



**SOUTHERN SEAWATER DESALINATION PROJECT**  
**STATEMENT No. 792**  
**ASSESSMENT No. 1687**



**REPORTING PERIOD: 14 APRIL 2009 to 13 APRIL 2010**

**PERFORMANCE AND COMPLIANCE REPORT**

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## Attachments

CD-ROM: SSDP Performance and Compliance Report Supporting Evidence

## 1. INTRODUCTION

The Southern Seawater Desalination Project (SSDP) involves the construction and operation of a minimum 50 GL/annum and up to 100 GL/annum desalination plant on Lots 32 and 33 and Part Lot 8 Taranto Road, Binningup; marine inlet/outlet pipes; and a water supply pipeline to transport potable water to the Integrated Water Supply Scheme via a storage facility near Harvey.

### 1.1 ENVIRONMENTAL APPROVALS

In July 2007 the Water Corporation referred the proposal to construct and operate the SSDP to the Environmental Protection Authority (EPA) for assessment under Section 38 of the *Environmental Protection Act 1986*. It was formally assessed at the level of Public Environmental Review (PER) under the State process. The Proposal was approved by the Minister of Environment with Ministerial Statement 792 (MS792) published on 14 April 2009.

The SSDP proposal was subsequently referred to the Department of Environment, Water, Heritage and Arts (DEWHA) for consideration of whether it constituted a Controlled Action and therefore required assessment under the *Environmental Protection and Biodiversity Act* (EPBC Act). DEWHA deemed that the SSDP has the potential to significantly impact on Matters of National Environmental Significance (NES) protected under the EPBC Act; in particular, threatened species and listed migratory species. A Commonwealth Public Environmental Review (cPER) was determined as the appropriate assessment approach by the DEWHA to allow a full assessment of the Proposal. DEWHA granted conditional environmental approval for the SSDP on 24 June 2009.

### 1.2 PROPONENT

As identified in MS 792, the Water Corporation is the proponent for the SSDP.

The Southern Seawater Alliance (SSWA) has been commissioned to design, construct and operate the desalination plant. The SSWA is an alliance between the Water Corporation and the Southern Seawater Joint Venture (SSJV). The SSJV consists of Tecnicas Reunidas, Valoriza Agua, AJ Lucas and WorleyParsons. The pipeline between the desalination plant and the Harvey Summit Tank, and the Harvey Summit Tank is being constructed by Georgiou Group.

### 1.3 SCOPE AND PURPOSE

This Performance Compliance Report (PCR) is the first PCR that has been prepared for the SSDP and covers the reporting period 14 April 2009 to 13 April 2010.

This PCR has been prepared in accordance with the following:

- Ministerial Compliance Reporting (Aqua Doc 579670), developed using guidance from DEC Compliance Monitoring and Reporting – Guidelines for Proponents: Performance and Compliance Reports and with OEPA

Compliance Monitoring and Reporting – Guidelines for Proponents: Preparing an Audit Table – Draft (December 2009).

- Southern Seawater Desalination Project Compliance Assessment Plan (Aqua Doc 3064381), endorsed by the OEPA in letter dated 18/03/2010 (DEC11361).

## 2. CURRENT STATUS

Construction of the SSDP has substantially commenced. The following components of the proposal and their current status are as follows:

- Design
  - The overall engineering design is 95% complete
- Plant Construction
  - Clearing of the site commenced 22 July 2009 and is complete
  - Bulk earthworks are well underway; the noise berm is 80% complete
  - Dewatering commenced on the site on 4 February 2010 and it is estimated that 50% of dewatering activities have been completed
  - Foundations for the reverse osmosis (RO) and microfiltration (MF) buildings are largely complete and structural steel is being erected
  - The foundations of the Intake Pump Station are close to completion and the commencement of tunnelling is imminent.
- Pipeline Construction
  - 86% of the pipeline has been constructed, the remaining works to be completed include:
    - the section between South West Highway and the Harvey Summit Tank
    - Yambellup Road
    - the thrust boring under the Old Coast Road and South West Highway
    - the gas crossing on Boonilup Road
- Harvey Summit Tank
  - Excavation works are complete
  - Preparation of the foundation has commenced
  - Engineering design is almost complete

### **3. COMPLIANCE STATUS**

#### **3.1 NON-CONFORMANCES/NON-COMPLIANCES:**

There have not been any non-conformances or non-compliances with MS 792 conditions identified during the reporting period. The provision and status of this information is summarised in the Audit Table (Table 2) within this report. Where relevant, supporting evidence is provided in the attached CD ROM.

The Construction Environmental Management Framework (Aqua Doc 558434) continues to be implemented.

#### **3.2 INTERNAL / EXTERNAL AUDITS:**

During this reporting period, the Construction Environmental Management Framework (Aqua Doc 558434) was second party audited for the SSDP Plant Site on 22 – 23 September 2009 and 7 – 8 April 2010. The pipeline corridor was second party audited on 3 – 4 December 2009 and 30 April 2010. The Harvey Summit Tank was second party audited on 20 May 2010.

#### **3.3 COMPLAINTS REGISTER:**

There have been no complaints associated with the conditions of MS 792 during the reporting period.

There have been a total of 16 complaints or enquiries; of these, 8 were associated with the SSDP plant site and 8 for the pipeline corridor. The majority of complaints are noise or dust related. A summary of the complaints register is shown in Table 3.

### **4. ENVIRONMENTAL MONITORING AND RESEARCH**

There has been significant monitoring and research undertaken as part of the SSDP project to date. Monitoring of marine works has included dedicated visual monitoring of marine fauna by qualified and experienced marine mammal observers during blasting and construction activities. Deployment of various loggers and instrumentation into the marine environment to sample water quality and other characteristics continues.

Monitoring of clearing activities for flora and fauna at the SSDP plant site has been completed. Ongoing monitoring activities at the plant site include the monitoring and recording of fauna sightings, removals and deaths.

Most of the clearing activities along the pipeline corridor have been completed and monitoring activities were carried out to ensure activities were compliant with fauna and flora management measures.

A summary of the environmental monitoring undertaken over the reporting period is shown in Table 4. Reports and data detailed in Table 4 are provided in the attached CD-ROM.

## 5. STAKEHOLDER CONSULTATION

The Water Corporation is committed to an extensive community relations program with regards to the SSDP. Consultation with key stakeholders and the community on the plant and pipeline and associated works occurs frequently. Specific groups that were consulted during this period include:

### **Community Groups**

Community Reference Group (represents seven community groups)  
Binningup Coastcare & Environment Group  
Binningup Desalination Action Group (now disbanded)

### **Government Agencies (State and Federal)**

Department of Water, Heritage and the Arts (DEWHA)  
Environmental Protection Authority  
Department of Environment and Conservation  
Department of Water  
Department of Transport  
Department of Fisheries  
Department of Health  
Fire and Emergency Services of Authority WA (FESA)  
Western Australian Planning Commission (WAPC)

### **Local Government**

Shire of Harvey

### **Others**

Bunbury Port Authority  
Fremantle Port Authority  
Western Australian Fishing Industry Council (WAFIC)  
Binningup Surf Life Saving Club  
Harvey Districts Water Sports Club  
Murdoch University Cetacean Research Unit  
Bunbury Dolphin Discovery Centre  
Centre for Marine Science and Technology - Curtin University  
Western Whale Research

This PCR will be published on the Water Corporation website ([http://www.watercorporation.com.au/D/desal2\\_environmentalreports.cfm](http://www.watercorporation.com.au/D/desal2_environmentalreports.cfm)).

Availability will be consistent with OEPA's expectation that reports are publically available for at least 5 years and up to the life of the project.

## 6. TABLES

The following tables are included in this PCR to demonstrate compliance:

Table 1: Status description used in the OEPA audit table

Table 2: OEPA Audit Table

Table 3: Community Complaints and Enquiries Register

Table 4: Summary of environmental monitoring performed during the reporting period

## 7. REFERENCES

Department of Environment and Conservation (DEC), 2009. Compliance Monitoring and Reporting – Guidelines for Proponents: Performance and Compliance Reports

Office of the Environmental Protection Agency (OEPA), 2009. Compliance Monitoring and Reporting – Guidelines for Proponents: Preparing an Audit Table – Draft, December 2009.

Water Corporation, 2009. Construction Environmental Management Framework (Aqua Doc 558434), January 2009.

Water Corporation, 2009. Ministerial Compliance Reporting (Aqua Doc 579670), 14 December 2009.

Water Corporation, 2010. Southern Seawater Desalination Project Compliance Assessment Plan (Aqua Doc 3064381), 26 February 2010.

**Table 1: Status Description Used in the OEPA Audit Table**

| Status                     | Acronym | Criteria   |
|----------------------------|---------|--|
| Compliant                  | C       | Sufficient evidence available to confirm requirements have been met. |
| Non-Compliant              | NC      | Requirements have not been met.                                      |
| Verification Required      | VR      | Lack sufficient evidence and require verification.                   |
| Completed                  | CLD     | Compliant and no ongoing requirements.                               |
| Not Required at this Stage | NR      | Implementation not required due to project phase.                    |
| Not Audited                | NA      | Requirements not subject to OEPA audit.                              |
| In Process                 | IP      | Approval (e.g. management plan) by OEPA or other government agency.  |

- Note:**
- Phases that apply in this table = **Pre-Construction, Construction, Post-Construction, Operation, Decommissioning, Overall (several phases)**
  - This audit table is a summary and timetable of conditions and commitments applying to this project. Refer to the Minister's Statement for full detail/precise wording of individual elements.
  - Code prefixes: M = Minister's condition; P = Proponent's commitment; A = Audit specification; N = Procedure.
  - Any elements with status = "Audited by proponent only" are legally binding but are not required to be addressed specifically in compliance reports, if complied with.
  - Acronyms list:- Min for Env = Minister for the Environment; CEO = Chief Executive Officer of DEC; DEC = Department of Environment and Conservation; DMP = Department of Mining and Petroleum; EPA = Environmental Protection Authority; DoH = Department of Health; DoW = Department of Water.

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number   | Subject   | Action   | How  | Evidence   | Satisfy     | Advice | Phase   | When                          | Status |
|----------|---|--|--|--|-------------|--------|---------|-------------------------------|--------|
| 792:M1.1 | <b>Proposal Implementation</b>                  | The proponent shall implement the proposal as assessed by the Environmental Protection Authority and described in schedule 1 and 2 of this statement subject to the conditions and procedures of this statement.   | Annual Performance Compliance Reports (ref Condition M4.6 demonstrating implementation submitted; the first submitted by 14 June 2010.                       | DEC acknowledgement that PCRs are received on/before 14 June each year will show compliance.   | Min for Env | N/A    | Overall | Ongoing                       | IP     |
| 792:M2.1 | <b>Proponent Nomination and Contact Details</b> | The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the <i>Environmental Protection Act 1986</i> is responsible for the implementation of the proposal.  | Annual Performance Compliance Reports (ref Condition M4.6) identifying the name of the responsible proponent submitted; the first submitted by 14 June 2010. | The proponent is the Water Corporation and this has not changed over this reporting period.<br>DEC acknowledgement of receipt of PCRs on/before 14 June each year will show compliance.  | Min for Env | N/A    | Overall | Ongoing                       | IP     |
| 792:M2.2 | <b>Proponent Nomination and Contact Details</b> | The proponent shall notify the Chief Executive Officer (CEO) of the Department of Environment and Conservation of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.  | Notification advising changes submitted.   | The proponent is the Water Corporation and this has not changed over this reporting period.  | DEC         | N/A    | Overall | Within 30 days of such change | NR     |
| 792:M3.1 | <b>Time Limit of Authorisation</b>              | The authorisation to implement the proposal provided for in this statement shall lapse and be void within five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.  | First Performance Compliance Report (ref Condition M4.6) demonstrating substantial commencement submitted.   | The proposal was substantially commenced during this reporting period.<br>DEC acknowledgement of receipt of this PCR on/before 14 June 2010 will show compliance.  | Min for Env | N/A    | Overall | On or before 21 May 2014      | IP     |
| 792:M3.2 | <b>Time Limit of Authorisation</b>              | The proponent shall provide the CEO of the Department of Environment and Conservation with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.  | First Performance Compliance Report (ref Condition M4.6) demonstrating substantial commencement submitted.   | The proposal was substantially commenced during this reporting period.<br>DEC acknowledgement of receipt of this PCR on/before 14 June 2010 will show compliance.  | DEC         | N/A    | Overall | On or before 14 April 2014    | IP     |
| 792:M4.1 | <b>Compliance Reporting</b>                     | The proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the CEO of the Department of Environment and Conservation.  | Compliance Assessment Plan, submitted by 14 October 2009 (ref Condition M4.2).   | Southern Seawater Desalination Project Compliance Assessment Plan (Aqua Doc 3064381) (Water Corporation, 26 February 2010), endorsed by the OEPA in letter dated 18/03/2010 (reference DEC11361).<br>See: <a href="#">Supporting Evidence\792 M4</a> | DEC         | N/A    | Overall | Ongoing                       | C      |
| 792:M4.2 | <b>Compliance Reporting</b>                     | The proponent shall submit to the CEO of the Department of Environment and Conservation, the compliance assessment plan required by condition 4-1 at least 6 months prior to the first compliance report required by condition 4-6. Compliance assessment plan shall indicate:<br><br>1. frequency of compliance reporting;<br>2. approach and timing of compliance assessments;<br>3. retention of compliance assessments;<br>4. reporting of potential non-compliances and corrective actions taken;<br>5. table of contents of compliance reports; and<br>6. public availability of compliance reports. | Compliance Assessment Plan (ref Condition M4.1) indicating items 1-6 submitted.  | Southern Seawater Desalination Project Compliance Assessment Plan (Aqua Doc 3064381) (Water Corporation, 26 February 2010), endorsed by the OEPA in letter dated 18/03/2010 (reference DEC11361).<br>See: <a href="#">Supporting Evidence\792 M4</a> | DEC         | N/A    | Overall | By 14 October 2009            | CLD    |

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| Number   | Subject                     | Action  | How   | Evidence  | Satisfy | Advice | Phase   | When                            | Status |
|----------|-----------------------------|---|---|---|---------|--------|---------|---------------------------------|--------|
| 792:M4.3 | <b>Compliance Reporting</b> | The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.  | Performance Compliance Report consistent with Condition M4.2 undertaken.                                    | DEC acknowledgement of receipt of PCRs on/before 14 June each year will show compliance.<br><br>The first PCR (this report) is due 14 June 2010.  | DEC     | N/A    | Overall | Ongoing                         | IP     |
| 792:M4.4 | <b>Compliance Reporting</b> | The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4.1 and shall make those reports available when requested by the CEO of the Department of Environment and Conservation.  | Reports pertaining to assessments of compliance (ref Condition M4.2) registered in document control system. | PCRs will be published on the Water Corporation website. Availability will be consistent with OEPA's expectation that reports are publically available for at least 5 years and up to the life of the project.<br><br>The first PCR (this report) is due 14 June 2010.  | DEC     | N/A    | Overall | Ongoing                         | IP     |
| 792:M4.5 | <b>Compliance Reporting</b> | The proponent shall advise the CEO of the Department of Environment and Conservation of any potential non-compliance as soon as practicable.  | Notifications advising potential non-compliances submitted.   | There have been no potential non-compliances during the reporting period.   | DEC     | N/A    | Overall | As soon as practicable.         | C      |
| 792:M4.6 | <b>Compliance Reporting</b> | The proponent shall submit a compliance assessment report annually from the date of issue of the Implementation Statement No. 792 addressing the previous twelve month period or as agreed by the CEO of the Department of Environment and Conservation. The compliance assessment report shall:<br><br><ol style="list-style-type: none"> <li>1. be endorsed by the proponent's Managing Director or a person, approved in writing by the Department of Environment and Conservation, delegated to sign on the Managing Director's behalf;</li> <li>2. include a statement as to whether the proponent has complied with the conditions Review;</li> <li>3. identify all potential non-compliances and describe corrective and preventative actions taken;</li> <li>4. be made publicly available in accordance with the approved compliance assessment plan; and</li> <li>5. indicate any proposed changes to the compliance assessment plan required by condition 4-1</li> </ol> | Annual compliance assessment reports covering items 1-5 submitted.  | PCRs will be prepared in accordance with the Southern Seawater Desalination Project Compliance Assessment Plan (Aqua Doc 3064381) (Water Corporation, 26 February 2010), endorsed by the OEPA in letter dated 18/03/2010 (reference DEC11361).<br><br>See: <a href="#">Supporting Evidence\792 M4</a><br><br>DEC acknowledgement of receipt of PCRs on/before 14 June each year will show compliance.<br><br>The first PCR (this report) is due 14 June 2010. | DEC     | N/A    | Overall | Annually, by 14 April each year | IP     |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number     | Subject                                 | Action  | How  | Evidence  | Satisfy     | Advice | Phase        | When   | Status |
|------------|---|---|--|---|-------------|--------|--------------|--|--------|
| 792:M5.1   | <b>Performance Review and Reporting</b> | <p>The proponent shall submit to the CEO of the Department of Environment and Conservation Performance Review Reports at the conclusion of the second, fourth and sixth years after the commencement of operation and then, at such intervals as the CEO of the Department of Environment and Conservation may regard as reasonable, which address:</p> <ol style="list-style-type: none"> <li>the major environmental risks and impacts; the performance objectives, standards and criteria related to these; the success of risk reduction/impact mitigation measures and results of monitoring related to the management of the major risks and impacts;</li> <li>the level of progress in the achievement of best practice environmental performance, including industry benchmarking, and the use of best available technology where practicable; and</li> <li>improvements gained in environmental management which could be applied to this and other similar projects.</li> </ol> | Performance reports covering items 1-3 submitted.                          | DEC acknowledgements of receipt of reports.   | DEC         | N/A    | Operation    | Two, four and six years after commencement of operation; then at intervals regarded as reasonable by CEO of DEC. | NR     |
| 792:M6.1   | <b>Water Quality and Marine Biota</b>   | The proponent shall ensure the Low Ecological Protection Area does not exceed 100 metres by 600 metres (50 metres either side of the diffuser array) as shown in Figure 1, schedule 2.  | Assessments of compliance consistent with Condition M4.2 undertaken.       | DEC acknowledgements of receipt of reports.   | Min for Env | N/A    | Operation    | Ongoing  | NR     |
| 792:M6.2   | <b>Water Quality and Marine Biota</b>   | <p>To achieve the Environmental Quality Objectives (EQOs) established by the Environmental Protection Authority (schedule 2) for the surrounding marine environment, including the Low Ecological Protection Area/discharge zone, the proponent shall prepare and implement a Marine Environment Monitoring Program to the satisfaction of the Chairman of the Environmental Protection Authority on the advice of the CEO of the Department of Environment and Conservation.</p> <p>The Marine Environment Monitoring Program shall:</p>   | Marine Environment Monitoring Program (MEMP) covering items 1-6 submitted. |   | EPA         | DEC    | (as follow)  |  |        |
| 792:M6.2.1 |   | <ol style="list-style-type: none"> <li>prior to discharges to the marine environment, identify the chemicals and pH present in the pressure test and disinfection water to be discharged during construction and operation, and establish its toxicity to freshwater and marine environments consistent with the recommended approaches in ANZECC/ARMCANZ 2000*;</li> </ol>   |  | The Marine Environmental Monitoring Program (Aqua Doc 2337504) was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DEC11402).<br>See: <a href="#">Supporting Evidence\792 M6\M6.2</a> |             |        | Construction | Prior to discharges to the marine environment.   | CLD    |
| 792:M6.2.2 |   | <ol style="list-style-type: none"> <li>prior to discharges to the marine environment, identify the discharge point and rate of discharge for the pressure test and disinfection water and, based on the levels of ecological protection to be achieved in the marine environment (see schedule 2) and a 95% species protection in the Harvey Main Drain, the predicted zones of mortality, effect (but not mortality) and influence (i.e. above background), as well as the rate of recovery;</li> </ol>  |  | The Marine Environmental Monitoring Program (Aqua Doc 2337504) was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DEC11402).<br>See: <a href="#">Supporting Evidence\792 M6\M6.2</a> |             |        | Construction | Prior to discharges to the marine environment.   | CLD    |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number         | Subject                               | Action   | How   | Evidence   | Satisfy | Advice | Phase                      | When  | Status |
|----------------|---------------------------------------|--|---|--|---------|--------|----------------------------|---|--------|
| 792:M6.2<br>.3 |                                       | 3. establish existing benthic community composition and health prior to marine construction and then monitor benthic community composition and health annually after construction to determine impact and recovery;  |   | The mapping and health surveys of the existing benthic community performed by Oceanica ( <i>Binningup Desalination Plant Binningup Habitat Mapping FINAL July 2008</i> , and <i>Southern Seawater Desalination Plant (SSDP) baseline habitat health monitoring Data Report May 2009</i> ) was deemed to satisfy condition 6-2(3) by the DEC in letter dated 06/11/2009 (reference DEC11402).<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.2</a> |         |        | Construction and Operation | Prior to marine construction; then annually.            | CLD    |
| 792:M6.2<br>.4 |                                       | 4. prior to discharges to the marine environment, identify environmental quality indicators and associated "trigger" levels, based on the guidelines and recommended approaches in ANZECC/ARMCANZ 2000* and its updates, for assessing the performance of the discharges (with the exception of salinity where the agreed trigger levels are 1 parts per thousand (ppt) salinity increase above background 95% of the time and not exceeding an increase of 1.3 ppt above background at the boundary of the Low Ecological Protection Area) in meeting the EQOs, (see schedule 2); |   | The Marine Environmental Monitoring Program (Aqua Doc 2337504) was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DEC11402).<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.2</a>  |         |        | Construction               | Prior to discharges to the marine environment.          | CLD    |
| 792:M6.2<br>.5 |                                       | 5. prior to discharges to the marine environment, design and employ protocols and schedules for reporting performance against the EQOs using the environmental quality "trigger" levels for discharges identified in condition 6-2-4 and the salinity trigger level of not exceeding 1 ppt salinity increase 95% of the time and never exceeding 1.3 ppt at the boundary of the Low Ecological Protection Area; and  |   | The Marine Environmental Monitoring Program (Aqua Doc 2337504) was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DEC11402).<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.2</a>  |         |        | Construction               | Prior to discharges to the marine environment.          | CLD    |
| 792:M6.2<br>.6 |                                       | 6. specify that monitoring shall be conducted for twelve months following completion of commissioning (commissioning shall not exceed six months) and twelve months following the initiation of full production (according to design specifications).<br><br>* - <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i> , ANZECC/ARMCANZ, 2000.   |   | The Marine Environmental Monitoring Program (Aqua Doc 2337504) was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DEC11402).<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.2</a>  |         |        | Construction and Operation | Prior to discharges to the marine environment.          | CLD    |
| 792:M6.3       | <b>Water Quality and Marine Biota</b> | The proponent shall submit the results of the Marine Environment Monitoring Program, required by condition 6-2, to the CEO of the Department of Environment and Conservation within three months following of the finalisation of each element.  | Results from MEMP elements (ref Condition M6.2) submitted.  | DEC acknowledgements of receipt of submissions.  | DEC     | N/A    | Operation                  | Within 3 months following finalisation of each element. | NR     |
| 792:M6.4       | <b>Water Quality and Marine Biota</b> | If the Marine Environment Monitoring Program required in condition 6-2 demonstrates that the environmental quality "trigger" levels (as determined through condition 6-2) are not met, the proponent shall immediately report to the CEO of the Department of Environment and Conservation with the remedial management and/or preventative actions to be implemented.   | Notifications advising that MEMP is demonstrating that environmental quality trigger levels (ref Condition M6.2) not met and actions to be implemented submitted. | DEC acknowledgements of receipt of notifications.  | DEC     | N/A    | Operation                  | Immediately after becoming aware trigger value not met. | NR     |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number   | Subject                               | Action   | How   | Evidence  | Satisfy     | Advice | Phase     | When  | Status |
|----------|---------------------------------------|--|---|---|-------------|--------|-----------|---|--------|
| 792:M6.5 | <b>Water Quality and Marine Biota</b> | The proponent shall monitor dissolved oxygen levels at least weekly, either by deploying data loggers or by hand, at sites agreed by the CEO of the Department of Environment and Conservation to determine whether the "trigger" values are being achieved, for a period of 12 months immediately following: <ul style="list-style-type: none"> <li>Completion of commissioning phase or six months from commencement of the commissioning phase, whichever is sooner; and</li> <li>The initiation of full production (according to design specifications).</li> </ul>  | Dissolved oxygen monitoring program submitted and monitoring re trigger values implemented. | Dissolved Oxygen Monitoring Program (Aqua Doc 2337503) has been developed and will be implemented.<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.5</a><br><br>DEC to acknowledge receipt of report.     | DEC         | N/A    | Operation | For 12-months immediately following:<br><br><ul style="list-style-type: none"> <li>Completion of commissioning phase (or 6-months from commencement of commissioning phase, whichever is sooner); and</li> <li>Initiation of full production (according to design specifications).</li> </ul> | NR     |
| 792:M6.6 | <b>Water Quality and Marine Biota</b> | The proponent shall report the results of the dissolved oxygen monitoring required in condition 6-5 to the CEO of the Department of Environment and Conservation within three months following the finalisation of each twelve month monitoring period as outlined in condition 6-5.   | Results of dissolved oxygen monitoring (ref Condition M6.5.) reported.                      | DEC acknowledgements of receipt of reports.   | DEC         | N/A    | Operation | Within 3 months following the finalisation of each 12-month period (ref Condition M6.5).  | NR     |
| 792:M6.7 | <b>Water Quality and Marine Biota</b> | If the dissolved oxygen concentrations as measured according to condition 6-5 fall below 60% saturation at the boundary of the Low Ecological Protection Area, the proponent shall, within twenty-four hours, report to the CEO of the Department of Environment and Conservation and provide management measures which will be implemented to minimise any potential effects of the discharge.  | Notifications advising low dissolved oxygen and actions to be implemented submitted.        | DEC acknowledgements of receipt of notifications.   | DEC         | N/A    | Operation | Within 24-hours of becoming aware.  | NR     |
| 792:M6.8 | <b>Water Quality and Marine Biota</b> | The proponent shall verify diffuser performance in terms of achieving the required number of initial dilutions under a range of flow rates, low energy/calm meteorological and sea-state conditions to achieve a high level of ecosystem protection (99% species protection as defined by ANZECC/ARMCANZ 2000* for toxicants and 1 ppt 95% of the time for salinity) at the edge of the Low Ecological Protection Area (i.e. 50 metres either side of the diffuser array) for a period of 12 months immediately following: <ul style="list-style-type: none"> <li>Completion of commissioning phase or six months from commencement of the commissioning phase, whichever is sooner; and</li> <li>The initiation of full production (according to design specifications).</li> </ul> <p>* Australian and New Zealand Guidelines for Fresh and Marine Water Quality, ANZECC/ARMCANZ, 2000</p> | Diffuser performance monitoring program implemented; results reported.                      | Diffuser Performance Monitoring Program (Aqua Doc 2337502) has been developed and will be implemented.<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.8</a><br><br>DEC to acknowledge receipt of report. | Min for Env | N/A    | Operation | For 12-months following:<br><br><ul style="list-style-type: none"> <li>Completion of commissioning phase (or 6-months from commencement of commissioning phase, whichever is sooner); and</li> <li>Initiation of full production (according to design specifications).</li> </ul>             | NR     |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number         | Subject                               | Action  | How   | Evidence  | Satisfy     | Advice | Phase                       | When   | Status         |
|----------------|---------------------------------------|---|---|---|-------------|--------|-----------------------------|--|----------------|
| 792:M6.9<br>.1 | <b>Water Quality and Marine Biota</b> | Prior to commissioning, the proponent shall conduct Whole Effluent Toxicity testing of wastewater, consistent with a Toxicity and Testing protocol based on Section 4 of the Southern Seawater Desalination Project Operational Environmental Management Framework, to the satisfaction of the CEO of the Department of Environment and Conservation.   | Whole Effluent Toxicity (WET) testing program submitted. Pre-commissioning test undertaken; results reported (ref Condition M6.11). | In a letter dated 03/06/2010 the Water Corporation requested that the OEPA facilitate through the Minister a Section 46C minor amendment to this condition to address the ambiguity regarding the "prior to commissioning" requirement for WET testing. The Water Corporation is awaiting a response from the OEPA.<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.9</a> | DEC         | N/A    | Construction                | Prior to commissioning.<br><br>Results submitted within 6-weeks of initiation of test.   | (Under Review) |
| 792:M6.9<br>.2 |                                       | The proponent shall conduct Whole Effluent Toxicity testing of wastewater consistent with the toxicity and testing protocol at the following intervals:<br><br>One month following the initiation of the commissioning phase;<br><br><ul style="list-style-type: none"> <li>12 months following the completion of commissioning or 18 months following the initiation of commissioning (whichever occurs first); and</li> <li>12 months following the commencement of full production.</li> </ul>   | Commissioning, Operation, Full Production WET testing undertaken; results reported (ref Condition M6.11).                           | DEC acknowledgements of receipt of reports.   | DEC         | N/A    | Commissioning and Operation | <ul style="list-style-type: none"> <li>1-month following initiation of commissioning;</li> <li>12-months following completion of commissioning or 18-months following initiation of commissioning (whichever occurs first); and</li> <li>12-months following commencement of full production</li> </ul> Results submitted within 6-weeks of initiation of tests. | NR             |
| 792:M6.1<br>0  | <b>Water Quality and Marine Biota</b> | Prior to operation, the proponent shall identify management measures that will be implemented in the event that the Whole Effluent Toxicity testing results show that the original wastewater diffuser is not achieving sufficient dilutions to meet a high level of ecological protection at the edge of the Low Ecological Protection Area under all wastewater flow and oceanographic conditions.  | Management plan submitted.  | Whole Effluent Toxicity Monitoring Program (Aqua Doc 2337505) has been developed and will be implemented.<br><br>See: <a href="#">Supporting Evidence\792 M6\M6.9</a><br><br>DEC to acknowledge of receipt of report.   | Min for Env | N/A    | Construction                | Prior to operation.  | NR             |
| 792:M6.1<br>1  | <b>Water Quality and Marine Biota</b> | The proponent shall submit the results of the Whole Effluent Toxicity testing required in condition 6-9 to the CEO of the Department of Environment and Conservation within six months of the initiation of each test.  | Wet testing results (ref Condition M6.9) submitted.   | DEC acknowledgements of receipt of reports.   | DEC         | N/A    | Overall                     | Within 6-months of initiation of each test.  | NR             |
| 792:M6.1<br>2  | <b>Water Quality and Marine Biota</b> | Subject to the outcome of the Marine Environment Monitoring Program required by condition 6-2, the outcome of the dissolved oxygen monitoring required by condition 6-5, the verification of diffuser performance as determined in accordance with condition 6-8 and the Whole Effluent Toxicity testing required by condition 6-9, the monitoring and reporting requirements shall be reviewed and potentially amended by the CEO of the Department of Environment and Conservation on advice of the Environmental Protection Authority. | Revised MEMP submitted.   | DEC acknowledgement of receipt of submission.   | DEC         | EPA    | Overall                     | Ongoing  | NR             |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number   | Subject               | Action  | How  | Evidence   | Satisfy     | Advice | Phase                             | When  | Status |
|----------|-----------------------|---|--|--|-------------|--------|-----------------------------------|---|--------|
| 792:M7.1 | <b>Marine Mammals</b> | At least one week prior to the commencement of the construction of the seawater pipelines, the proponent shall implement a temporary cetacean exclusion zone covering the marine area at least 1 kilometre from any point of the pipeline alignment as defined in schedule 2. The temporary exclusion zone shall be demarcated with marker buoys placed at a minimum of 500 metre intervals along the boundary of the temporary exclusion zone. Additional buoys shall be placed 1.5 kilometres from any point of the pipeline alignment as defined in Figure 1, Schedule 2 to assist marine mammal observers* determine the proximity of any cetaceans or pinnipeds observed.            | Digital images or statement from DEC officer submitted to verify implementation of seawater pipeline construction management plan covering requirements. | Seawater Pipeline Installation Environment Management Plan (Aqua Doc 2627211) developed and implemented.<br><br>Marine buoys were installed on 16/02/2010 and marine construction activities commenced 07/03/2010. The location of and completion dates of the buoys were certified in completion letter provided by marine subcontractor (Dempsey Australia) who performed the installation (reference DA-LTR-001).<br><br>SSWA surveyor verified the locations on 23/02/2010 and provided a letter of verification to the Water Corporation (reference SSWA letter dated 04/03/2010).<br><br>See: <a href="#">Supporting Evidence\792 M7</a> | Min for Env | N/A    | Pre-construction and Construction | At least 1-week prior to commencement of construction of seawater pipelines   | C      |
| 792:M7.2 | <b>Marine Mammals</b> | Visual monitoring for the presence of marine mammals within 2 kilometre radius of the active blasting area shall be undertaken by a qualified marine mammal observer*. Visual monitoring shall commence at least 60 minutes prior to each blast using binoculars and the naked eye from a survey vessel positioned within 500 metres of the drill and blast area. Visual monitoring shall continue until the blast has been detonated.<br><br>* A marine mammal observer means a person qualified and experienced in identifying marine fauna, estimated distances and interpreting fauna behaviour. It is suggested that approximately five years relevant experience would be adequate. | Report on all recorded sightings submitted (ref Condition M7.6).   | DEC acknowledgement of receipt of report.  | DEC         | N/A    | Construction                      | At least 60-minutes prior to each blast; until the blast has been detonated.<br><br>Report provided within 3-months following the completion of construction of the seawater pipeline (ref Condition M7.6).           | NR     |
| 792:M7.3 | <b>Marine Mammals</b> | If cetaceans or pinnipeds are observed within a 2 kilometre radius of the blast areas their movements shall be closely observed by one support vessel. If a marine mammal enters within a 1 kilometre radius of the blast area blasting shall cease. Blasting shall only resume when all marine mammals are outside a 1 kilometre radius from the blast area, or not less than thirty minutes have passed since the last sighting.  | Report on all recorded sightings submitted (ref Condition M7.6).   | DEC acknowledgement of receipt of report.  | DEC         | N/A    | Construction                      | If cetaceans or pinnipeds are observed within a 2-kilometre radius of the blast areas.<br><br>Report provided within 3-months following the completion of construction of the seawater pipeline (ref Condition M7.6). | NR     |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number   | Subject                                 | Action   | How  | Evidence   | Satisfy     | Advice | Phase                             | When  | Status      |
|----------|---|--|--|--|-------------|--------|-----------------------------------|---|-------------|
| 792:M7.4 | <b>Marine Mammals</b>                   | At least one week prior to the commencement of the construction of the seawater pipelines, the proponent shall implement and demarcate a temporary marine animal beach exclusion zone nominally 200 metres north and 200 metres south of the pipeline alignment on the beach. If marine animals are sighted in this zone, the proponent shall implement measures to prevent construction activities from causing any distress or physical harm, or cease construction activities if necessary.   | Report on all recorded sightings submitted and management measures implemented (ref Condition M7.6). | The seawater pipelines are being installed using microtunnelling which does not require any disruption to the beach. Therefore, dedicated monitoring of the beach for marine mammals is not required. Marine mammal monitoring is being performed via an ocean survey vessel in accordance with Conditions M7.1, 7.2 and 7.3.<br><br>DEC acknowledgement of receipt of sighting reports. | DEC         | N/A    | Pre-construction and Construction | At least 1-week prior to the commencement of construction of the seawater pipelines.<br><br>Report provided within 3-months following the completion of construction of the seawater pipeline (ref Condition M7.6). | C<br><br>NR |
| 792:M7.5 | <b>Marine Mammals</b>                   | The proponent shall investigate and report within 14 days, any marine animal observed to be in distress as a result of construction activities to the Chief Executive Officer of the Department of Environment and Conservation (Wildcare Hotline and DEC Duty Officer) and the actions taken, including any modifications to the implementation of the proposal.  | Results of investigation and actions taken reported.   | No marine animal has been observed to be in distress as a result of construction activities during the reporting period.   | DEC         | N/A    | Construction                      | Within 14-days of observation.  | C           |
| 792:M7.6 | <b>Marine Mammals</b>                   | Within three months following the completion of construction of the seawater pipeline, the proponent shall provide a report on all recorded sightings required by conditions 7-2, 7-3, 7-4 and 7-5, to the CEO of the Department of Environment and Conservation.  | Report on all recorded sightings (ref Conditions M7.2, M7.3, M7.4 and M7.5) submitted.               | DEC acknowledgement of receipt of report.  | DEC         | N/A    | Construction                      | Within 3-months following the completion of construction of the seawater pipeline.  | NR          |
| 792:M8.1 | <b>Terrestrial Fauna</b>                | During the construction of the desalination project the proponent shall, every six months, provide a report on the management measures taken to prevent the death of native fauna within the pipeline corridor (including fauna trench inspections) and the plant site, to the CEO of the Department of Environment and Conservation.  | Reports on fauna protection management measures submitted.   | The first Terrestrial Fauna Management Report (Aqua Doc 3091862) acknowledged by EPA in letter dated 08/02/2010 (reference DOC1184100).<br><br>See: <a href="#">Supporting Evidence\792 M8</a><br><br>The next 6 monthly report is due 14 July 2010. DEC acknowledgement of receipt of future reports will show continued compliance.  | DEC         | N/A    | Construction                      | Every 6-months during construction.   | C           |
| 792:M8.2 | <b>Terrestrial Fauna</b>                | Within one month following the completion of construction of the desalination plant, the proponent shall re-instate the north-south possum movement linkage across the plant site to permit the free movement of possums.  | Digital images or statement from DEC officer submitted to verify reinstatement of fauna corridor.    | DEC acknowledgement of receipt of submission.  | Min for Env | N/A    | Construction and Operation        | Within 1-month following completion of construction of the desalination plant.  | NR          |
| 792:M9.1 | <b>Terrestrial Flora and Vegetation</b> | Based on the results of the existing declared rare flora (DRF), priority flora, and threatened and priority ecological community surveys* and the proposed survey in Spring 2008, the proponent shall provide evidence to the CEO of the Department of Environment and Conservation that the pipeline construction corridor has been located to avoid and/or minimise the identified populations of DRF prior to commencing construction.<br><br>* - Southern Seawater Desalination Plant: 2007 Terrestrial Flora and Fauna Survey, 360 Environmental, January 2008. | Relevant information provided.   | The Water Corporation submitted this information in letter dated 25 June 2009 (reference JT 2007 07426 V02).<br><br>DEC acknowledgement of receipt of information in letter dated 03/07/2009 (reference 3 July 2009 Anthony Sheehan).<br><br>See: <a href="#">Supporting Evidence\792 M9\M9.1</a>  | DEC         | N/A    | Pre-construction                  | Prior to commencing construction.   | CLD         |

**Table 2: OEPA Audit Table**

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| Number   | Subject                                 | Action   | How  | Evidence   | Satisfy | Advice | Phase             | When   | Status |
|----------|---|--|--|--|---------|--------|-------------------|--|--------|
| 792:M9.2 | <b>Terrestrial Flora and Vegetation</b> | At least three months prior to commencement of construction, the proponent shall prepare a map with GIS coordinates which demonstrates the avoidance and minimisation of impacts upon Declared Rare Flora, Priority flora, Threatened Ecological Communities and Priority Ecological Communities which identifies a final construction corridor based on avoidance and minimisation of impacts, see condition 9-1. | Relevant information provided.   | The Water Corporation submitted this information in letter dated 25 June 2009 (Aqua Doc 2270032).<br><br>This condition was deemed complete by DEC in letter dated 03/07/2009 (reference 3 July 2009 Anthony Sheehan).<br><br>See: <a href="#">Supporting Evidence\792 M9\M9.1</a>   | DEC     | N/A    | Pre-construction  | At least 3-months prior to construction.   | CLD    |
| 792:M9.3 | <b>Terrestrial Flora and Vegetation</b> | In implementing the proposal, the proponent shall minimise the loss of identified declared rare and priority flora, and priority and threatened ecological communities and may only take Declared Rare Flora within the identified pipeline construction corridor which shall not exceed 20 metres in width.   | Before, during and after construction digital images of flagged DRF, PF, PEC and TEC communities and pipeline width submitted.                             | Plant Site – There are no DRF, Priority flora, Threatened Ecological Communities or Priority Ecological Communities identified on the plant site footprint (see 360 report “SSDP 2007 Terrestrial Flora and Fauna Survey”).<br><br>Boonilup Rd – No DRF was located within the cleared Water Transfer Pipeline corridor. The coordinates from DEC correspondence were used to locate the boundary of the corridor and a botanist was also present to identify priority species. DEC then approved the flagging prior to clearing. Photos of the clearing operations show yellow flagging tape at the edge of the corridor.<br><br>See: <a href="#">Supporting Evidence\792 M9\M9.3</a> | DEC     | N/A    | Overall           | Ongoing.   | C      |
| 792:M9.4 | <b>Terrestrial Flora and Vegetation</b> | The proponent shall monitor the number of declared rare and priority flora, and the area of priority and threatened ecological communities referred to in conditions 9-1 and 9-2 to demonstrate that the number lost has been minimised. This monitoring is to be carried out to the satisfaction of the CEO of the Department of Environment and Conservation.  | Monitoring plan submitted and implemented.   | Boonilup Rd – No DRF was located within the cleared Water Transfer Pipeline corridor. The coordinates from DEC correspondence were used to locate the boundary of the corridor and a botanist was also present to identify priority species. DEC then approved the flagging prior to clearing. Photos of the clearing operations show yellow flagging tape at the edge of the corridor.<br><br>See: <a href="#">Supporting Evidence\792 M9\M9.3</a>  | DEC     | N/A    | Construction      | Ongoing during construction.   | C      |
| 792:M9.5 | <b>Terrestrial Flora and Vegetation</b> | Within two months following the completion of construction, the proponent shall submit the results of monitoring required by condition 9-4 and a report demonstrating that the number of declared rare and priority flora, and the area of priority and threatened ecological communities lost has been minimised, to the CEO of the Department of Environment and Conservation.                                   | Monitoring results/report submitted.   | Post construction condition.   | DEC     | N/A    | Post-construction | Within 2-months following the completion of construction.                            | NR     |
| 792:M9.6 | <b>Terrestrial Flora and Vegetation</b> | Within two months following completion of construction of the Water Transfer Pipeline, the proponent shall commence rehabilitation of the pipeline corridor to habitat similar to that which occurred prior to clearing in accordance with the criteria included in condition 9-7.   | Digital images showing or statement from DEC officer verifying, commencement of rehabilitation works consistent with criteria in Condition M9.7 submitted. | Post construction condition.<br><br>A revegetation management plan is in preparation for the Water Transfer Pipeline.  | DEC     | N/A    | Post-construction | Within 2-months following completion of construction of the water transfer pipeline. | NR     |

**Table 2: OEPA Audit Table**

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| Number    | Subject                                 | Action  | How  | Evidence  | Satisfy     | Advice | Phase             | When   | Status |
|-----------|---|---|--|---|-------------|--------|-------------------|--|--------|
| 792:M9.7  | <b>Terrestrial Flora and Vegetation</b> | <p>Within two months following completion of construction of the desalination plant, the proponent shall commence rehabilitation of the site. In accordance with the following:</p> <ol style="list-style-type: none"> <li>1. Re-establishment of vegetation in the rehabilitation area to be comparable with that of the pre-clearing vegetation such that the following criteria are met within three years:               <ol style="list-style-type: none"> <li>(1) Species diversity is not less than 70 percent of the known original species diversity;</li> <li>(2) Declared rare flora and priority flora are re-established with not less than 50 percent of the pre-disturbance baseline density after three years and 65 percent success after five years; and</li> <li>(3) Weed coverage less than 10 percent.</li> </ol> </li> <li>2. A schedule of rate of rehabilitation acceptable to the CEO of the Department of Environment and Conservation</li> </ol> | Digital images showing or statement from DEC officer verifying, commencement of rehabilitation works consistent with criteria in Condition M9.7 submitted. | Post construction condition.  | DEC         | N/A    | Post-construction | Within 2-months following completion of construction of the desalination plant.                                    | NR     |
| 792:M9.8  | <b>Terrestrial Flora and Vegetation</b> | In liaison with the Department of Environment and Conservation, the proponent shall monitor progressively the performance of rehabilitation against the criteria in condition 9-7 based on annual monitoring in Spring.   | Implement annual monitoring program.   | Post construction condition .   | Min for Env | DEC    | Post-construction | Annually, during Spring, following commencement of rehabilitation.   | NR     |
| 792:M9.9  | <b>Terrestrial Flora and Vegetation</b> | <p>The proponent shall submit annually a report of the rehabilitation performance monitoring required by condition 9-8 to the CEO of the Department of Environment and Conservation and shall address in the report the following:</p> <ol style="list-style-type: none"> <li>1. Progress towards meeting the criteria required by condition 9-7 and milestone criteria; and</li> <li>2. Contingency management measures in the event that criteria are unlikely to be met.</li> </ol>  | Report of the rehabilitation performance monitoring (ref Conditions M9.7 and 9.8) submitted.   | Post construction condition.  | DEC         | N/A    | Post-construction | Annually, following commencement of rehabilitation.  | NR     |
| 792:M10.1 | <b>Wetlands</b>                         | The proponent shall only clear native vegetation on Part Lot 8 Taranto Road, Binningup and the Boonilup Road section of the Water Transfer Pipeline subject to the satisfactory demonstration that an 'Offset Implementation Strategy' has been prepared and is able to be implemented in accordance with condition 10-2.   | Offset implementation strategy (ref Condition 10.2) submitted.   | DEC acknowledgement letter (CEO710/09 DEC11361) dated 8 July 2009 deemed condition compliant.<br>See: <a href="#">Supporting Evidence\792 M10\M10.1</a> | Min for Env | N/A    | Pre-construction  | Prior to clearing native vegetation on Part Lot 8, Taranto Road, Binningup and the Boonilup Road pipeline section. | CLD    |
| 792:M10.2 | <b>Wetlands</b>                         | The 'Offset Implementation Strategy' referred to in condition 10-1 shall detail an offset which will provide an adequate restoration of an agreed wetland in accordance with Environmental Protection Authority <i>Guidance Statement No. 19: Environmental Offsets – Biodiversity</i> (September 2008) and to the satisfaction of the CEO of the Department of Environment and Conservation.   | Offset implementation strategy submitted.  | DEC acknowledgement letter (CEO710/09 DEC11361) dated 8 July 2009 deemed condition compliant.<br>See: <a href="#">Supporting Evidence\792 M10\M10.2</a> | DEC         | N/A    | Pre-construction  | Prior to clearing native vegetation on Part Lot 8, Taranto Road, Binningup and the Boonilup Road pipeline section. | CLD    |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number    | Subject   | Action  | How   | Evidence   | Satisfy     | Advice | Phase            | When   | Status |
|-----------|---|---|---|--|-------------|--------|------------------|--|--------|
| 792:M10.3 | <b>Wetlands</b>   | During construction of the Water Transfer Pipeline, the proponent shall not dewater along the length of the pipeline within the area of Boonilup Road section of the Water Transfer Pipeline (see Figure 4, Schedule 1) unless otherwise authorised by the CEO of the Department of Environment and Conservation.   | Authorisation to dewater requested and obtained.  | The pipeline construction along relevant sections of Boonilup Road was changed to avoid the need to dewater; no dewatering was required.   | DEC         | N/A    | Construction     | During construction of Boonilup Road pipeline section. | C      |
| 792:M11.1 | <b>Greenhouse Gas Emissions</b>   | The proponent shall ensure that all electricity used by the plant is purchased from renewable sources, and the associated Renewable Energy Certificates are surrendered.  | Annual compliance assessment reports (ref Condition M4.6) identifying plant energy sources submitted. | DEC acknowledgements of receipt of reports   | Min for Env | N/A    | Overall          | Operations / Ongoing.                                  | NR     |
| 792:M11.2 | <b>Greenhouse Gas Emissions</b>   | In the event that condition 11-1 cannot be met, the proponent shall offset the quantity of greenhouse gas emissions produced by the amount of electricity which is sourced from non-renewable sources by purchasing carbon offset credits from accredited third parties, or otherwise, in a manner approved by the CEO of the Department of Environment and Conservation. | Annual compliance assessment reports (ref Condition M4.6) identifying plant energy offsets submitted. | DEC acknowledgements of receipt of reports   | DEC         | N/A    | Overall          | If Condition M11.1 is not met.                         | NR     |
| 792:M12.1 | <b>Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)</b> | Prior to commencement of construction, the proponent shall conduct surveys of the proposal area to collect baseline information on the following:<br>1. Soil profiles;<br>2. Groundwater levels;<br>3. Surface water flows;<br>4. Vegetation complexes; and<br>5. Landscape and landforms.  | Surveys conducted and relevant information provided.  | DEC acknowledgement letter (DEC11361) dated 6 July 2009 deemed condition complete.<br><br>See: <a href="#">Supporting Evidence\792 M12</a> | Min for Env | N/A    | Pre-construction | Prior to construction.                                 | CLD    |
| 792:M12.2 | <b>Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)</b> | In the event of closure of the desalination plant, the proponent may leave the pipeline underground, wherever it is below ground level.   | Advise DEC accordingly.   | DEC acknowledgement of receipt of advice.  | Min for Env | N/A    | De-commissioning | Closure of desalination plant.                         | NR     |

**Table 2: OEPA Audit Table**

*NOTE: The supporting evidence detailed in this table are provided on the attached CD ROM.*

| Number    | Subject   | Action   | How  | Evidence                                   | Satisfy | Advice | Phase            | When   | Status |
|-----------|---|--|--|--|---------|--------|------------------|--|--------|
| 792:M12.3 | <b>Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)</b> | In the event of closure of the desalination plant, the proponent shall commence rehabilitation of the site in accordance with the following:<br>1. Re-establishment of vegetation in the rehabilitation area to be comparable with that of the pre-clearing vegetation such that the following criteria are met within three years following the cessation of the use of the site for the desalination plant:<br>(1) Species diversity is not less than 70 percent of the known original species diversity;<br>(2) Declared Rare Flora and Priority flora are re-established with not less than 50 percent of the pre-disturbance baseline density after three years and 65 percent success after five years; and<br>(3) Weed coverage less than 10 percent.<br>2. A schedule of rate of rehabilitation acceptable to the CEO of the Department of Environment and Conservation. | Undertake site rehabilitation according to approved plan; report accordingly.                  | DEC acknowledgments of receipt of reports. | DEC     | N/A    | De-commissioning | In the event of closure of the desalination plant (following).   | NR     |
| 792:M12.4 | <b>Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)</b> | In liaison with the Department of Environment and Conservation, the proponent shall monitor progressively the performance of rehabilitation against the criteria in condition 12-3 based on annual monitoring in Spring.   | Implement annual monitoring program.   | Correspondence with DEC.                   | DEC     | N/A    | De-commissioning | In the event of closure of the desalination plant (annually, during Spring, following commencement of rehabilitation). | NR     |
| 792:M12.5 | <b>Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)</b> | The proponent shall submit annually a report of the rehabilitation performance monitoring required by condition 12-4 to the CEO of the Department of Environment and Conservation and shall address in the report the following:<br>1. Progress towards meeting the criteria required by condition 12-3 and milestone criteria; and<br>2. Contingency management measures, and their implementation, in the event that criteria are unlikely to be met.  | Report of the rehabilitation performance monitoring (ref Conditions M12.3 and 12.4) submitted. | DEC acknowledgement of receipt of report.  | DEC     | N/A    | De-commissioning | In the event of closure of the desalination plant (annually, following commencement of rehabilitation).                | NR     |
| 792:N1    | <b>Procedures</b>   | Where a condition states "on advice of the Environmental Protection Authority", the Environmental Protection Authority will provide that advice to the Department of Environment and Conservation for the preparation of written notice to the proponent.  | Not applicable   | Not applicable                             | N/A     | N/A    | N/A              | Not applicable   | NA     |
| 792:N2    | <b>Procedures</b>   | The Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment and Conservation.  | Not applicable   | Not applicable                             | N/A     | N/A    | N/A              | Not applicable   | NA     |

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| Number | Subject    | Action  | How            | Evidence  | Satisfy | Advice | Phase | When           | Status |
|--------|------------|---|----------------|---|---------|--------|-------|----------------|--------|
| 792:M3 | Procedures | The Minister for Environment will determine any dispute between the proponent and the Environmental Protection Authority or the Department of Environment and Conservation over the fulfilment of the requirements of the conditions. | Not applicable | Not applicable  | N/A     | N/A    | N/A   | Not applicable | NA     |
| 792:N4 | Procedures | Where a condition lists advisory bodies, it is expected that the proponent will obtain the advice of those listed as part of its compliance reporting to the Department of Environment and Conservation.                              | Not applicable | Not applicable  | N/A     | N/A    | N/A   | Not applicable | NA     |
| 792:N5 | Procedures | The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the <i>Environmental Protection Act 1986</i> .   | Not applicable | The SSDP plant was granted Works Approval W4519/2009/1 on 12 June 2009. This was amended 4 February 2010. | N/A     | N/A    | N/A   | Not applicable | C      |



**Table 4: Summary of environmental monitoring performed during the reporting period**

*NOTE: The monitoring reports and data detailed in this table are provided on the attached CD ROM.*

|   |   |   |
|---|---|---|
| <p>Water Quality and Marine Biota</p>   | <p>Benthic Community Composition<br/><br/>Water characteristics</p>                         | <p>See <a href="#">Monitoring Data\1 Water Quality and Marine Biota</a>:</p> <ul style="list-style-type: none"> <li>- Interim Vertical Water Profile Report Results from May-July 2009, August – October 2009, November 2009 – January 2010; February – April 2010 (WorleyParsons)</li> <li>- Southern Seawater Desalination Plant (SSDP) baseline habitat health monitoring Data Report May 2009 (Oceanic, 29/5/09)</li> </ul>   |
| <p>Marine Mammals</p>                   | <p>Visual marine mammal monitoring (blasting), prestart and shut down procedures</p>        | <p>See <a href="#">Monitoring Data\2 Marine Mammals</a>:</p> <ul style="list-style-type: none"> <li>- Marine Blasting Exclusion Zone (Marine Mammals) Report [05-EN-REP-0005] (SSWA, 2 June 2010)</li> </ul>  |
| <p>Terrestrial Fauna</p>                | <p>Terrestrial Fauna Sighting and Removal Monitoring</p>                                    | <p>See <a href="#">Monitoring Data\3 Terrestrial Fauna</a>:</p> <ul style="list-style-type: none"> <li>- “SSDP Fauna Removal Log” for period 14 April 2009 to 13 April 2010.</li> <li>- <i>Fauna Spotting for Clearing Report</i> (360 Environmental, 05/08/09).</li> <li>- <i>First Terrestrial Fauna Management Report</i> [00-EN-REP-0005] covering the period 14 July 2009 to 14 January 2010.</li> </ul>                     |
| <p>Terrestrial Flora and Vegetation</p> | <p>Monitoring of clearing operations and the number of declared rare and priority flora</p> | <p>See <a href="#">Monitoring Data\4 Terrestrial Flora and Vegetation</a>:</p> <ul style="list-style-type: none"> <li>- SSDP Plant Site <i>Clearing Extent 24 July 2009</i></li> <li>- SSDP Plant Site <i>Clearing Extent 29 July 2009</i></li> <li>- SSDP Plant Site <i>Final Surveyed Area Cleared</i></li> <li>- SSDP Plant Site <i>Table of Photos</i> and photographs of clearing operations undertaken July 2009</li> </ul> |

## **Attachments 1:**

### **CD-ROM: SSDP Performance and Compliance Report Supporting Evidence**