

## ENVIRONMENT PROTECTION LICENCE

(Pursuant to section 34 of the *Waste Management and Pollution Control Act*)

<b>Licensee</b>	City of Palmerston*
<b>Licence Number</b>	<b>EPL233 - 02</b>
<b>Registered Business Address</b>	City of Palmerston* 2 Chung Wah Terrace Palmerston NT 0830
<b>ABN</b>	42 050 176 900
<b>Premises Address</b>	Lot 11497 Town of Palmerston plan(s) S2013/193 ELRUNDIE AVE, ARCHER
<b>Anniversary Date:</b>	19 December
<b>Commencement Date:</b>	19/12/2020
<b>Expiry Date:</b>	18/12/2025
<b>Scheduled Activity</b>	Operating <b>premises</b> , other than a sewage treatment plant, associated with collecting, transporting, storing, re-cycling, treating or disposing of a <b>listed waste</b> (as per Table 1) on a commercial or fee for service basis.
<b>Description</b>	City of Palmerston operates the Archer Waste Management Facility to consolidate and manage recyclables and waste prior to further transport to appropriate facilities. The Waste Transfer Station accepts listed waste in the form of used lead acid batteries (ULABs), paints and waste mineral oils.

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Table 1 - Listed Wastes Authorised to be Handled

Listed Waste	Collection	Transport	Storage	Treatment	Recycling	Disposal
Lead, lead compounds	✗	✗	✓	✗	✗	✗
Acidic solutions or acids in solid form	✗	✗	✓	✗	✗	✗
Waste from the production, formulation and use of inks, dyes, pigments, paints, lacquers and varnish	✗	✗	✓	✗	✗	✗
Waste mineral oils unfit for their original intended use	✗	✗	✓	✗	✗	✗
Waste mixtures, or waste emulsions, of oil and water or hydrocarbon and water	✗	✗	✓	✗	✗	✗

✓ Activity authorised by this licence

✗ Activity not authorised by this licence

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## ATTACHMENTS

- 1 Surface Water Monitoring Program.pdf

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### INFORMATION ABOUT THIS LICENCE

- This licence does not in any way relieve the licence holder from its obligations to comply with the *Waste Management and Pollution Control Act* (WMPC Act), including the general environmental duty in section 12 of the WMPC Act and the duty to notify of incidents causing or threatening to cause pollution under section 14 of the WMPC Act.

### Duration of a licence (section 40, 43 and 45 of the WMPC Act)

- A licence will remain in force until its expiry date or until it is surrendered by the licensee or is suspended or cancelled in accordance with the WMPC Act.
- The licensee must notify the Northern Territory Environment Protection Authority (NT EPA) within 14 days after ceasing to conduct the activity.
- The licensee may, with the approval of the NT EPA, surrender the licence to the NT EPA.

### Amendment or Revocation of a licence (section 37 of the WMPC Act)

- The licensee may apply to amend or revoke a condition of this licence.
- A fee applies and the application must be made using the designated form via NT EPA Online.
- The NT EPA may also amend or revoke a condition of this licence as set out in section 38 of the WMPC Act.

### Transfer of a licence (section 46 of the WMPC Act)

- The licensee can apply to transfer their licence to another person.

### Renewal of a licence (section 40 of the WMPC Act and section 3 of the Regulations)

- The licensee may apply for the renewal of their licence not earlier than 90 days, and not later than 30 days, before their licence expires.
- A fee applies and the application must be made via NT EPA Online.

### Public Register

- A copy of environment protection licences and any plans for environmental management, reports, submissions or documents required as a condition of an environment protection licence, will be placed on a register in accordance with section 9 of the WMPC Act.
- A copy of the Annual Return will be placed on the register.
- The NT EPA makes this register freely available from the NT EPA website.

### Environment Protection Objectives (Part 4 of the WMPC Act), and Water Quality Standards (section 73 of the *Water Act*)

- An Environment Protection Objective (EPO) is a statutory instrument to establish principles on which:
  - a. environmental quality is to be maintained, enhanced, managed or protected;
  - b. pollution, or environmental harm resulting from pollution, is to be assessed, prevented, reduced, controlled, rectified or cleaned up; and
  - c. effective waste management is to be implemented or evaluated.
- In accordance with section 18 of the WMPC Act a beneficial use, quality standard, criteria or objective declared under section 73 of the *Water Act* and in force is an environment protection objective for the purposes of the WMPC Act.

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- The following EPOs and Beneficial Use Declarations (BUDs) are relevant to this licence:
  - Declaration of Beneficial Uses and Objectives, Darwin Harbour Region.

### **Environmental Interests**

- This section highlights sensitivity of the surrounding land use and environment associated with the location of the approved activity.
- Sites of Conservation Significance - Darwin Harbour
- Directory of Important Wetlands - Port Darwin

### **Cultural Interests**

- It is the licensee's responsibility to contact the Aboriginal Areas Protection Authority, appropriate land council or other governing body and ensure that any Authority Certificates required as a result of conducting the licenced activity are obtained and complied with.

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### RULES FOR INTERPRETING THE CONDITIONS OF THIS LICENCE

- Where there is a discrepancy between the conditions of this licence and any plan, standard, guideline or other document referred to in this licence, the conditions of this licence prevail to the extent of the inconsistency.
- Any reference to any standard (Australian or international) in this licence means the relevant parts of the current version of that standard.
- A reference to any guideline or code of practice (or to the relevant parts of any guideline or code of practice) in this licence means the current version of the guideline or code of practice.
- Under section 39 of the WMPC Act, any contravention of or failure to comply with this licence by the licensee may be an offence.
- In determining whether the licensee has committed an offence, the licensee may be liable for the conduct of its directors, employees or agents.
- The licensee should ensure that each of its directors, employees, contractors or agents are aware of, and comply with, this licence.
- In this licence, unless the contrary intention appears, words that are defined in the WMPC Act are intended to have the meaning given to them in that Act.

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## LICENCE CONDITIONS

### GENERAL

- 1 The licensee must ensure the contact details recorded in NT EPA Online for this licence are correct at all times.
- 2 The licensee must at all times have a 24 hour emergency contact.
- 3 The licensee must pay the annual fee calculated in accordance with the method prescribed in the Regulations within 10 business days of the anniversary of the commencement date of this licence, for each year or part of a year that this licence is in force.
- 4 The licensee must cause clear and legible signage, in English, to be displayed in a prominent location at each public entrance to the premises that includes the following details:
  - 4.1 environment protection licence number issued under the WMPC Act; and
  - 4.2 24 hour emergency contact details.
- 5 The licensee must cause a copy of this licence to be available for inspection by any person, in hard copy form, at the premises.
- 6 The licensee must provide to the NT EPA, within 10 business days of a request, a copy of any document, monitoring data or other information in relation to the activity, in the format requested by the NT EPA.
- 7 All notices, reports, documents or other correspondence required to be provided as a condition of this licence, unless otherwise specified as a condition of this licence, must be provided in electronic form by uploading the document via NT EPA Online (or by emailing waste@nt.gov.au).
- 8 The licensee must maintain and implement documents listed in Table 2:

**Table 2 - Documents Relevant to Licensed Activity**

Reference	Document Title
-	Listed Waste Management Plan - Archer Waste Management Facility
171420-17	Archer Waste Transfer Station - Water Quality Monitoring and Management Plan

- 9 Within 10 business days of any amendment (other than typographical changes or revisions to formatting or referencing) being made to a document listed in Table 2 the licensee must provide the amended document to the NT EPA, along with:
  - 9.1 a tabulated summary of the amendment(s) with document references;
  - 9.2 reasons for the amendment(s); and
  - 9.3 an assessment of environmental risk associated with the amendment(s).
- 10 The NT EPA may require the licensee to revise or amend and resubmit any amended document. Where the NT EPA requires a document to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.
- 11 The licensee must, for the duration of this licence, implement, maintain and follow a Consultation and Communication Plan which includes a strategy for communicating with persons who are likely to have a real interest in, or be affected by, the activity.
- 12 The licensee must maintain a Complaint Log for all complaints received by the licensee in relation to the

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activity.

- 13 The licensee must ensure that the Complaint Log includes, for each complaint received by the licensee, the following information:
- 13.1 the person to whom the complaint was made;
  - 13.2 the person responsible for managing the complaint;
  - 13.3 the date and time the complaint was reported;
  - 13.4 the date and time of the event(s) that led to the complaint;
  - 13.5 the contact details of the complainant if known, or where no details are provided a note to that effect;
  - 13.6 the nature of the complaint;
  - 13.7 the nature of event(s) giving rise to the complaint;
  - 13.8 prevailing weather conditions at the time (where relevant to the complaint);
  - 13.9 the action taken in relation to the complaint, including any follow-up contact with the complainant; and
  - 13.10 if no action was taken, why no action was taken.
- 14 The licensee must implement, maintain and follow an Emergency Response Plan that addresses procedures for responding to emergencies associated with the activity that may cause environmental harm.

### EARLY SURRENDER OF LICENCE

- 15 Any reports, records or other information required or able to be provided by the licensee under this licence must be submitted to the NT EPA prior to the licensee surrendering the licence. If the date on which a report, record or other information is required falls after the date the licensee requests to surrender this licence, the licensee must provide the report, record or information as far as possible using data available to the licensee up to and including the date the request to surrender the licence is made.

### OPERATIONAL

- 16 The licensee must not collect, transport, store, recycle, treat or dispose of listed waste other than the listed waste specified in Table 1.
- 17 The licensee must ensure that listed waste found at the premises not specified in Table 1 is:
- 17.1 managed in accordance with the conditions of this licence; and
  - 17.2 not stored for longer than 20 business days.
- 18 The licensee must ensure that all materials that are likely to cause environmental harm are handled and stored in areas with a containment system in accordance with the relevant Australian Standard. Where no relevant Australian Standard exists, the containment system must be sized to contain 110% of the volume of the largest container within the area.
- 19 The licensee must ensure any plant and equipment used by the licensee in conducting the activity:
- 19.1 is reasonably fit for the purpose and use to which it is put;



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- 19.2 is maintained;
  - 19.3 is operated by a person trained to use the plant and equipment; and
  - 19.4 is operated by, or operated by a person accompanied by, a person trained to handle, store or dispose of listed waste in connection with the activity.
- 20 The licensee must ensure that wastewater generated from washing plant and equipment associated with the activity does not cause pollution.
- 21 The licensee must segregate waste received at the premises in clearly designated areas for recycling, re-use or disposal.
- 22 The licensee must segregate waste generated at the premises in clearly designated areas for recycling, re-use or disposal.
- 23 The licensee must ensure that litter:
- 23.1 is contained within the boundary of the premises;
  - 23.2 is not deposited or allowed to accumulate in stormwater drain(s), water or leachate dam(s); and
  - 23.3 does not accumulate along the boundary of the premises.
- 24 The licensee must not cause or permit waste to be burned.
- 25 The licensee must maintain a log of fires occurring at the premises including the following information:
- 25.1 the time and date of when the fire was reported;
  - 25.2 the circumstance which ignited the fire;
  - 25.3 the time and date of when the fire ceased and whether it burnt out or was extinguished;
  - 25.4 the location of the fire on the premises (e.g. green waste, putrescible waste);
  - 25.5 prevailing weather conditions;
  - 25.6 observations made in regard to smoke direction and dispersion;
  - 25.7 the amount of waste combusted by the fire; and
  - 25.8 action taken to extinguish the fire.
- 26 The licensee must notify the NT EPA of any fires at the premises by contacting the Pollution Hotline on telephone number 1800 064 567 as soon as practicable after (and in any case, within 24 hours after) first becoming aware of the fire. The licensee must provide the status of the fire and this licence number when contacting the Pollution Hotline.
- 27 The licensee must ensure that all listed waste being transported from the premises is transported by a person licenced under section 30 of the WMPA Act to transport the listed waste.
- 28 The licensee must comply with the National Environment Protection (Movement of Controlled Wastes between States and Territories) Measure.

### DISCHARGES AND EMISSIONS

- 29 The licensee must ensure there is no migration or overflow of a contaminant or waste, which causes or may cause environmental harm, beyond the boundary of the land on which the premises are located. (For the avoidance of doubt, this condition is not intended to authorise the discharge of a contaminant or

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waste to any land or water which discharge has not been specifically authorised by another condition of this licence.)

- 30 The licensee must not allow a contaminant or waste, which causes or may cause environmental harm, to enter water.
- 31 The licensee must ensure that stormwater does not come into contact with a contaminant or waste, which causes or may cause environmental harm.

### MONITORING

- 32 The licensee must conduct surface water monitoring in accordance with Attachment 1 (the Monitoring Program) of this licence.
- 33 The licensee must ensure that every sampling location is sampled in each sampling round. Where a sampling location is inaccessible or dry during a sampling round, further attempts must be made to sample in that same round should accessibility or water return to the location.
- 34 The licensee must ensure that all samples and field environmental data are representative of the conditions at the time of sampling.
- 35 The licensee must ensure that all samples and field environmental data are collected in accordance with recognised Australian Standards and guidelines (such as AS/NZS 5667, ANZG 2018).
- 36 The licensee must ensure that all monitoring samples are analysed at a laboratory with current NATA accreditation or equivalent, for the parameters to be measured.
- 37 The licensee must ensure any samples collected in accordance with this licence are obtained by, or under the supervision of a qualified sampler.
- 38 The licensee must ensure that, for each sample collected in accordance with the Monitoring Program or the activity, the following information must be recorded and retained:
  - 38.1 the date on which the sample was collected;
  - 38.2 the time at which the sample was collected;
  - 38.3 the location at which the sample was collected;
  - 38.4 the name of the person who collected the sample;
  - 38.5 the chain of custody forms relating to the sample;
  - 38.6 the field measurements (if any) and analytical results (if any) relating to the sample; and
  - 38.7 laboratory quality assurance and quality control documentation.

### RECORDING AND REPORTING

- 34 The licensee must maintain records of the nature, quantities and source of waste, other than listed waste, received at the premises in each successive 12 month period following the commencement date of this licence.
- 35 The licensee must keep and maintain records relating to the activity undertaken and the listed waste handled by the licensee in each successive 12 month period following the commencement of this licence, which include:
  - 35.1 the date of collection;

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- 35.2 the source of the listed waste;
  - 35.3 the name of the transport company, if not the licensee;
  - 35.4 the vehicle registration;
  - 35.5 a description of the listed waste;
  - 35.6 the quantity of the listed waste;
  - 35.7 the final destination of the listed waste; and
  - 35.8 whether the listed waste was stored, recycled, treated or disposed of.
- 36 The licensee must retain records relating to waste, including listed waste, as required by the conditions of this licence, for a period of 2 years after the end of the 12 month period to which the record relates.
- 37 The licensee must keep records of all non-compliances with this licence. These records must be adequate to enable the licensee to comply with the non-compliance notification conditions of this licence.
- 38 The licensee must notify the NT EPA of any non-compliance with this licence by completing the Non-Compliance Notification via NT EPA Online (or by emailing [waste@nt.gov.au](mailto:waste@nt.gov.au)), as soon as practicable after (and in any case within 24 hours after) first becoming aware of the non-compliance.
- 39 The licensee must include in the notification of non-compliance the following information:
- 39.1 when the non-compliance was detected and by whom;
  - 39.2 the date and time of the non-compliance;
  - 39.3 the actual and potential causes and contributing factors to the non-compliance;
  - 39.4 the risk of environmental harm arising from the non-compliance;
  - 39.5 the action(s) that have or will be undertaken to mitigate any environmental harm arising from the non-compliance;
  - 39.6 corrective actions that have or will be undertaken to ensure the non-compliance does not reoccur;
  - 39.7 if no action was taken, why no action was taken; and
  - 39.8 a date when an incident investigation report will be submitted to the NT EPA.
- 40 The licensee must keep records of all exceedances of trigger values specified in the most current Monitoring Program. These records must be adequate to enable the licensee to comply with the exceedance notification conditions of this licence.
- 41 The licensee must as soon as practicable (and in any case within 24 hours) after becoming aware, notify the NT EPA when a trigger value for a parameter specified in the most current Monitoring Program is exceeded on a single occasion where the parameter measures greater than or equal to two times the trigger value.
- 42 The licensee must ensure that the notification of the trigger value exceedance includes the following information:
- 42.1 when the exceedance was detected and by whom;
  - 42.2 the date and time of the exceedance;
  - 42.3 the actual and potential causes and contributing factors to the exceedance;

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- 42.4 the risk of environmental harm arising from the exceedance assessed in accordance with relevant standards as listed in Attachment 1;
  - 42.5 the action(s) that have or will be undertaken to address the exceedance and/or environmental harm; and
  - 42.6 if no action was taken, why no action was taken.
  - 42.7 a date when an incident investigation report will be submitted to the NT EPA.
- 43 The licensee must complete and provide to the NT EPA a Monitoring Report, as prescribed by this licence, by 31 May each year.
- 44 The licensee must ensure that each Monitoring Report:
- 44.1 is prepared in accordance with the requirements of the NT EPA 'Guideline for Reporting on Environmental Monitoring';
  - 44.2 includes a tabulation of all monitoring data required as a condition of this licence. Data must be provided electronically in Microsoft Excel format;
  - 44.3 includes long term trend analysis of monitoring data to demonstrate any environmental impact associated with the activity over a minimum period of three years (where the data is available). Data used in the analysis must be provided electronically in Microsoft Excel format; and
  - 44.4 includes an assessment of environmental impact from the activity.
- 45 The NT EPA may require the licensee to revise or amend and resubmit any Monitoring Report. Where the NT EPA requires the Monitoring Report to be resubmitted, the licensee must submit it to the NT EPA by the date specified by the NT EPA.
- 46 The licensee must submit a completed Annual Return via NT EPA Online within 10 business days after each anniversary date of this licence, which report relates to the preceding 12 month period.

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### END OF LICENCE CONDITIONS

This licence is not valid unless signed below:



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Leonie Cooper  
Director Environment Authorisations  
Delegate of the Northern Territory  
Environment Protection Authority  
Dated: 21/12/2020

### END NOTES

This licence is a renewal and supercedes EPL233-01

EPL233-01 was an amended licence issued on 1 May 2020.

EPL233 was issued on 26 April 2018 and superseded EPL96-01.

EPL96-01 was an amended licence issued on 13 April 2016.

EPL96 was issued on 19 December 2012.

The End Notes are to assist with historical records.

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### DEFINITIONS

All terms in the Licence which are defined in the *Waste Management and Pollution Control Act* have the meaning given in that Act unless otherwise or further defined in this section.

DEFINITION	In this licence, unless a contrary intention appears:
24 hour emergency contact	the phone number of a person who can be contacted at any time and be capable of responding to and providing information about any incident associated with the activity.
Activity	the Scheduled activity as described on the covering page of this licence.
Annual fee	yearly fee payable in respect of the activity as specified in the WMPC Act and the Regulations.
Annual Return	an NT EPA prescribed format for demonstrating and reporting compliance with the conditions of this licence and providing information on waste volumes for the preceding 12 month period.
ANZG 2018	Australian and New Zealand Guidelines for Fresh and Marine Water Quality. Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia.
Business days	a day not Saturday, Sunday or a public holiday, in the Northern Territory.
Complaint Log	a register of complaints to be maintained by the Licensee that records the details of each complaint received in relation to the activity.
Consultation and Communication Plan	a written plan documenting proposed consultation and communications for the activity before, during and after the activity which includes a strategy for communicating with members of the public who are likely to have a real interest in, or be affected by, the activity.
Contact details	includes the 24 hour emergency contact, and name, position title and phone number of a representative of the licensee who can be contacted about the licence and activity.
Contaminant	a solid, liquid or gas or any combination of such substances and includes: (a) noise, odour, heat and electromagnetic radiation; (b) a prescribed substance or prescribed class of substances; and (c) a substance having a prescribed property or prescribed class of properties.
Discharges	allow a liquid, gas or other substance to flow out from where it has been confined.
Emergency Response Plan	a written plan documenting the licensee's procedures for responding to emergencies caused by, resulting from or associated with the activity and that may cause environmental harm.
Environmental harm	(a) any harm to or adverse effect on the environment; or (b) any potential harm (including the risk of harm and future harm) to or potential adverse effect on the environment, of any degree or duration and includes environmental nuisance.
Environmental nuisance	means: (a) an adverse effect on the amenity of an area that: (i) is caused by noise, smoke, dust, fumes or odour; and

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(ii) unreasonably interferes with or is likely to unreasonably interfere with the enjoyment of the area by persons who occupy a place within the area or are otherwise lawfully in the area; or  
(b) an unsightly or offensive condition caused by contaminants or waste.

Incident	includes: (a) an accident, emergency or malfunction; and (b) a deliberate action, whether or not that action was taken by the person conducting the activity in the course of which the incident occurred.
Land	includes water and air on, above or under land.
Leachate	any liquid produced by the action of water percolating through waste, and that contains contaminants.
Listed waste	a waste included under Schedule 2 of the Regulations.
Litter	litter, garbage, rubbish, refuse or waste matter, and includes the body of a dead animal.
Maintain	kept in a manner that it does not present or cause a risk of environmental harm or a hazard to persons or property or, for the purposes of documents including plans, a process of reviewing and amending documentation to ensure it is relevant.
Material environmental harm	environmental harm that: (a) is not trivial or negligible in nature; (b) consists of an environmental nuisance of a high impact or on a wide scale; (c) results, or is likely to result, in not more than \$50,000 or the prescribed amount ( whichever is greater) being spent in taking appropriate action to prevent or minimise the environmental harm or rehabilitate the environment; or (d) results in actual or potential loss or damage to the value of not more than \$50,000 or the prescribed amount ( whichever is greater).
NATA	National Association of Testing Authorities, Australia.
Non-compliance	failure or refusal to comply, whether by act or omission, with obligations or requirements and includes any exceedance of a licence limit.
Non-compliance notification	an NT EPA prescribed format for notifying the NT EPA of a non-compliance.
NT EPA Online	online system for Environment Protection Licence (EPL), Environment Protection Approval (EPA) and Waste Discharge Licence (WDL) lodgement and maintenance.
Plant and equipment	all material items used in association with the activity, including (but not limited to) storage vessels and containers, pipe work and hosing, vehicles (including vessels), tools, and measuring equipment.
Pollute	(a) emit, discharge, deposit, or disturb, directly or indirectly, a contaminant or waste; or (b) cause, permit, or fail to prevent, directly or indirectly, the emission, discharge, deposition, disturbance or escape of a contaminant or waste.
Pollution	(a) a contaminant or waste that is emitted, discharged, deposited or disturbed or that escapes; or (b) a contaminant or waste, effect or phenomenon, that is present in the environment as a consequence of an emission, discharge, deposition, escape or disturbance or a contaminant or waste.

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Premises	the premises identified in this licence which includes equipment, plant and structures, whether stationary or portable, and the land on which premises are situated.
Public entrance	access to the premises that is utilised by the public.
Regulations	<i>Waste Management and Pollution Control (Administration) Regulations.</i>
Serious environmental harm	environmental harm that is more serious than material environmental harm and includes environmental harm that: (a) is irreversible or otherwise of a high impact or on a wide scale; (b) damages an aspect of the environment that is of a high conservation value, high cultural value or high community value or is of special significance; (c) results or is likely to result in more than \$50,000 or the prescribed amount ( whichever is greater) being spent in taking appropriate action to prevent or minimise the environmental harm or rehabilitate the environment; or (d) results in actual or potential loss or damage to the value of more than \$50,000 or the prescribed amount (whichever is greater).
Stormwater	water flowing over ground surfaces, in natural streams and drains as a direct result of rainfall over a catchment and consists primarily of rainfall runoff.
Waste	(a) a solid, a liquid or a gas; or (b) a mixture of such substances, that is or are left over, surplus or an unwanted by-product from any activity (whether or not the substance is of value) and includes a prescribed substance or class of substances.
Wastewater	water that contains a contaminant or waste.
Water	includes: (a) surface water, ground water and tidal waters; (b) coastal waters of the Territory, within the meaning of the Coastal Waters ( Northern Territory Powers) Act 1980 of the Commonwealth; and (c) water containing an impurity.
WMPC Act	the Northern Territory <i>Waste Management and Pollution Control Act.</i>



# Attachment 1 – Surface Water Monitoring Program

Parameter	Units	Trigger Value <sup>1</sup>	Sample Locations			
			Site Code	SW07	SW01	SW04
			Easting (m E)	715031	715054	714895
			Northing (m S)	8614965	8615118	8614982
			Frequency <sup>2</sup>			
<b>Field Measurement</b>						
Flow <sup>4</sup>	L/s	-	M	M	M	
pH	pH units	6 – 8.5 <sup>3</sup>	M	M	M	
Electrical Conductivity (EC)	µS/cm	-	M	M	M	
Dissolved Oxygen (DO)	% saturation	80 – 100 <sup>3</sup>	M	M	M	
Temperature	°C	-	M	M	M	
Turbidity	NTU	-	M	M	M	
<b>Metals/Metalloids (filtered (0.45µm) and unfiltered)</b>						
Cadmium (Cd)	µg/L	5.5 <sup>7</sup>	M	M	M	
Chromium (Cr) <sup>5</sup>		4.4 <sup>6,7</sup>	M	M	M	
Copper (Cu)		1.3 <sup>7</sup>	M	M	M	
Lead (Pb)		4.4 <sup>7</sup>	M	M	M	
Mercury (Hg)		0.4 <sup>7</sup>	M	M	M	
Nickel (Ni)		70 <sup>7</sup>	M	M	M	
Zinc (Zn)		15 <sup>7</sup>	M	M	M	
<b>Other</b>						
Chemical Oxygen Demand (COD)	mg/L	-	M	M	M	
Total Suspended Solids (TSS)		10 <sup>3</sup>	M	M	M	
Total Dissolved Solids (TDS)		-	M	M	M	
<b>Nutrients</b>						
Ammonia (NH <sub>3</sub> as N)	µg/L	20 <sup>3</sup>	M	M	M	
Total Nitrogen (TN)		300 <sup>3</sup>	M	M	M	
Total Phosphorous (TP)		30 <sup>3</sup>	M	M	M	
<b>Hydrocarbons</b>						
Total Recoverable Hydrocarbons (TRH)	µg/L	-	M	M	M	
Benzene		700 <sup>7</sup>	M	M	M	
Toluene		-	M	M	M	
Ethylbenzene		-	M	M	M	
Xylene		-	M	M	M	
Naphthalene		70 <sup>7</sup>	M	M	M	
<b>M</b> – Monthly during the months December to March	<sup>1</sup> – Trigger values only apply to monitoring location SW07 <sup>2</sup> – Only during months December to March <sup>3</sup> – Based on Darwin Harbour Water Quality Objectives (Marine and Estuarine Systems – Upper Estuary) <sup>4</sup> – Estimate the flow at the time of sampling <sup>5</sup> – Analyse for Trivalent and Hexavalent Chromium if total chromium exceeds trigger value <sup>6</sup> – Based on Hexavalent chromium 95% species protection ANZECC Water Quality Guidelines 2018 (ANZG 2018) <sup>7</sup> – Based on 95% species protection for marine waters ANZECC Water Quality Guidelines 2018 (ANZG 2018)					



