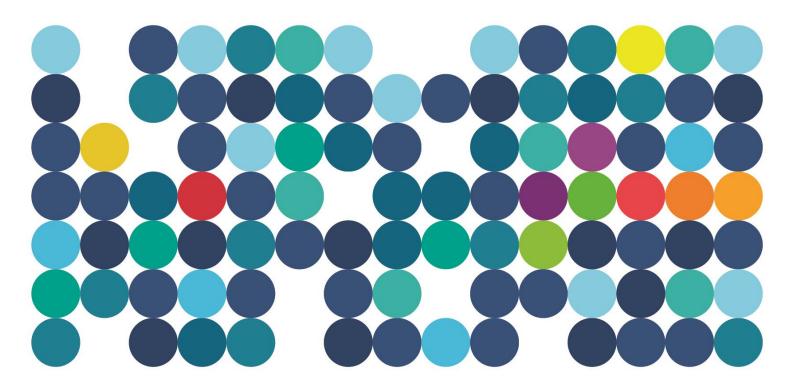
Performance Compliance Report 2019-2020

Ministerial Statement 665

Use of the Cape Peron Outlet Pipeline to Dispose of Industrial Wastewater to the Sepia Depression, Kwinana









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1. Introduction

The use of the Sepia Depression Ocean Outlet Landline (SDOOL) to dispose of up to 30 ML/d of industrial wastewater, in addition to treated wastewater from Woodman Point and Point Peron wastewater treatment plants and water from the Jervoise Bay Groundwater Recovery Scheme, was approved by the Minister for the Environment on 28 October 2004 (Assessment 1471, Ministerial Statement 665).

Approved sources of wastewater currently disposed to the SDOOL are as follows:

- the Kwinana Wastewater Reclamation Plant (KWRP);
- BP Refinery (Kwinana);
- CSBP Limited;
- Edison Mission Energy, and
- Perth Energy

This report covers the reporting period from 1 July 2019 to 30 June 2020 (2019-20). It outlines the compliance status with the conditions of MS 665 and the Water Corporation's Environmental Management Commitments as reported in the Statement and incorporated into the monitoring framework detailed in the SDOOL Monitoring and Management Plan (M&MP).

Condition 5-1 of MS 665 describes the requirements for compliance reporting:

5-1 the proponent shall prepare an audit program and submit compliance reports to the Department of Environment which address:

- 1. the status of implementation of the proposal as defined in schedule 1 of this statement;
- 2. evidence of compliance with the conditions and commitments; and
- 3. the performance of the environmental management plans and programs.

This Performance and Compliance Report (PCR) fulfils the requirements of MS 665 condition 5-1.





2. Current Status against Schedule 1 Proposal Description

All participants with the exception of the Jervoise Bay Groundwater Recovery Scheme continued to discharge into the SDOOL. The Jervoise Bay Groundwater Recovery Scheme bores ceased discharging to the SDOOL in October 2010.

Table 1 summarises the volumes discharged into the SDOOL during the 2019-20 reporting period. The Kwinana Water Reclamation Plant (KWRP) removed and processed 19.25 ML/day from SDOOL for use by industry. Of this, 13.33 ML/day was used by industries in the Kwinana area and the remaining 5.93 ML/day redirected back into the SDOOL as reject flow. Industry participants discharged approximately 4.74 ML/day into the SDOOL. Table 1 shows the breakdown of the volumes discharged to the SDOOL.

Table 1 - Volume of treated wastewater discharged via SDOOL

Site	Volume Discharged via SDOOL (ML/day)
Woodman Point WWTP	147.67
Point Peron WWTP	17.42
KWRP Feedwater	-19.25
KWRP Reject Water	5.93
Kwinana Industries Discharge	4.74
Kwinana WWTP	2.48
East Rockingham WWTP	3.56
TOTAL	162.55

There were no changes to MS 665 or the SDOOL (M&MP) during the reporting period.

The wastewater treatment plant upgrade project (WP180) was largely completed in 2019-20, with a noticeable improvement in effluent quality contributing to the compliance of treated wastewater with Schedule 1 Key Characteristics.





2.1 - Compliance with Schedule 1

Table 2 provides an overview of compliance with the proposal's key characteristic over 2019-20 as described in Schedule 1 of MS 665.

Table 2 – Compliance with Schedule 1 Key Characteristics Table

Parameter	Current plus initial KWRP (2013)	Possible expansion (2030)	2019-20 Compliance***
Industry reclaimed water reuse	17 ML/day	Up to 27 ML/d	Compliant 13.33 ML/day
Industry wastewater discharge to SDOOL Typical Maximum	6 ML/day 13 ML/day	Up to 30 ML/d	Compliant KWRP discharge: 5.93 ML/d Industry discharge: 4.71 ML/d Total wastewater discharge to SDOOL: 10.64 ML/d
Combined Treated wastewater quantity and quality Average volume Typical* Maximum**	145 ML/day 160 ML/day	Up to 200 ML/d Up to 208 ML/d	Compliant 162.55 ML/day
Suspended Solids	39-90 mg/L	35** mg/L	Compliant Refer Table 3
Biochemical Oxygen Demand (BOD ₅)	24-40 mg/L	16** mg/L	Compliant Refer Table 3
Total Phosphorus (TP)	11-22 mg/L	11*-12** mg/L	Compliant Refer Table 3
Total Nitrogen (TN)	1,778 tonnes per annum	1,778 tonnes per annum	Compliant Refer Table 3
Dilution	Average dilution of the SDOO be at least 1:300 with the dilu 99% of the time within 100 Depression Ocean Outle	ition being above 1:200 metres of the Sepia	Compliant Modelling predicted dilution at 22m of 1:583 indicating dilution at 100m greater than 1:300.
Annual Toxicant Loads from Industrial Participants	In order to manage the capped toxicant load, at a maximum permissible level of 208 ML/day, the Water Corporation is responsible to carefully consider any proposed increase in toxicant loads to ensure ecological and social values of the marine environment are protected.	New proposals for discharges to the SDOOL will be referred to the EPA	Compliant No new proposals for discharge to the SDOOL in 2019-20





Parameter	Current plus initial KWRP (2013)	Possible expansion (2030)	2019-20 Compliance***
Toxicant Concentrations	As per PLOOM reporting, 1992 to 2002	Projected loads and flows will result in toxicant concentrations meeting the ANZECC & ARMCANZ 80% species protection guideline values for bioaccumulating toxicants at the diffuser.	Compliant Refer Table 7
Toxicant Concentrations	As per PLOOM reporting, 1992 to 2002	Projected loads and flows will result in toxicant concentrations meeting the ANZECC & ARMCANZ 99% species protection guideline values (with the exception of cobalt, where the 95% guideline will apply) beyond 100 metres from the Sepia Depression Ocean Outlet diffuser.	Compliant Refer Table 7
Nutrient Loads	Nutrient loads from the SDOO will be no greater than 199 subsequent monitoring show a impact at that level, it will be loads	Compliant Refer Table 3	
Sediment	ANZECC & ARMCANZ Interim Sediment Quality Guideline-low levels to be used as trigger for management action and investigation for bio- accumulating substances within the Zone of Low Ecological Protection, and generally outside the Zone of Low Ecological Protection.		Compliant Refer Table 7
Protection of Social Values – Contact Recreation	The area not meeting the guidelines for contact recreation due to domestic wastewater discharge will not increase because of the addition of industrial effluent.		Compliant Refer Section 2.2.2.
Protection of Social Values – Aesthetic Value	Visual amenity will not dete addition of indust	Compliant Refer Table 7	
Protection of Social Values – Seafood for Human Consumption	The industrial wastewater dis the area not meeting the g harvesting due to domestic	uidelines for seafood	Compliant Refer Table 7

^{*}Typical means the expected average daily operational target



^{**}Maximum means the expected infrequent (<10% of the time) operational targets based on the monthly average contributions from each industry participant.

^{***}Comparison with figures from s45C approved change (20 Feb 2015) – central column of this table - 'Possible Expansion (2030)'



2.2 Schedule 1 Discussion on compliance status

2.2.1 Treated Wastewater Quality

Combined treated wastewater quality limits were assessed on a rolling 12 month average basis as per the SDOOL M&MP (with the exception of TN, which is a total loading criterion). As Table 3 demonstrates, all 'current' treated wastewater criteria were met in 2019-20.

Table 3 – TSS, BOD, TP and TN Results 2019-20

Toxicant	TSS	BOD	TP	TN (Loading)*		
Unit	mg/L	mg/L	mg/L	tonnes/month	tonnes/yr	
Criteria	39-90	24-40	11-22	-	1,778	
Jul-19	32.9	29.7	6.0	158.1		
Aug-19	32.9	29.5	5.6	117.1		
Sep-19	33.5	28.1	5.4	119.3		
Oct-19	32.3	28.2	5.5	108.2		
Nov-19	21.4	26.3	5.0	88.4		
Dec-19	21.4	26.5	4.9	81.5		
Jan-20	20.3	25.4	4.8	87.3		
Feb-20	20.0	25.5	4.9	82.4		
Mar-20	19.5	26.0	5.0	98.1		
Apr-20	19.6	25.8	5.3	92.6		
May-20	19.3	26.1	5.6	107.7		
Jun-20	19.4	26.2	5.4	136.2		
Total					1,277	

^{*}Annual TN loading is a sum of monthly TN loadings for the reporting year.

2.2.2 Primary Contact Recreation

The Environmental Quality Guideline (EQG) and the Environmental Quality Standard (EQS) criteria in relation to the 'Maintenance of Primary Contact Recreation' (EQO3 – refer to Section 4 below) were exceeded in 2019-20 (Table 4). However, this exceedance relates to faecal pathogens (Enterococci spp.), and not due to the addition of industrial effluent. EQO4 – 'Maintenance of Secondary Contact Recreation' was met (Table 7).

Table 4 – Comparison of faecal pathogen measurement at post upgrade boundary to EQG and EQS

Quality Indicator	Envi	Result	
Faecal	Environmental Quality Guideline	95th percentile value of Enterococci spp. taken over bathing season not to exceed 200 MPN/100mL outside post-upgrade boundary.	1100 MPN/100 mL
pathogens	Environmental Quality Standard	95th percentile value of Enterococci spp. taken over bathing season not to exceed 500 MPN/100mL outside post-upgrade boundary.	TTOO WIFTY TOO TILE







Water Corporation notified DWER via email on 17th September 2020 of the exceedance of the faecal pathogens EQG and EQS exceedance in 2019-20.

Water Corporation prepared an updated M&MP that, amongst other changes, removed the primary contact criteria at the boundary, following advice on the matter by the Department of Health. The amended M&MP was submitted to DWER on 18 July 2019 and is still under review between Water Corporation and DWER. Water Corporation has committed to further modelling of the ocean outfall to better understand the exceedance boundary for primary contact at current bacterial loads, and if the primary contact criteria could be met at the current boundary if Point Peron effluent could be improved or diverted.

2.3 Internal/External Audits

No external audits of MS 665 were undertaken during the reporting period. The development of this report and scrutiny through internal review encompasses the requirements of an internal audit.





3. Performance of Environmental Management Plans and Programs

The SDOOL M&MP remains the only plan or program. Marine water quality monitoring for the reporting period was carried out by a qualified consultant (BMT). In accordance with the M&MP, the following environmental quality objectives (EQOs) were assessed:

- Maintenance of Ecosystem Integrity (EQO 1);
- Maintenance of Aquatic Life for Human Consumption (EQO 2);
- Maintenance of Primary and Secondary Contact Recreation (EQO 3 & 4); and
- Maintenance of Aesthetic Values (EQO 5).

The extent to which the EQOs were met was assessed against Environmental Quality Guidelines (EQG) and Environmental Quality Standards (EQS).

The Compliance Report Card for 2019-20 is shown in Table 7 below, and demonstrates the level of compliance against the environmental quality criteria (EQC) as detailed in the SDOOL M&MP.

The Compliance Report Card uses colour coding to represent the extent to which the EQC were met (Table 6).

Detailed results of SDOOL ocean outlet monitoring for 2019-20 can be found in Appendix A.

Table 6 - Compliance Report Card Legend

Management response	Legend
Monitor: EQG met: continue monitoring	
Investigative: EQG not met: assess against EQS. EQS met	
Action: EQS not met: management response required	





Table 7 – 2019-20 Marine Monitoring Compliance Report Card

Indicator	Environmental Quality Criteria (EQC)	Assessment
EQO 1 – MAINTENANCE	OF ECOSYSTEM INTEGRITY	
Toxicants in treated wastewater	EQG: Concentration of contaminants will not exceed the ANZECC & ARMCANZ (2000) 80% species protection guideline trigger levels for bio-accumulating toxicants at the diffuser	
	EQG: The ANZECC/ARMCANZ (2000) 99% species protection guideline trigger levels for non bio-accumulating are met at the edge of the low ecological protection area (LEPA).	
	EQG: The total toxicity of the mixture (TTM) for the additive effect of dissolved ammonia, copper and zinc (as per ANZECC/ARMCANZ (2000) guidelines) is less than 1.0.	
Whole of Effluent Toxicity Testing	EQG: The EQG will be exceeded if after the 1 hr sea urchin test: $\frac{TDA}{DRNOEC} \le 1.0$	
Receiving waters physio/chemical measures	EQG: Median chlorophyll-a concentration during non-river-flow period not to exceed 80 th percentile of reference site data	
	EQG: Median light attenuation (LAC) during non-river-flow period not to exceed 80 th percentile of reference site data	
	EQG: Median dissolved oxygen in bottom waters (0-0.5 m above the sediment surface) greater than 90% saturation at any site for a defined period of not more than six weeks	
	EQG: Median salinity (0.5 m below the water surface) at an individual site over any period not to deviate beyond the 20 th and 80 th percentile of natural salinity range over the same period.	
Receiving water biological measures	EQG: Median phytoplankton biomass measured as chlorophyll-a not to exceed 3-times median chlorophyll-a concentration of reference sites, on any occasion during non river-flow period.	
	EQG: Phytoplankton biomass measured as chlorophyll-a at any site does not exceed 3 times median chlorophyll-a concentration of reference sites, on 25% or more occasions during the non river-flow period	
EQO 2 – MAINTENANCE	OF AQUATIC LIFE FOR HUMAN CONSUMPTION	
Thermotolerant Coliforms	EQG: Median TTC counts at sites at the boundary of the Shellfish Harvesting Exclusion Zone (SHEZ) are not to exceed 14 CFU 100 mL, with no more than 10% of the samples exceeding 21 CFU 100 mL as measured using the membrane filtration method	
Algal biotoxins	EQG: Concentrations of potentially toxic algae at sites at the boundary of the SHEZ are not to exceed the WASQAP trigger concentrations	
EQO 3 – MAINTENANCE	OF PRIMARY CONTACT RECREATION	





Indicator	Environmental Quality Criteria (EQC)	Assessment			
Faecal pathogens*	EQG: The 95 th percentile value of <i>Enterococci</i> taken over the bathing season not to exceed 200 MPN/100 mL, outside the post upgrade boundary				
*Refer section 3.2.2.	EQS: The 95 th percentile value of <i>Enterococci</i> taken over the bathing season not to exceed 500 MPN/100 mL, outside the post upgrade boundary				
Algal biotoxins	gal biotoxins EQG: Median total phytoplankton cell count for the area of concern should not exceed 15,000 cells/mL				
EQO 4 – MAINTENANCE	OF SECONDARY CONTACT RECREATION				
Faecal pathogens	EQG: The 95 th percentile value of <i>Enterococci</i> taken over the bathing season not to exceed 2000 MPN/100 mL, outside the post upgrade boundary				
EQO 5 – MAINTENANCE	OF AESTHETIC VALUES				
Nuisance organisms	EQG: Macrophytes, phytoplankton scums, filamentous algal mats, blue-green algae and sewage fungus should not be present in excessive amounts				
Faunal deaths	EQG: There should be no reported incidents of large-scale deaths of marine organisms relating from unnatural causes				
Water Clarity	EQG: The natural visual clarity of the water should not be reduced by more than 20%				
Colour	EQG: The natural hue of the water should not be changed by more than ten points on the Munsell scale.				
Surface films	EQG: Oil and petrochemicals should not be noticeable as a visible film on the water or detectable by odour				
	EQS: There should be no overall decrease in the aesthetic water quality values of Cockburn Sound using direct measures of the community's perception of aesthetic value.				
Surface debris	EQG: Water surfaces should be free of floating debris, dust and other objectionable matter, including substances that cause foaming				
	EQS: There should be no overall decrease in the aesthetic water quality values of Cockburn Sound using direct measures of the community's perception of aesthetic value.				
Odour	EQG: There should be no objectionable odours.				
Fish tainting substances	EQG: Concentrations of contaminants will not exceed the aesthetics guidelines for fish tainting substances at the Shellfish Harvesting Safety Zone boundary.				







4. Stakeholder Consultation & Complaints (Commitment 13)

4.1 Stakeholder Liaison Group (SLG)

SDOOL Annual Performance Summary Reports are submitted annually to the SLG. These reports provide a summary of MS 665 compliance; results of the ocean monitoring program; details of the non-conformances and proposed management responses; any changes to MS 665 or the SDOOL M∓ complaints received; and any other emerging issues. A link to the SDOOL Annual Report is also provided.

The 2018-19 SDOOL Annual Performance Summary Report was submitted to the SLG via email on the 20th December 2019.

4.2 Complaints

In October 2019 a query was issued to Water Corporation from a member of the public regarding access to annual reports on the Water Corporation website, and concern around the primary contact criteria exceedance. A response was provided via email and there was no further correspondence.

5. Compliance with Conditions and Commitments

Each condition and environmental management commitment specified in MS 665 was assessed for compliance in 2019-20. The results of this assessment are presented in the Audit Table (Table 8) below.

6. Reporting

A copy of the SDOOL annual report may be found at:

https://www.watercorporation.com.au/Our-water/Wastewater/Ocean-outfall/Perth-monitoring-program



Table 8 – Audit Table (Provided by OEPA)





Government of Western Australia

Office of the Environmental Protection Authority

AUDIT TABLE

Statement Compliance Section

PROJECT: Use of Cape Peron Outlet Pipeline to Dispose of Industrial Wastewater to the Sepia Depression, Kwinana

Note:

- Phases that apply in this table = Pre-Construction, 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
- Acronym list: CEO = Chief Executive Officer of OEPA; DEC = Department of Environmental Protection Authority, DoH = Department of Health; DoW = Department of Water, Minister for Env = Minister for the Environmental Protection Authority.
- Compliance Status: C = Compliant, CLD = Completed, NA = Not Audited, NC = Non compliant, NR = Not Required at this stage. Please note the terms VR = Verification Required and IP = In Progress are only for OEPA use.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
665:M1.1	Implementation	Implement the proposal as documented in Schedule 1 of Statement 665, subject to the conditions of this statement		MS 665 2019-20 Performance Compliance Report (this document)	Overall	Throughout the life of the project	С	
665:M2.1	Proponent Commitments	Implement the environmental management commitments documented in Schedule 2 of Statement 665		MS 665 2019-20 Performance Compliance Report (this document)	Overall		С	Refer to individual comments listed below (665:P1-P13.2)
665:M3.1	Nominated Proponent	The proponent nominated by the Minister for the Environment, under S38(6) or (7) of the EP Act is responsible for the implementation of the proposal until the Minister has revoked this nomination and nominated another person in respect of the proposal under S38(7) of the EP Act			Overall		С	Proponent remains Water Corporation
665:M3.2	Change in Proponent	Any request for a change in proponentship shall be accompanied by a copy of the Minister's statement endorsed with an undertaking by the proposed replacement proponent to carry out the proposal in accordance with the conditions and procedures set out in Statement 665. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal shall also be provided.		Letter applying for a transfer of proponent and a copy of the Statement endorsed by the proposed replacement proponent; 2. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal	Overall	Before transfer of ownership of the proposal	С	Proponent remains Water Corporation
665:M3.3	Proponent	Notify the DoE of any change of proponent contact name and address		Notification of change of proponent contact name and address	Overall	Within 60 days of any change of address	С	No change in proponent name or address
665:M4.1	Commencement	If the proposal has not been substantially commenced within five years of the date of this statement, the approval to implement the proposal as granted in Statement 665 shall lapse and be void	The Minister will determine any question as to whether the proposal has been substantially commenced	Statement issued October 2004, CSBP discharging to SDOOL October 2005, BP commenced discharging in Sept 2009	Overall	By 28 October 2009	CLD	Proposal was commenced within five years of the date of MS 665.







Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
665:M4.2	Commencement	Make an application to the Minister for the Environment for any extension of approval for the substantial commencement of the proposal beyond five years from the date of Statement 665	An approval may be granted for an extension of the approval period if 1. The environmental factors of the proposal have not changed significantly; 2. new, significant environmental issues have not arisen; and 3. all relevant government authorities have been consulted. Note: The Minister for the Environment may consider the grant of an extension of the time limit of approval not exceeding five years for the substantial commencement of the proposal.	Letter regarding extension required, stating that the proposal is to be implemented as approved.	Overall	At least six months prior to the expiration date of the five year period (by 28 April 2009)	CLD	Proposal was commenced within five years of the date of MS 665.
665:M5.1	Compliance Auditing	Prepare an audit programme and submit compliance reports (CR's) to the DoE	Compliance reports to address 1. the status of implementation of the proposal as defined in Schedule 1 of Statement 665; 2. evidence of compliance with the conditions and commitments; and 3. the performance of the environmental management plans and programmes. Note - Under sections 48(1) and 47(2) of the Environmental Protection Act 1986, the Chief Executive Officer of the Department of Environment is empowered to monitor the compliance of the proponent with the statement and should directly receive the compliance documentation, including environmental management plans, related to the conditions, procedures and commitments contained in this statement.	1. Initial Compliance report to be submitted at Pre-operation addressing all Pre-operation phase and any relevant "Overall' phase requirements. 2. Annual compliance reporting for the first five years commencing one year after the date that the Statement was issued, then reporting as required by the DoE. MS 665 Performance Compliance Reports (PCR)	Overall	1. Initial Compliance report Pre-operation addressing all "Pre-operation' and relevant "Overall' phase elements. 2. Annual compliance reporting for the first five years, then reporting as required by the DoE	С	2018-19 MS 665 PCR submitted to OEPA on 27 November 2019 (WC Ref. 82443687).
665:M5.2	Performance Review	Submit a Performance Review	Addressing - (1) the major environmental issues associated with the project; the targets for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those targets; (2) the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable; (3) significant improvements gained in environmental management, including the use of external peer reviews; (4) stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and (5) the proposed environmental targets over the next five years, including improvements in technology and management processes	Performance Review MS 665 Performance Review Reports (PRR)	Operation	Each five years after the start of the operations phase	С	2015 MS 665 PRR was submitted to the OEPA on 25 November 2015 (WC Ref. 48910838). Next PRR due for submission in Dec 2020
665:M5.3	Report prepared by an auditor	The proponent may submit a report prepared by an auditor (approved by the DoE under the' Compliance Auditor Accreditation Scheme') on each condition/commitment of this statement which requires the preparation of a management plan, programme, strategy or system stating that the requirements of each condition/commitment have been fulfilled within the timeframe stated within each condition/commitment	N/A	N/A	Overall	N/A	NA	Auditor report not required during 2019-20 reporting period.







Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
665:M6.1	Monitoring and management of the Outlet	Prepare a Preliminary Sepia Depression Ocean Outlet Monitoring and Management Plan. See also P3, P4.	Include: 1. the monitoring and evaluation of the environmental effects of discharging treated wastewater into the Sepia Depression; 2. long-term environmental quality objectives and their spatial application consistent with the Environmental Protection Authoritys objectives as described in the publication Perths Coastal Waters, Environmental Values and Objectives, Environmental Protection Authority, February 2000; 3. a programme to achieve long-term environmental quality objectives through short to medium term targets; 4. agreed trigger levels for further investigations (environmental quality guidelines); 5. agreed trigger levels for remedial and/or preventative actions to protect the water quality and the environment of the Sepia Depression (environmental quality standards); and 6. management actions to be taken in the event that environmental quality guidelines or environmental quality standards are not met	Preliminary Sepia Depression Ocean Outlet Monitoring and Management Plan	Pre- operation	Prior to the acceptance of industrial effluent into the Sepia Depression Ocean Outlet Landline	CLD	
665:M6.2	Monitoring and management of the Outlet	Prepare a Sepia Depression Ocean Outlet Monitoring and Management Plan. See also P3, P4.	Address: items 1 to 6 of condition 6-1 and any matters arising during the twelve months of operation, and shall be subject to amendment from time to time	Sepia Depression Ocean Outlet Monitoring and Management Plan	Operation	Within twelve months following the acceptance of industrial effluent into the Sepia Depression Ocean Outlet Landline	CLD	Latest SDOOL M&MP version approved by OEPA on 9 May 2014.
665:M6.3	Monitoring and management of the Outlet	Implement the Sepia Depression Ocean Outlet Monitoring and Management Plan		CR MS 665 2019-20 Performance Compliance Report (this document)	Operation		С	See Table 7 and Appendix A for detailed 2019-20 SDOOL ocean outlet monitoring.
665:M6.4	Sepia Depression Ocean Outlet Monitoring and Management Plan	Make the Sepia Depression Ocean Outlet Monitoring and Management Plan, publicly available	Carry out the following: 1) Request DoE to advertise the availability in the EPA/DoE weekly advertisement in the Monday edition of "The West Australian" newspaper; 2) Provide free copies of the documentation when approved for release to organisations nominated by EPA, such as the DoE library (2 copies), Battye Library (2 copies) and local Government libraries (2 copies each). 3. Post the document on the proponent's website.	CR Water Corporation website	Operation		С	SDOOL M&MP available on the Water Corporation's website- https://www.watercorporation.com.au/Our- water/Wastewater/Ocean-outfall/Point- Peron-monitoring-program
665:M7.1	Ecological Protection Zones and Toxicant Criteria	Determine and report to the Department of Environment whether the concentrations of bio-accumulating toxicants in the effluent at the diffuser exceed the ANZECC & ARMCANZ 80% species protection guideline trigger levels (as published from time to time) for bio-accumulating toxicants in accordance with the Sepia Depression Ocean Outlet Monitoring and Management Plans required by conditions 6-1 and 6-2	Implement the SDOOL Monitoring and Management Plan. Report through the SDOOL Annual Reports and this PCR.	CR MS 665 2019-20 Performance Compliance Report (this document) MS 665 M&MP Annual Report	Operation		С	Concentrations of bio-accumulating toxicants (cadmium and mercury) were below ANZECC/ARMCANZ (2000) 80% species protection guideline "trigger" levels for the reporting period. See Table 7, or Appendix A for detailed 2019-20 SDOOL ocean outlet monitoring.







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Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information	
665:M7.2	Ecological Protection Zones and Toxicant Criteria	In the event that a guideline trigger level for a bio-accumulating toxicant, referred to in condition 7-1, is exceeded, the proponent shall report the matter to the Department of Environment within one working day of determining that this has occurred, and shall initiate an investigation against the environmental quality standards and into the cause of the exceedance in accordance with the framework developed in Revised Environmental Quality Criteria Reference Document (Cockburn Sound)		Report to DoE within one working day when the guideline trigger level for a bio-accumulating toxicant referred to in condition 7-1 is exceeded. 2. Initiate an investigation against the environmental quality standards and into the cause of the exceedance in accordance with the framework developed in Revised Environmental Quality Criteria Reference Document (Cockburn Sound)	Operation		С	No "trigger" levels for bio-accumulating toxicants were exceeded during this period.	
665:M7.3	Ecological Protection Zones and Toxicant Criteria	If an environmental quality standard for a bio- accumulating toxicant, referred to in condition 7- 2, is exceeded, the proponent shall initiate a management response to determine the cause and remedy the exceedance in accordance with the implementation framework for the National Water Quality Management Strategy		CR	Operation		С	No management response required (Refer to M7.2 above).	
665:M7.4	Ecological Protection Zones and Toxicant Criteria	Determine and report to the Department of Environment whether the ANZECC & ARMCANZ 99% species protection guideline trigger levels (as published from time to time) for toxicants (with the exception of cobalt, where the 95% guideline shall apply), identified in accordance with the Sepia Depression Ocean Outlet Monitoring and Management Plans required by conditions 6-1 and 6-2, are being exceeded within the Zone of High Ecological Protection (i.e. beyond a 100 metre radius of the diffuser)	Implement the SDOOL Monitoring and Management Plan. Report through the SDOOL Annual Reports and this PCR.	CR MS 665 2019-20 Performance Compliance Report (this document) MS 665 M&MP Annual Report	Operation		С	Concentrations of toxicants were below ANZECC/ARMCANZ (2000) 99% species protection guideline "trigger" levels (95% for cobalt) for the reporting period. See Table 7, or Appendix A for detailed 2019-20 SDOOL ocean outlet monitoring.	
665:M7.5	Ecological Protection Zones and Toxicant Criteria	In the event that a guideline trigger level for a toxicant, referred to in condition 7-4 is exceeded, the proponent shall report the matter to the Department of Environment within one working day of determining that this has occurred, and shall initiate an investigation against the environmental quality standards and into the cause of the exceedance in accordance with the framework developed in Revised Environmental Quality Criteria Reference Document (Cockburn Sound)		Report to DoE within one working day when guideline trigger level for a toxicant referred to in condition 7-4 is exceeded. 2. initiate an investigation against the environmental quality standards and into the cause of the exceedance in accordance with the framework developed in Revised Environmental Quality Criteria Reference Document (Cockburn Sound)	Operation		С	No "trigger" levels for toxicants were exceeded during this period.	
665:M7.6	Ecological Protection Zones and Toxicant Criteria	If an environmental quality standard for a toxicant, referred to in condition 7-5, is exceeded, the proponent shall initiate a management response to determine the source and remedy the exceedance in accordance with the implementation framework for the National Water Quality Management Strategy		CR as appropriate	Operation	_	С	No management response required (Refer to M7.4 above).	
665:M8.1	New Discharges and Changes to Industrial Wastewater Discharge	The proponent shall not accept industrial effluent from industries not specified in schedule 1 unless a proposal has been referred to the Environmental Protection Authority		CR	Operation		С	No industrial waste has been accepted from industries other than those specified in Schedule 1 or approved via a Section 45C application to the OEPA	



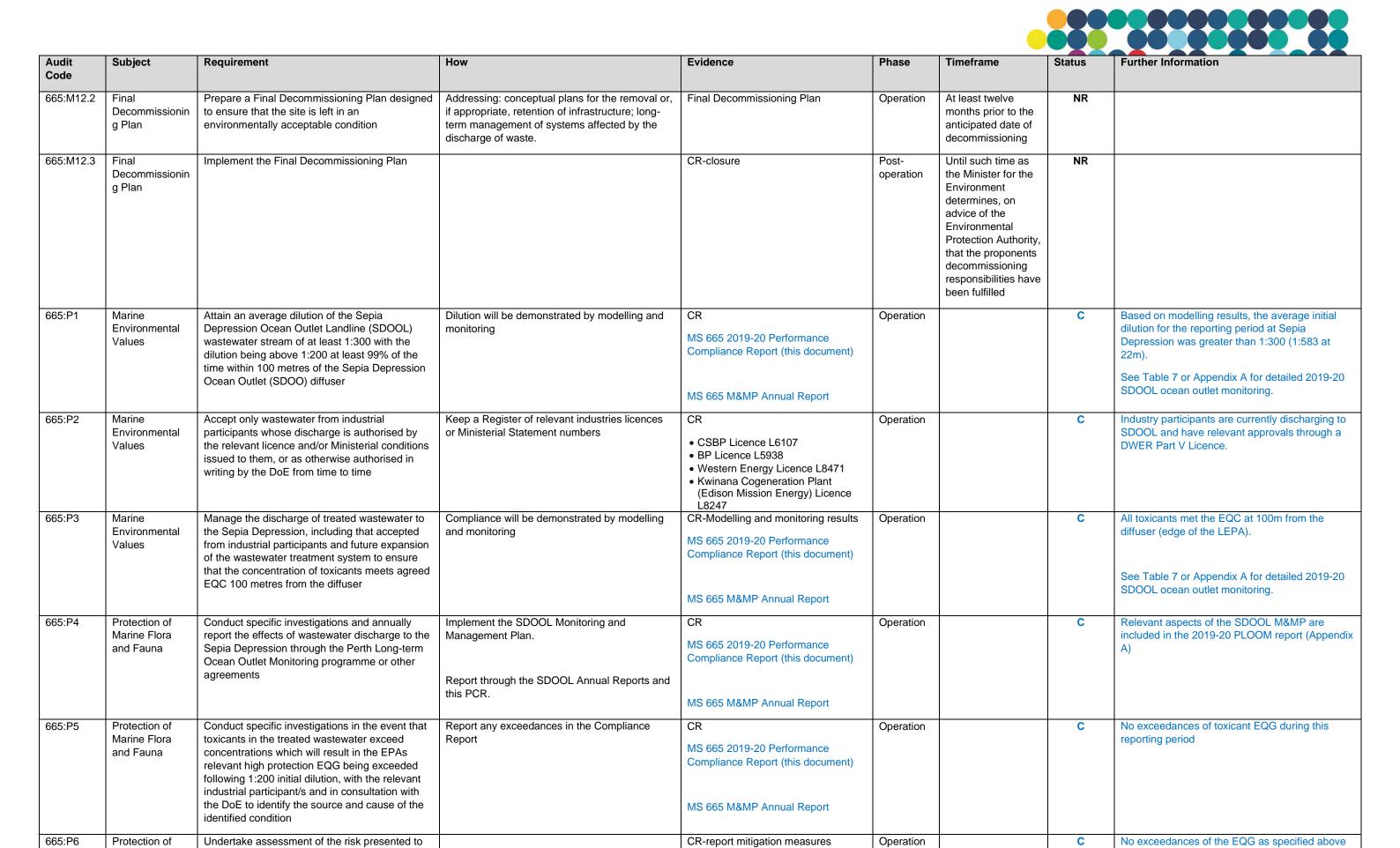




Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
665:M9.1	Toxicant Loads	The proponent shall only accept and convey effluent from the industry participants to the Sepia Depression where industrial toxicant loads to be discharged do not exceed those authorised for discharge into Cockburn Sound by the relevant individual industry Environmental Protection Act Part V licences	SDOOL M&MP Participant effluent monitoring data	CR Participant effluent monitoring data Communication protocols.	Operation		С	Effluent monitoring results are analysed individually and as a composite in accordance with the M&MP. Industry has been instructed to only discharge toxicant loads if they fall within Part V Licence criteria. Communication protocols have been developed to keep all parties aware of changes in discharge quality.
665:M9.2	Toxicant Loads	The proponent shall not accept discharges which are not licensed under Part V of the Environmental Protection Act 1986 into the Sepia Depression Ocean Outlet Landline for disposal to the Sepia Depression		CR • Woodman Point WWTP Licence L4201 • Point Peron WWTP Licence L4202 • Kwinana WWTP Licence L6543 • East Rockingham WWTP Licence L8960 • CSBP Licence L6107 • BP Licence L5938 • Western Energy Licence L8471 • Kwinana Cogeneration Plant (Edison Mission Energy) Licence L8247	Operation		С	All participants discharging to SDOOL are licensed under Part V of the EP Act. Note KWRP is not a prescribed premise so does not operate under a Part V Licence. KWRP only discharges Woodman Point WWTP treated wastewater back into SDOOL.
665:M10.1	Nitrogen Loads	Operate the Sepia Depression Ocean Outlet Landline so that the annual nitrogen load to the Sepia Depression does not exceed the nitrogen load discharged from the outlet in 1994		CR	Operation		С	TN load discharged to the Sepia Depression during the reporting period was 1,277 tonnes/year. This figure is within the 1994 level of 1,778 tonnes/year. See Section 3 of this PCR.
665:M10.2	Nitrogen Loads	In the event that subsequent monitoring shows an adverse environmental impact at the 1994 nitrogen load, the proponent shall reduce the annual nitrogen load to 75% of the load discharged from the outlet in 1994.		CR	Overall		С	Subsequent environmental monitoring not required.
665:M11.1	Sediment Quality	Monitor sediment quality within and at the boundary of the Zone of Low Ecological Protection, and report to the Department of Environment on whether sediments exceed the ANZECC & ARMCANZ Interim Sediment Quality Guidelines-low trigger levels	Implement the SDOOL Monitoring and Management Plan. Report through the SDOOL Annual Reports and this PCR.	CR Completed 2014/15 Sediment Survey and Report	Operation		С	Sediments are collected every five years as per the M&MP. A sediment survey was undertaken in 2014/15. No sample from any site exceeded the ISQG trigger levels.
665:M11.2	Sediment Quality	In the event that a guideline trigger level for sediment quality, referred to in condition 11-1, is exceeded, the proponent shall report the matter to the Department of Environment within one working day of determining that this has occurred, and shall initiate an investigation against the environmental quality standards and into the cause of the exceedance in accordance with the framework developed in Revised Environmental Quality Criteria Reference Document (Cockburn Sound).		1. Report to DoE within one working day when guideline trigger level for sediment quality referred to in condition 11-1 has been exceeded. 2. initiate an investigation against the environmental quality standards and into the cause of the exceedance in accordance with the framework developed in Revised Environmental Quality Criteria Reference Document (Cockburn Sound)	Operation		С	No "trigger" levels for sediment quality were exceeded during this period.
665:M11.3	Sediment quality	If an environmental quality standard for sediment quality referred to in condition 11-2 is not met, the proponent shall initiate a management response to determine the cause and act to prevent further sediment quality degradation		CR as appropriate	Operation		С	No management response required (Refer to M11.1 above).
665:M12.1	Preliminary Decommissionin g Plan	Prepare a Preliminary Decommissioning Plan, which provides the framework to ensure that the site is left in an environmentally acceptable condition	Addressing: conceptual plans for the removal or, if appropriate, retention of infrastructure; long-term management of systems affected by the discharge of waste.	Preliminary Decommissioning Plan	Overall	Before 1 May 2005	CLD	













in P5

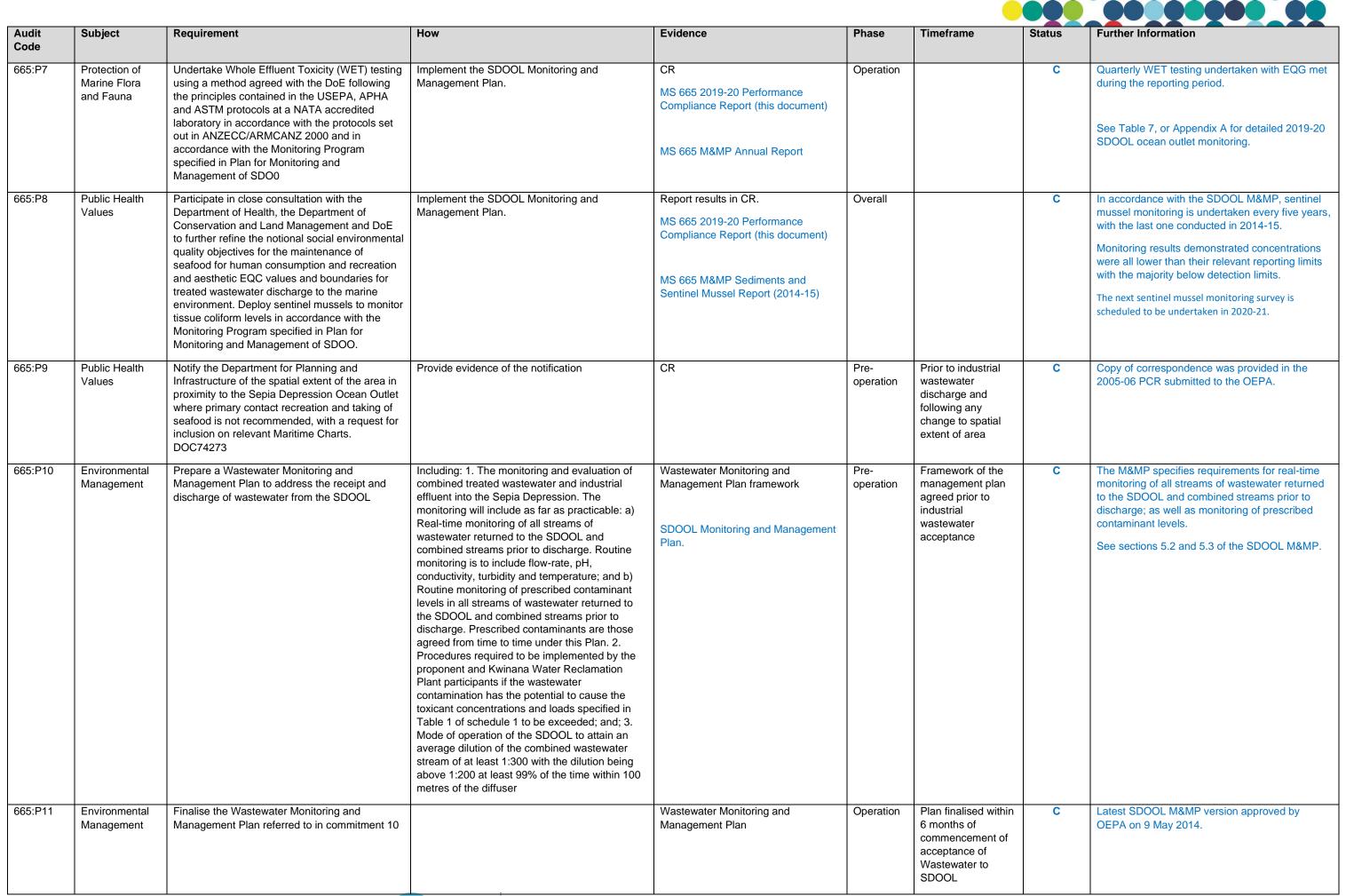
Marine Flora

and Fauna

the ecological processes in the Sepia

those risks

Depression by the exceedance in commitment 5, and undertake measures necessary to mitigate







WATER



						_		
Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
665:P12	Environmental management	Implement the Plan referred to in commitments 10 and 11	SDOOL M&MP	CR MS 665 2019-20 Performance Compliance Report (this document)	Operation		С	M&MP was fully implemented during the reporting period.
				MS 665 M&MP Annual Report				
665:P13.1	Stakeholder Consultation Strategy	Develop a Stakeholder Consultation Strategy	The Strategy will: Identify relevant stakeholders including community groups, environmental groups, local governments (including the City of Rockingham) and government agencies; Describe stakeholder consultation measures, having regard for the Governments consultation strategy; Require stakeholder input into the Plans and Strategies required to be prepared by these commitments; Describe opportunities to publicly review annual reports and data on the Sepia Depression Ocean Outlet environmental performance and monitoring programs; Make reports on Kwinana Water Reclamation Plant environmental performance readily available to the public and advertise their availability; Make the results of the Perth Long-term Ocean Outlet Monitoring programme readily available to the public and advertise their availability; Maintain a complaints/response record of actions taken to address matters arising from the project; and Present up to date information and data, consult on and receive input on current and possible future industry participation prior to any referral under section 38 of the Environmental Protection Act 1986	Stakeholder Consultation Strategy	Pre- operation	At least six months prior to industrial wastewater discharge	CLD	
665:P13.2	Stakeholder	Implement the Stakeholder Consultation		CR -report monitoring results,	Operation		С	The Stakeholder Consultation Strategy has been
	Consultation Strategy	Strategy		complaints and responses in the CR				implemented in accordance with the Terms of Reference.







7. Appendix A: Statement of Compliance



Statement of Compliance

1. Proposal and Proponent Details

Proposal Title	Use of the Cape Peron Outlet Pipeline to Dispose of Industrial Wastewater to the Sepia Depression, Kwinana
Statement Number	MS665
Proponent Name	Water Corporation
Proponent's Australian Company Number (where relevant)	28 003 434 917

2. Statement of Compliance Details

Reporting Period	1/07/19 to 30/06/20	

Implementation pha	se(s) during reporting	period (please tic	k √ rel	evant phase(s))
Pre-construction	Construction	Operation	1	Decommissioning

Audit Table for Statement addressed in this Statement of	_
Compliance is provided at Attachment:	2

An audit table for the Statement addressed in this Statement of Compliance must be provided as Attachment 2 to this Statement of Compliance. The audit table must be prepared and maintained in accordance with the Department of Water and Environmental Regulation (DWER) *Post Assessment Guideline for Preparing an Audit Table*, as amended from time to time. The 'Status Column' of the audit table must accurately describe the compliance status of each implementation condition and/or procedure for the reporting period of this Statement of Compliance. The terms that may be used by the proponent in the 'Status Column' of the audit table are limited to the Compliance Status Terms listed and defined in Table 1 of Attachment 1.

Were all implementation conditions and/within the reporting period? (please tick ✓	or procedures of the Statement complied the appropriate box)	with
No (please proceed to Section 3)	Yes (please proceed to Section 4)	1

3. Details of Non-compliance(s) and/or Potential Non-compliance(s)

The information required Section 3 must be provided for each non-compliance or potential non-compliance identified during the reporting period covered by this Statement of Compliance.

Non-compliance/potential non-compliance 3-1

Which im	nplementation condition or procedure was non-compliant	or potentially non-compliant?
Was the	implementation condition or procedure non-compliant or	potentially non-compliant?
On what	date(s) did the non-compliance or potential non-complia	nce occur (if applicable)?
Was this DWER?	non-compliance or potential non-compliance reported to	the Chief Executive Officer,
☐ Yes	☐ Reported to DWER verbally Date ☐ Reported to DWER in writing Date	□No
	the details of the non-compliance or potential non-compliand impacts associated with the non-compliance or potential	
	he precise location where the non-compliance or potentie)? (please provide this information as a map or GIS co-	
What was	s the cause(s) of the non-compliance or potential non-co	mpliance?
	nedial and/or corrective action(s), if any, were taken or a e to the non-compliance or potential non-compliance?	re proposed to be taken in
What me	easures, if any, were in place to prevent the non-complian occurred? What, if any, amendments have been made to ce?	nce or potential non-compliance o those measures to prevent re-
	rovide information/documentation collected and recorder or procedure:	d in relation to this implementation
inasth	the reporting period addressed in this Statement of Cors outlined in the approved Compliance Assessment Plarnis Statement of Compliance. Ve information may be provided as an attachment to this	for the Statement addressed in

4. Proponent Declaration

I, James Evans, A/Manager Environment, (full name and position title) declare that I am authorised on behalf of Water Corporation (being the person responsible for the proposal) to submit this form and that the information contained in this form is true and not misleading.

Signature: Date: 6-//- 20

Please note that:

- it is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give or cause to be given information that to his knowledge is false or misleading in a material particular; and
- the Chief Executive Officer of the DWER has powers under section 47(2) of the *Environmental Protection*Act 1986 to require reports and information about implementation of the proposal to which the statement relates and compliance with the implementation conditions.

5. Submission of Statement of Compliance

One hard copy and one electronic copy (preferably PDF on CD or thumb drive) of the Statement of Compliance are required to be submitted to the Chief Executive Officer, DWER, marked to the attention of Manager, Compliance (Ministerial Statements).

Please note, the DWER has adopted a procedure of providing written acknowledgment of receipt of all Statements of Compliance submitted by the proponent, however, the DWER does not approve Statements of Compliance.

6. Contact Information

Queries regarding Statements of Compliance, or other issues of compliance relevant to a Statement may be directed to Compliance (Ministerial Statements), DWER:

Manager, Compliance (Ministerial Statements)

Department of Water and Environmental Regulation

Postal Address: Locked Bag 10

Joondalup DC WA 6919

VV/ (00)

Phone: (08) 6364 7000

Email: compliance@dwer.wa.gov.au

7. Post Assessment Guidelines and Forms

Post assessment documents can be found at www.epa.wa.gov.au

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS:

ATTACHMENT 1

Table 1 Compliance Status Terms

Compliance Status Terms	Abbrev	Definition	Notes
Compliant	C	Implementation of the proposal has been carried out in accordance with the requirements of the audit element.	 This term applies to audit elements with: ongoing requirements that have been met during the reporting period; and requirements with a finite period of application that have been met during the reporting period, but whose status has not yet been classified as 'completed'.
Completed	CLD	A requirement with a finite period of application has been satisfactorily completed.	 This term may only be used where: audit elements have a finite period of application (e.g. construction activities, development of a document); the action has been satisfactorily completed; and the DWER has provided written acceptance of 'completed' status for the audit element.
Not required at this stage	NR	The requirements of the audit element were not triggered during the reporting period.	This should be consistent with the 'Phase' column of the audit table.
Potentially Non-compliant	PNC	Possible or likely failure to meet the requirements of the audit element.	This term may apply where during the reporting period the proponent has identified a potential non-compliance and has not yet finalized its investigations to determine whether non-compliance has occurred.
Non-compliant	NC	Implementation of the proposal has not been carried out in accordance with the requirements of the audit element.	This term applies where the requirements of the audit element are not "complete" have not been met during the reporting period.
In Process	IP	Where an audit element requires a management or monitoring plan be submitted to the DWER or another government agency for approval, that submission has been made and no further information or changes have been requested by the DWER or the other government agency and assessment by the DWER or other government agency for approval is still pending.	The term 'In Process' may not be used for any purpose other than that stated in the Definition Column. The term 'In Process' may not be used to describe the compliance status of an implementation condition and/or procedure that requires implementation throughout the life of the project (e.g. implementation of a management plan).