



Licence Number	L8796/2013/1
Licence Holder	Bendotti Exporters Pty Ltd
ACN	099 895 904
File Number:	2011/004646 - 1
Premises	WA Chips Franklin Street MANJIMUP WA 6258 Lot 689 on Deposited Plan175853
Date of Amendment	19/11/2018

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.

Caron Goodbourn

**Manager, Process Industries
Regulatory Services**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
AACR	Annual Audit Compliance Report
ACN	Australian Company Number
AER	Annual Environment Report
Amendment Notice	refers to this document
BGL	Below ground level
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 info@dwer.wa.gov.au
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DER	Department of Environmental Regulation
DWER	Department of Water and Environmental Regulation
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Amendment
Licence Holder	Bendotti Exporters Pty Ltd
Occupier	has the same meaning given to that term under the EP Act.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Amendment Notice applies, as specified at the front of this Amendment Notice.
Processed	refers to the transfer of whole potatoes from onsite storage to the potato processing facility where potatoes undergo washing, peeling, cutting and subsequent cooking or partial cooking and treatment with fats/oils to produce and package chips and wedges.
Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>
WWTS	Wastewater treatment system

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend licence L8796/2013/1 granted to Bendotti Exporters Pty Ltd (the Licence Holder) for its potato processing facility in Manjimup. This notice of amendment is given under section 59B(9) of the EP Act, upon the initiative of an Officer Delegated under section 20 of the EP Act. The key documents that have informed this Decision Report are detailed in Appendix 1.

Amendment description

This amendment:

1. removes the redundant Improvement Program conditions;
2. adds a works condition to replace and reinstate the Improvement Program IR2 condition requiring the installation and commissioning of four groundwater monitoring bores;
3. removes redundant conditions 2.2-2.4 which have no effect on the Licence, adding a new Condition 2.2 to note an emissions to air discharge point related to operation of a gas-fired boiler used in potato processing;
4. includes minor changes to wastewater discharge, surface water and groundwater monitoring requirements; and
5. includes minor changes to the input/output monitoring condition and updates reporting requirements (Condition 5.2.1) and the Premises maps.

Basis for the Amendment

1. The Existing Licence includes an improvement program under Condition 4.1.2 specifying three improvement requirements (IR1 to IR3), summarised as:

IR1: Installation of a flow meter at the WWTS discharge point capable of continuously measuring all discharge from the final treatment pond in the WWTS, due for completion by 30/04/2014;

IR2: Install and commission a minimum of three groundwater monitoring bores, due for completion by 30/06/2014; and

IR3: Report on a review of the performance of the WWTS, including assessment of the wastewater discharge and Smith Brook Dam water quality monitoring data and an assessment of the facultative ponds against specified recommendations in Water Quality Protection Note 39 – Ponds for stabilising organic matter (WQPN 39), due for completion by 30/09/2015.

A DWER review of the status of the implementation of the Improvement Program notes:

IR1: Completed in September 2017, following failure of the first flow meter installed to effectively monitor wastewater discharge volumes;

IR2: New bores were not installed. As an interim measure the Licence Holder reviewed the status of existing bores, commencing monitoring from four of five bores. (See point 2 below regarding reinstatement of a requirement to install new bores);

IR3: The Licence Holder submitted a response to IR3 on 2 March 2017 in the 2016 Annual Environmental Report.

The Delegated Officer has determined to remove the Improvement Program condition (4.1.2), noting that none of the scheduled infrastructure changes and associated reporting requirements were either achieved and/or attempted within the set timeframes. The DO has determined that a flow meter capable of continuously metering the wastewater discharged from the final pond to land, was finally installed in September 2017, completing the IR1 requirement.

The Delegated Officer has determined that the required review and reporting on the performance of the WWTS (IR3) has only been partially achieved and that, separate to reinstating the requirement (IR2) to install new groundwater monitoring bores (discussed below), the Delegated Office understands that the Licence Holder will be submitting a Works Approval application within the next 3 months. This application is expected to incorporate a review of the performance of the existing WWTS and provide details on proposed maintenance and upgrades to improve the water quality treatment capacity of the system.

2. The Delegated Officer has determined that based on:

- the age of existing groundwater bores at the Premises (understood to have been installed in 1985), the location of those bores and the absence of bore logs and information as to the standards applied and materials used at the time of their installation: and
- the age and poorly maintained status of the WWTS (in particular the three large facultative ponds), including not knowing when the ponds were constructed and how, unknown pond liner material and permeability, no records of pond desludging and observation of degraded pond walls and invasion /colonisation by surface and soil rooted vegetation;

four new groundwater monitoring bores (one up gradient and three down gradient of the three large facultative ponds) must be installed and commissioned under works condition 4.0

3. The Licence has been amended to delete the redundant Conditions 2.2 to 2.4, replaced by a new Condition 2.2 (Emissions to air), to note the operation and location of the gas fired boiler generating steam and power used in the potato processing facility. The DO understands that this gas fired boiler operates at a maximum fuel consumption rate of 378 kg/hour and does not undergo any form of filtering or treatment prior to discharge of fuel combustion products to air from a one metre length chimney positioned at 10.1 metres above ground level..

4. The Delegated Officer has reviewed the water quality data generated to date from the periodic sampling of wastewater discharged to land and is satisfied that the surfactant levels and majority of metals tested (excluding aluminium, copper and zinc) are only present at or below the limits of detection for reporting and can be removed from the parameters list. At the same time, the remaining metals to continue to be tested, are integrated into the sampling and testing schedule for all other parameters (ie monthly when discharging). The Delegated Officer has removed the same metals and surfactant testing requirements from the quarterly monitoring schedule for the surface water sampling point in Smith Brook Dam.

Subject to installation of the new groundwater monitoring bores and commencement of sampling from the new bores, the Delegated Officer has extended the nutrient parameters to include testing for the available forms of both nitrogen and phosphorus (in addition to Total N and Total P) to enable a more detailed investigation and assessment of wastewater nutrient contamination from the three large facultative ponds, potentially impacting on groundwater quality immediately adjacent to sensitive receptors (Smith Brook and Smith Brook Dam).

5. The Delegated Officer has reviewed Premises inspection reports and Annual Environmental Reports (2015 -2017) and in consideration of the Premises history of inadequate monitoring and reporting of water use in potato processing and wastewater generation and treatment, has determined minor changes to the inputs/outputs monitoring condition are required to clarify monitoring and reporting requirements, including the frequency of observing and recording flow meter readings. The Delegated Officer has also, in accordance with all amendments, updated the reporting condition 5.2.1 and the associated Premises maps as part of this amendment.

Premises Information

Premises background

Bendotti Exporters Pty Ltd (Bendotti) purchased the food processing facility on Lot 689 Franklin

Street, Manjimup in 2002. Historically, prior to Bendottis' ownership, the Premises had been licensed to previous owner – occupiers of the facility. Since Bendotti took over ownership of the Premises in 2002, they have processed potatoes to produce chips and wedges at the facility without a licence, prior to issue of the new licence on 14 March 2014 (L8796/2013/1). At the time the licence application was submitted, potato processing production capacity was set at 8000 tonnes/annum.

Since issuing the licence in March 2014 there have been numerous non-compliances with Licence conditions identified through reviews of annual reporting, premises inspections and reporting of an odour complaint in February 2017 associated with a blockage in the wastewater treatment system (WWTS). Two Environmental Field Reports (EFR's) were issued to the Licence Holder in March 2017 at the time of a Premises inspection. EFR 1003 issued on 28 March 2017 required the Licence Holder to install a suitable device to measure (in m³) wastewater generated from the processing of potatoes by 5 June 2017 (as required for monitoring by Condition 3.6.1 and reporting in Condition 5.2.1). EFR 1004, also issued on 28 March 2017, required the Licence Holder to take steps to ensure that the 300mm freeboard is maintained in the facultative ponds by 6 June 2017 (noting a breach of condition 1.3.2 (c) observed during the inspection on 27 March 2017).

The Premises inspection undertaken in March 2017 provided evidence indicating that the three large facultative ponds have been poorly maintained, including the observed presence of rubbish accumulated alongside several of the pond outer walls, extensive surface scums and presence of some weed / vegetation species on pond surfaces, damaged / eroded sections of pond walls and the presence of rooted sedges, bullrush and other vegetation growing in the pond walls and adjacent shallows of the ponds (i.e. growing out of accumulated pond sediments / sludge).

The Licence Holder first communicated with the department in September 2016 in regards to noting their intention to apply for a Licence Amendment to allow for an increased production throughput at the Premises (noting that for two out of three years annual reporting, actual production has exceeded the licence limit of 8000 tonnes per annum). DWER has since then, on several occasions, provided guidance and advice on information and improvements that would be required to undertake a risk assessment to review and authorise an increase in production, and therefore increased wastewater volumes generated for treatment and disposal.

DWER understands that the Licence Holder has been going through a process of obtaining quotes and specialist advice on changes to be made to the existing WWTS and is expecting the Licence Holder to submit a Works Approval for assessment within the next 3 months. Subject to the issue, implementation and compliance reporting on any future works authorised, the Delegated Officer considers that a full risk based licence review will be subsequently initiated to incorporate amendments related to works undertaken and other relevant changes at the Premises, including any proposal to increase production levels.

Process Description

The processing of potatoes to produce chips and wedges at this facility involves:

- receipt and short term storage of whole, unwashed potatoes, later graded and transferred to the potato processing plant;
- washing, scrubbing and peeling of potatoes then transferred into the main processing facility, with wash waters and solids transferred to a solids separator;
- separated solids are loaded into large crates, stacked and temporarily stored on a concrete hardstand, prior to off-site removal for use as animal feed;
- within the processing plant potatoes undergo various stages of cutting, steaming / partial cooking and addition of fat/grease coatings prior to packaging as chips or wedges;
- all wastewater from washing / solids separation, processing and cleaning down is

captured in a sump and pumped out to the WWTS.

Other approvals

The Licence Holder has a DWER Water Licence as noted in Table 2 below.

Table 2: Relevant approvals

Legislation	Number	Approval
<i>Rights in Water and Irrigation Act 1914</i>	SWL174077(2)	Surface water extraction from Smith Brook Dam

Amendment history

Table 3 provides the Licence and amendment history for L8796/2013/1.

Table 3: Licence amendments

Instrument	Issued	Amendment
L8796/2013/1	14/03/2014	New licence issued for an existing Premises
L8796/2013/1	29/04/2016	Amendment Notice to extend licence duration to 13 March 2028
L8796/2013/1	19/11/2018	Amendment Notice 1 – DWER initiated amendment to add and revise improvement conditions

Location and receptors

Table 4 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 4: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
Surficial groundwater	No nearby WIN bores. Groundwater depth at a nearby site is found within the saprolite weathered rock unit at 1-22mBGL, where the top layer of the soil profile (0-1mBGL) consists of laterite comprising gravelly silty sand.
Smith Brook – seasonal watercourse	Smith Brook passes through the north-eastern section of the Premises west to east (when flowing) to the downstream Smith Brook Dam (located within the adjacent Lot 3006). The watercourse lies approximately 90 metres from the WWTS discharge point (L1).
Smith Brook Dam	The Smith Brook watercourse runs a distance of approximately 600 metres from the point of intersection with the WWTS discharge pathway to where it flows into Smith Brook Dam. Smith Brook Dam is the water source treated and used by Bendotti Exporters Pty Ltd in the potato processing facility.

Risk assessment

Table 5 below describes the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. The table identifies whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 5: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
Cat 18 Food processing	Wastewater generated from potato processing, treated and stored in the premises WWTS	Discharges of nutrient rich wastewater to land, including other potential contaminants such as salts, oil and grease and metals (authorised direct discharge point)	Surface water (seasonal) - Smith Brook – 90m from discharge point, seasonal flow into Smith Brook Dam – 600m downstream	Direct discharge via runoff / overland flow	Surface water contamination	Minor – low level onsite impacts with minimal offsite impacts at the local scale	Possible – the risk event could occur at some time	Medium	The Delegated Officer (DO) notes the following: <ul style="list-style-type: none"> At the time of Licence issue the Licence Holder could not quantify the timing, frequency or quality of wastewater being intermittently discharged from the final facultative pond in the WWTS to land immediately adjacent to Smith Brook; Accurate metering of the discharge has been delayed through installation of inappropriate meters and failures to inspect and sample from the discharge point at the required frequency, resulting in minimal discharge data obtained to date; and Under high rainfall conditions it is considered feasible that discharge from the final pond could be transported to Smith Brook via runoff, subsequently flowing into Smith Brook Dam, which is the water source treated and used for the potato processing activity.
		Soils and groundwater – depth to surficial, highest seasonal groundwater estimated to be at or close to the surface	Direct discharge to land infiltrating through the soil and intercepting groundwater. Groundwater flows to adjacent Smith Brook.	Soil and groundwater contamination, including nutrients and elevated salts. Eutrophication of Smith Brook Dam may lead to algal blooms, potentially inclusive of	Moderate – mid-level onsite impacts and low level offsite impacts at the local scale	Possible - the risk event could occur at some time	Medium	In addition to the points noted above, the DO notes the following: <ul style="list-style-type: none"> Discharge water quality data reported to date indicates frequent exceedance of the target values set by Condition 2.5.2 with respect to nutrients (nitrogen and phosphorus), salts, suspended solids and oil and grease; The processing facility, operated under Bendotti Exporters, has been generating wastewaters with unknown volumes of discharge to land occurring adjacent to Smith Brook for 11-12 years preceding the Licence issue; and 	

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
				toxic algal species.				<ul style="list-style-type: none"> Aerial images of the three facultative ponds and Smith Brook Dam are indicative of eutrophic conditions, being significantly green in coloring, likely due to the presence of green and / or blue-green algal species. Smith Brook Dam is notably different in coloration from most other nearby dams.
	<p>Leaks (seepage) or overtopping of WWTS tanks and / or ponds -</p> <p>Discharge of nutrient rich wastewater to land, including other potential contaminants such as salts, oil and grease and metals</p>	<p>Soils, surface water and groundwater</p> <p>Smith Brook is located within 50 to 70 metres of the walls of the three large facultative ponds in the WWTS.</p> <p>Depth to surficial, highest seasonal groundwater estimated to be at or close to the surface N to NE of these ponds.</p>	<p>Direct discharge via overflow and / or pond leaks (seepage) infiltrating through the soil and intercepting groundwater.</p> <p>Groundwater flows to adjacent Smith Brook, flowing seasonally into Smith Brook Dam</p>	<p>Surface water, soil and groundwater contamination, including elevated nutrients and salts.</p> <p>Eutrophication of Smith Brook Dam may lead to algal blooms, potentially inclusive of toxic algal species.</p>	Moderate – mid-level onsite impacts and low level offsite impacts at the local scale	Possible - the risk event could occur at some time	Medium	<p>The DO notes the following:</p> <ul style="list-style-type: none"> The age and history of most of the ponds in the WWTS (in particular the bulk volume fermenter and the 3 facultative ponds) is not known and the integrity of the pond liners has not been tested or reported on; Based on site inspections and aerial images it is evident that pond walls (including the required freeboard) have not been well maintained; there are no records of pond sludge removal; and substantial surface and soil rooted vegetation has been allowed to grow on and in the facultative ponds, with a likely consequence of compromising the structural integrity of the pond walls; Current susceptibility to uncontrolled discharge events from the WWTS infrastructure is evidenced by the blockage / discharge overflow that occurred in February 2017; <p>The DO therefore considers that the installation of new groundwater monitoring bores (up and down hydraulic gradient of the ponds) is required to facilitate accurate determination of groundwater levels and quality. Data from bores down gradient of the ponds can be assessed against the up-gradient bore to detect potential subsurface ponding and wastewater contaminant impacts caused by leaks and discharges from the pond infrastructure</p>

Decision

1. The Delegated Officer has determined the Improvement Program Condition (4.1.2) is redundant, having regard to the timeframes set for the completion of the three specified improvement requirements.
2. The Delegated Officer has reviewed the requirement for new groundwater bores to be installed and commissioned having regard to:
 - the age, location and status of existing bores;
 - the age, condition and location of the three large facultative ponds in the wastewater treatment system and their proximity to sensitive receptors; and
 - the incident from February 2017 where a blockage in the sump receiving wastewater from the processing plant, resulted in an uncontrolled discharge of wastewater to land

and determined that four new groundwater monitoring bores are to be installed in accordance with the new works condition.

3. The Delegated Officer has determined that Condition 2.2-2.4 of the Existing Licence is redundant. The Licence is amended by removing existing Condition 2.2-2.4. Further to this the Delegated Officer has determined that, having regard to the operation of the gas fired boiler in the processing plant, this infrastructure and the emission point have been added to the Licence under Condition 2.2.
4. The Delegated Officer has determined that additional minor modifications to several existing Licence Conditions are necessary to ensure accurate and appropriate monitoring and reporting to provide data on current production levels and the associated water use and wastewater generated by the potato processing activity and to understand the volumetric holding and treatment capacity of the existing WWTS, including the frequency, volume and quality of treated wastewater discharged from the final treatment pond to land immediately adjacent to Smith Brook. The DO has also determined that several parameters for monitoring of the discharge to land and surface water are to be removed.
5. The Delegated Officer has amended the reporting condition 5.2.1 and the associated Premises maps in accordance with all amendments described above.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 25/10/2018. Comments received from the Licence Holder have been considered by the Delegated Officer as shown in Appendix 2.

Amendment

1. Definitions of the Licence are amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

~~'Director' means Director, Environmental Regulation Division of the Department of Environment Regulation for and on behalf of the Chief Executive Officer as delegated under section 20 of the Act;~~

'Director' for the purpose of correspondence means;
Regional Leader, Industry Regulation, South Coast Region
Department of Environment Regulation
120 Albany Hwy

ALBANY WA 6330
 Telephone: (08) 9842 4567
 Facsimile: (08) 9841 7105
 Email: Industryregsalbany@der.wa.gov.au

'CEO' means Chief Executive Officer.

CEO for the purposes of notification means:

Director General
Department Administering the Environmental Protection Act 1986
Locked Bag 33 Cloisters Square
PERTH WA 6850
info@dwer.wa.gov.au;

'Licence Holder': Bendotti Exporters Pty Ltd;

'Food' means raw, whole and unwashed potatoes;

'Processed' refers to the transfer of whole potatoes from onsite storage to the potato processing facility where potatoes undergo washing, peeling, cutting and subsequent cooking or partial cooking and treatment with fats/oils to produce and package chips and wedges;

- Condition 2.2-2.4 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline and new Table 2.2 below:

~~2.2-2.4 Point source emissions to air, surface water or groundwater~~

~~There are no specified conditions relating to point source emissions to air, surface water or groundwater in this section.~~

- The Licence Holder shall ensure that where waste is emitted to air from the emission point listed in Table 2.2 and identified on the Premises map in Schedule 1, it is done so in accordance with the conditions of this Licence.

Table 2.2: Emissions to air		
Emission point reference	Description	Source including abatement
<u>A1 - as located in the Premises map in Schedule 1</u>	<u>Emissions outlet / stack at 10.1 metres above ground level</u>	<u>Gas fired boiler operated at a maximum consumption rate of not more 378 kilograms/hour.</u>

- Condition 3.5.1 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

3.5 Monitoring of emissions to land

- The Licensee **Licence Holder** shall undertake the monitoring in Table 3.5.1 according to the specifications in that table.

Table 3.5.1: Monitoring of emissions to land			
Emission point	Parameter	Units	Frequency

reference			
L1	<u>Discharge volume</u> Volumetric flow rate¹	m ³	<u>Record flow meter reading weekly</u> continuous when discharging
	Oil and grease	mg/ L	Monthly when discharging (effective from 30/04/2013) Quarterly when discharging (01/07/2014 to 31/06/2016)
	pH ¹	pH unit	
	Total Biochemical oxygen demand	mg/ L	
	Total dissolved solids		
	Total nitrogen		
	Total phosphorus		
	Total suspended solids		
	Metals (total): aluminium; arsenic; cadmium; chromium; cobalt; copper; lead; mercury; nickel; and zinc		
Surfactants			

Note 1: In-field non-NATA accredited analysis permitted.

4. Condition 3.6.1 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

3.6.1 The ~~Licensee~~ Licence Holder shall undertake the monitoring in Table 3.6.1 according to the specifications in that table.

Table 3.6.1: Monitoring of inputs and outputs

Input/Output	Parameter	Units	Averaging period	Frequency
Water used	Total volume	Cubic meters (m ³)	Monthly cumulative total	Continuous (effective from 30/04/2013)
Wastewater generated				
Potatoes received	Total weight	Tonnes		
Potatoes processed				

Table 3.6.1: Monitoring of inputs and outputs

<u>Monitoring point reference as specified in Schedule 1</u>	<u>Description</u>	<u>Frequency</u>	<u>Units</u>
<u>M1</u>	<u>Flow meter continuously measuring water used in potato processing</u>	<u>Daily record of metered flow, when processing</u>	<u>m³</u>
<u>M2</u>	<u>Flow meter continuously measuring all wastewater entering the WWTS</u>		
<u>PR</u>	<u>Potatoes received</u>	<u>Each load arriving and measured at the weighbridge</u>	<u>tonnes</u>
<u>PP</u>	<u>Potatoes processed</u>	<u>Daily total of whole, unprocessed potatoes transferred from storage to the processing facility</u>	

5. The Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below::

3.8.1 The ~~Licensee~~ Licence Holder shall undertake the monitoring in Table 3.8.1 and ~~Table 3.8.2~~ according to the specifications in ~~that~~ those tables.

Table 3.8.1: Monitoring of ambient groundwater quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
GQ1 – GQ3 MB1; MB2; MB3 & MB4 (groundwater monitoring bores)	Standing water level [†]	m (AHD) m BGL	Spot sample	Quarterly - (effective from 30/06/2014) <u>Commencing within 30-40 days of bore installation date as required by Condition 4.1</u>
	pH 1	pH unit		
	Total dissolved solids	mg/L		
	Total nitrogen			
	Nitrate - nitrogen			
	Ammonia - nitrogen			
	Total phosphorus			
	Reactive phosphorus			
	Total suspended solids			

Note 1: In-field non-NATA accredited analysis permitted.

6. The Licence is amended by the deletion of the following Condition 4.1 :

4 — Improvements

4.1 Improvement program

~~4.1.1 The Licensee shall complete the improvements in Table 4.1.1 by the date of completion in Table 4.1.1.~~

~~4.1.2 The Licensee, for improvements not specifically requiring a written submission, shall write to the Director stating whether and how the Licensee is compliant with the improvement within one week of the completion date specified in Table 4.1.1.~~

Table 4.1.1: Improvement program		
Improvement reference	Improvement	Date of completion
IR1	The Licensee shall: 1) install and commission a volumetric flow meter located at the final treated wastewater discharge point (as labelled L1 and depicted in Schedule 1) capable of monitoring all wastewater discharged to the environment; 2) provide written notification, including photographic evidence, to the Director upon the volumetric flow meter being commissioned; and 3) direct all wastewater discharged from the wastewater treatment system to the environment through the CEMS volumetric flow meter.	30/04/2014
IR2	The Licensee shall: 1) install and commission at least 3 groundwater monitoring bores in the locations depicted in Schedule 1 in accordance with the document <i>Water Quality protection Note 30 Groundwater monitoring bores</i>; 2) ensure that the groundwater monitoring bores installed are capable of providing representative groundwater samples for monitoring of parameters specified in condition 3.8.1 when conducted in accordance with AS/NZS 5667.11; and 3) provide written notification, including photographic evidence, to the Director upon the groundwater monitoring bores being commissioned.	30/06/2014

IR3	<p>The Licensee shall:</p> <p>1) undertake a review of the performance of the wastewater treatment system which includes an assessment of all monitoring data available from the monitoring of parameters specified in condition 3.5.1 and 3.8.1 and against the relevant ANZECC guideline; and</p> <p>2) provide a written report to the Director upon the completion of the requirements of IR3(1) which includes:</p> <p style="margin-left: 20px;">a) a summary of the review, assessment and comparisons undertaken in requirement of IR3(1); and</p> <p style="margin-left: 20px;">b) an assessment of the facultative ponds operations against recommendations 9, 15, 27 and 42 of the document <i>Water Quality Protection Note 39 Ponds for stabilising organic matter</i>.</p>	30/09/2015
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7. The Licence is amended by the insertion of the following Condition 4, Works:

4 Works

4.1 The Licence Holder must install four groundwater monitoring bores located, constructed and installed to meet the siting, design and construction requirements set out in Table 4.1 and within the timeframe specified in Table 4.1.

Table 4.1: Installation of groundwater monitoring bores

Groundwater monitoring bores	Requirements – siting, design and construction	Timeframe
<i>MB1; MB2; MB3 and MB4, located as shown in the Schedule 1 Groundwater monitoring bores map¹</i>	<i>All bores are required to meet the installation/construction requirements of Minimum Construction Requirements for Water Bores in Australia (AIH 2012); be sited with regard to the Department of Water Quality Protection Note 30 Groundwater Monitoring Bores (DoW 2009) – Recommendations – siting of monitoring bores (WQPN 30); and have screened intervals that extend 3 to 6 meters below the water table.</i>	<i>Installation of all bores to be completed within 90 days of the issue date of this Amendment Notice</i>

Note 1: Schedule 1 Groundwater monitoring bores map denotes specified areas intended for locating the new bores. Specific siting of each bore is to take account of siting recommendations in WQPN 30.

4.2 The Licence Holder must locate the bores generally in accordance with locations shown in the Groundwater monitoring bores map in Schedule 1.

4.3 The Licence Holder must submit a compliance document to the CEO within 30 days of the completion date of the groundwater monitoring bores installation. The compliance document shall:

- (a) include a copy of each bore log recorded at the time of installation to include as a minimum the following:
- GPS coordinates of bore location
 - Start and finish dates of installation
 - Type of drilling method used
 - Diameters and depth of hole drilled
 - Complete strata details to include:

- i. well completion diagram;
- ii. lithological description, including strata depths;
- iii. standing water level; and
- iv. drilling penetration rates.
- Casing details to include:
 - i. type and diameter;
 - ii. class of pipe and/or wall thickness; and
 - iii. position within the hole and how it is secured and sealed.
- Slotted screening details to include:
 - i. length of slotted section and location;
 - ii. screen type, dimensions and location; and
 - iii. the gravel pack material and size.
- Bore development procedure and record, including total drilled depth
- Surveyed height (AHD) of each bore;

(b) certify that the bores were constructed in accordance with the requirements (siting, design and construction) as specified in Table 4.1;

(c) include photographs of each installed bore, identifying bore number; and

(d) be signed by a person authorised to represent the Licence Holder and contain the printed name and position of that person within the company;

8. The Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

5.2 Reporting

5.2.1 The Licensee Licence Holder shall submit to the Director CEO an Annual Environmental Report within 90 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
Condition 2.5.2, Table 2.5.2	Targets being exceeded	None specified
Condition 3.5.1, Table 3.5.1	Volumetric flow data <u>rate</u> , biochemical oxygen demand, oil and grease, pH, total dissolved solids, total nitrogen, total phosphorus, total suspended solids, <u>total</u> metals - (aluminium, <u>arsenic</u> , <u>cadmium</u> , <u>chromium</u> , <u>cobalt</u> , <u>copper</u> , <u>lead</u> , <u>mercury</u> , <u>nickel</u> , <u>and zinc</u>) and surfactants	Analysis of 'monitoring reports' <u>results presented in a tabular and graphical format, including trends analysis</u>
	Monthly and annual average load in kg/day of the following contaminants discharged to the environment as monitored at location L1: Biochemical oxygen demand; oil and grease; total dissolved solids; total nitrogen; and total phosphorus; total suspended solids; metals (aluminium, arsenic,	Analysis of 'monitoring reports' <u>in a tabular format</u> <u>None specified</u>

	cadmium, chromium, cobalt, copper, lead, mercury, nickel, zinc); and surfactants (from 30/04/2014)	
Condition 3.6.1, Table 3.6.1	<u>Water used in potato processing</u> , wastewater entering the WWTS, potatoes received and potatoes processed	Analysis of 'monitoring reports' <u>Monthly and cumulative totals</u> in a tabular format
Condition 3.8.1, Table 3.8.1 & <u>Table 3.8.2</u>	Standing water level, pH, total dissolved solids, total nitrogen, <u>ammonia - nitrogen, nitrate -nitrogen</u> , total phosphorus, <u>reactive – phosphorus</u> and total suspended solids <u>Biochemical oxygen demand, oil and grease, pH, total dissolved solids, total nitrogen, total phosphorus, total suspended solids, total metals (aluminium, copper and zinc)</u>	Analysis of 'monitoring reports' <u>results presented</u> in a tabular and graphical format, <u>including trends analysis</u>
Condition 4.1.1, 4.1.2, Table 4.1.1	Improvement IR1, IR2 and IR3 progress report	None specified
Condition 5.1.3	Compliance	Annual Audit Compliance Report (AACR). <u>Form accessed at: www.dwer.wa.gov.au</u>
Condition 5.1.4	Complaints summary	None specified

~~Note 1: Forms are in Schedule 2~~

9. The Licence is amended by the deletion of the AACR template in Schedule 2: Reporting and notification forms.

Schedule 1: Maps

Premises Map

The Premises is shown in the map below. The red line depicts the Premises boundary.



Licence: L8796/2013/1

Process map

The Premises surface water quality monitoring site WQ1 is shown in the [map](#) diagram below.



Groundwater monitoring bores

The map below shows the general location areas, marked as red rectangles, for four new groundwater monitoring bores to be installed under Condition 4.1



Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L8796/2013/1	Existing Licence	accessed at www.dwer.wa.gov.au
2	Premises Inspection Report 16 December 2014	Premises inspection / inspection report	DWER records A845720
3	2015 Annual Environmental Report, prepared by Enpoint Environmental Asset Management, 24 February 2016	2015 AER	DWER records A1142458
4	DER, 2015 AER Review, 12 September 2016	Review of annual reports	DWER records A1163126
5	DER, Internal Referral – Review of existing groundwater bores, 29 August 2016	NA	DWER records A1157682
6	DER, Correspondence post Scoping Meeting held 2 August 2016 – Future Licence Amendment		DWER records A1148743
7	2016 Annual Environmental Report, prepared by Enpoint Environmental Asset Management, 2 March 2017	2016 AER	DWER records A1387028
8	Premises Inspection 27 & 28 March 2017, Inspection Report	Premises inspection / inspection report	DWER records A1497948
9	2017 Annual Environmental Report, prepared by West Coast Analytical Services	2017 AER	DWER records A1628175
10	DWER, 2017 AER Review, 19 March 2018	Review of annual reports	DWER records A1636672
11	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	NA	accessed at www.dwer.wa.gov.au
12	DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.		
13	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.		
14	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.		

Appendix 2: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 25/10/2018 for review and comment. The Licence Holder responded after close of business hours on 15/11/2018. The following comments were received on the draft Amendment Notice.

Condition	Summary of Licence Holder comment	DWER response
3.6.1: Table 3.6.1 Monitoring of inputs and outputs	Requested requirement for daily readings of water used in potato processing (M1) and metered wastewater going to the WWTS (M2) to be changed to weekly when the potato processing plant is in the annual shut down period for repairs and maintenance.	The Delegated Officer has agreed to the requested change, modifying the frequency of these water meter reading recordings to apply only 'when processing'.
Works condition 4.1; Table 4.1	With respect to the issued Licence Amendment falling within a holiday period, the Licence Holder requested an unspecified extension to the timeframe for installation of the new groundwater monitoring bores to be completed.	The Delegated Officer has extended the timeframe from 60 days to 90 days.
5.2 Reporting: Table 5.2.1 Annual Environmental Report (AER)	The Licence Holder noted concern with meeting current AER deadline of submission within 60 days of the end of the annual period, requesting an extension of 30 days.	The Delegated Officer has agreed to extend the timeframe for submission of the AER from 60 days to 90 days after the end of the Annual Period.