	<input type="checkbox"/> Encounter Lakes Residents Group President <input type="checkbox"/> South Coast District Hospital <input type="checkbox"/> EPA <input type="checkbox"/> SA Police <input type="checkbox"/> SA Ambulance <input type="checkbox"/> Local Schools – Aquatics Program <input type="checkbox"/> Aquatic Permit Holders <input type="checkbox"/> Community group users <input type="checkbox"/> Encounter Lakes Reserve Hires scheduled <input type="checkbox"/> Nearby businesses; Boulevard Café, Encounters Conference Centre

Installation of Waterway Closure Signage

- Manager Operations notified
- Encounter Lakes Emergency Waterways Signage Checklist printed
- Closure Signage installed

Encounter Lakes Resident Letter Box Drop

(Properties fronting waterway only).

- Letter drafted and approved, saved to synergy, outgoing number placed on letter and completed
- Resident letter box drop

Media Notification (Communication's Officer to complete as directed by SMT)

- Public Notice
- Advertised in 'The Times' weekly Dates: _____
- Broadcast on local radio
- City of Victor Harbor website
- City of Victor Harbor Facebook page

Question and Answer Document

- Q&A Draft/Development
- Distribute to Customer Service

Contact Details:

- Encounter Lakes Residents Group; lakespresident@mail.com.
- Environment Protection Authority (EPA); ph 8204 2004 or epainfo@epa.sa.gov.au
- Encounter Lakes Paddling Inc; President Cathy Venning mobile 0408 803 8961
- Dragon Boat Paddling Club

- Schools:
 - Victor Harbor High School; ph 8551 1900 or email dl.0799_info@schools.sa.edu.au
 - Victor Harbor R-7 School; ph 8552 1166 or email info@victorr7.sa.edu.au
 - Investigator College, Victor Harbor; ph 8551 0900 or email victor@investigator.sa.edu.au
 - Encounter Lutheran College, Victor Harbor, ph (08) 7522 4313 or email admin@encounter.sa.edu.au
 - Victor Harbor Community Kindergarten; ph 8552 2028 or email kindy.director@victorkgn.sa.edu.au

- Nearby businesses:
 - Boulevard Café; ph 8552 5092 or post 41 Bartel Blvd, Victor Harbor
 - Encounters Conference Centre; ph 8552 2707 or email encounters@aus.salvationarmy.org



Encounter Lakes and Franklin Island Reserves





ADMINISTRATIVE PROCEDURE

Procedure Name **Encounter Lakes / Franklin Island Waterway Closure Signage Checklist**
 Department / Officer **Environment and Infrastructure**
 Date Adopted **August 2015**
 Date/s Reviewed **February 2020**

1. Purpose

To ensure Encounter Lakes/Franklin Island waterway closure signage is correctly installed, in the event of contamination as indicated by the City of Victor Harbor Encounter Lakes/Franklin Island Management Plan, Section 12 Emergency Procedures.

2. Operating Procedure

Manager Public Safety and Regulation or delegate to notify Manager Operations of lake closure. Manager Operations to arrange the placement of lake closure signage on Encounter Lakes/Franklin Island public beaches, and install safety bunting or PVC ribbon at all Encounter Lakes/Franklin Island lake access points (beaches and reserves with water frontages) to minimise the possibility of use.

Manager Operations to undertake daily visual inspections of signage and bunting/PVC ribbon to ensure still in place during closure period.

Manager Public Safety and Regulation or delegate to notify Manager Operations of lake re-opening. Manager Operations to arrange removal of all signage and bunting/PVC ribbon placed at beginning of closure period.

Date of Closure Notification: _____ Operations Manager: _____

Date Installed	John Simmons Park	C.M. Thorpe Park	JW Crompton Jnr Reserve	Bill W J White Reserve	Allenby Parsons Reserve	Aif Slegert Reserve	John Higgins Reserve	Brian Spillsbury Reserve	Herb HE Welch Reserve (both sides)	Pump Site Reserve

Date Checked	John Simmons Park	C.M. Thorpe Park	JW Crompton Jnr Reserve	Bill W J White Reserve	Allenby Parsons Reserve	Aif Slegert Reserve	John Higgins Reserve	Brian Spillsbury Reserve	Herb HE Welch Reserve (both sides)	Pump Site Reserve



Encounter Lakes / Franklin Island Waterway Closure Signage Checklist

Date of Removal: _____ Operations Manager: _____

3. Related Documents and References

City of Victor Harbor Encounter Lakes/Franklin Island Management Plan, Section 12
Emergency Procedures

DATE

File No:

Out No:

The Resident
Encounter Lakes and Franklin Island

Dear Resident

RE: ENCOUNTER LAKES AND FRANKLIN ISLAND WATERWAY CLOSURE

The City of Victor Harbor advises the Encounter Lakes and Franklin Island Waterways are closed for swimming (and recreational use) until further notice.

As a result of scheduled testing, Council received readings higher than the guideline value for:
.....

The contamination is likely to have occurred as a result of

The City of Victor Harbor will perform a flush of the lakes as soon as tide levels permit. Further testing will be undertaken at that time and if the water quality is within the safe threshold, the lakes will be re-opened. A further advisory notice will be issued by Council once water tests have been completed.

For additional information, representatives from Encounter Lakes Residents Group have offered time to assist with enquiries. They can be contacted via email at lakespresident@mail.com. Further contact information for the Encounter Lakes Residents Group can also be located on the City of Victor Harbor website www.victor.sa.gov.au

Thank you for your patience, you will be advised once the waterway has been re-opened for recreational activity.

Yours sincerely

Director Environment and Infrastructure