

Enforceable Undertaking

Environmental Protection Act 1994 (QLD)

Chemprod Nominees Pty Ltd (ACN 005 032 744) trading as Omega Chemicals

December 2024

The commitments in this undertaking are offered to the Administering Authority by the above person or entity.

THIS ENFORCEABLE UNDERTAKING is made on 4 December 2024.

1. The commitments in this undertaking are offered to the Chief Executive administering the Environmental Protection Act 1994 by:

Chemprod Nominees Pty Ltd
ACN 005 032 744
Trading as Omega Chemicals
Registered Office:
21 Paw Paw Road, Brooklyn VIC 3025

2. Definitions

The following definitions apply in this document.

Act means the *Environmental Protection Act 1994* (Qld).

BCC means Brisbane City Council.

Department means the Department of the Environment, Tourism, Science and Innovation.

EA means environmental authority EPPR00667413.

ERA 07 means environmentally relevant activity 07 as prescribed under Schedule 2 of the *Environmental Protection Regulation 2019* (Qld).

QFD means Queensland Fire Department.

Guideline means the Guideline – Enforceable undertakings under the Environmental Protection Act 1994 ESR/2016/2272 Version 2.02.

ISS means ISS First Response, a third-party emergency response company contracted by Omega Chemicals.

Site means 32-34 Boron Street, Sumner Park 4074 described as Lot 16 and 17 on RP168126.

Omega Chemicals means Chemprod Nominees Pty Ltd, ACN 005 032 744.

Undertaking means this enforceable undertaking made pursuant to Chapter 10, Part 5 of the Act.

3. Background

- (a) Chemprod Nominees Pty Ltd is the holder of the EA, which has been issued in relation to ERA 07 chemical manufacturing threshold 6(c) - manufacturing, in a year, the following quantities of inorganic chemicals, other than inorganic chemicals to which items 1 to 4 apply - more than 10,000t but not more than 100,000t at the site.
- (b) Chemprod Nominees Pty Ltd operates under the trading name Omega Chemicals.
- (c) Omega Chemicals has a compliance history in relation to its operations at the site, including having previously been issued the following enforcement notices for an unrelated series of offsite releases:

- (i) 1 x Environmental Protection Order (EPO);
- (ii) 1 x Penalty Infringement Notice (PIN); and
- (iii) 1 x Emergency Direction Notice.

4. Alleged contraventions

- (a) The Department alleges that on 16 December 2023, Omega Chemicals:
 - (i) unlawfully caused serious environmental harm, contrary to section **437(2)** of the Act by releasing contaminants into the receiving environment of the site and causing widespread impacts; and
 - (ii) unlawfully deposited a prescribed water contaminant (98% Sulphuric Acid) at another place, and in a way, so that the contaminant could reasonably be expected to wash, blow, fall or otherwise move into waters, a roadside gutter or stormwater drainage from the site, contrary to section **440ZG(a)(iii)** of the Act; and
 - (iii) being the holder of the EA, did contravene conditions A2, C1 and C2 of the EA contrary to section **430(3)** of the Act by releasing contaminants offsite.

5. Circumstances of the alleged contraventions

Incident

- (a) On Saturday, 16 December 2023, at approximately 10:00 am, outside of business operation hours, an Omega Chemicals employee arrived on site and discovered Sulphuric Acid Storage Tank 3 (containing approximately 147,000 litres of 98% Sulphuric Acid) was leaking from the base point.
- (b) The employee observed the tank contents pooling in the bund around the tank as well as escaping through a hole in the bund into the site's rear yard.
- (c) The incident involved a significant leak of Sulphuric Acid from Storage Tank 3, which was inadequately contained by the bund. The immediate actions by Omega Chemicals staff, ISS, QFD, BCC and the department in response to the leak attempted to mitigate the environmental impacts of the incident however these actions highlighted the failure in equipment maintenance and containment measures at the site.

Incident Response

- (d) On 16 December 2023, Omega Chemicals undertook the following actions in response to the incident:
 - (i) Utilised existing pumps onsite to remove Sulphuric Acid from the bund to reduce the risk of further bund failure.
 - (ii) Contacted ISS who established an earthen bund using approximately 150 cubic meters of soil in the rear yard to contain the migrating Sulphuric Acid and applied soda ash to areas of loose aggregate to protect the stormwater network and remedy any seepage.
 - (iii) Contacted the department's Pollution Hotline to report the release.
 - (iv) Contacted QFD who then removed the Sulphuric Acid from the bund using pumps and directed it to 1,000L Intermediate Bulk Containers (IBCs). This

operation continued throughout the night and into the next day, filling approximately 110 IBCs from the bund.

- (v) Treated critical points such as the sump and an open aggregate area with soda ash to neutralize the Sulphuric Acid. ISS were advised that for each 1,000L of Sulphuric Acid released, 1,870kg soda ash was needed to neutralise the low pH.
- (e) On 17 December 2023, departmental officers were engaged to respond to the incident. Additional actions undertaken by departmental officers, ISS, BCC and QFD at the site included:
 - (i) QFD scientific services tested the receiving environment of Wolston Creek and advised that bunding be implemented to prevent further releases.
 - (ii) BCC placed sandbags and banded the left-hand stormwater pipe on Spine Street to prevent further releases into the receiving environment.
 - (iii) Departmental officers conducted sampling and confirmed that liquid entering Wolston Creek from the site read at pH levels varying between pH 1 and 3.
 - (iv) Subsequent consultation was made between the department, ISS and Omega Chemicals to apply soda ash at multiple points in the receiving water to neutralise the pH to an acceptable level.
 - (v) On 18 December 2023, a vacuum truck service removed 60 IBCs worth of Sulphuric Acid from within the earthen bund on the site.

Emergency Direction Notice

- (f) On 18 December 2023, the department issued an Emergency Direction Notice Pursuant to section 467 of the Act to Omega Chemicals to carry out urgent action necessary to prevent or minimise the harm caused by the incident.
- (g) The notice required Omega Chemicals to:
 - (i) Remove contaminated material from the site.
 - (ii) Sample the stormwater discharge point at Spine Street for 7 days to demonstrate pH measures greater than 6 and less than 8.
 - (iii) Resample and recommence the 7-day timeline if results are non-compliant.
 - (iv) Store any recovered Sulphuric Acid at the premises as per 5.8.2 (Capacity) of Australian Standard 1940:2017 *The storage and handling of flammable and combustible liquids*.
- (h) Omega Chemicals complied with the requirements of the Emergency Direction notice as of 1 January 2024.

6. Impact of the incident

- (a) Ecological information gathered from Safety Data Sheets (SDS) on 98% Sulphuric Acid should not be allowed 'to enter waters, wastewater, or soil' and details that its introduction into the environment will cause ecotoxicological effects, including:
 - (i) Harmful effects on aquatic organisms.
 - (ii) Harmful effects due to pH shift.
 - (iii) Toxic effects on fish and algae.

- (iv) Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities.
- (b) On 17 December 2023, during the incident response, ISS advised the department that the 16 December 2023 release of Sulphuric Acid from the site was continuing and that evidence of Sulphuric Acid altering the pH levels within the Spine Street pipe outlet and subsequently within Wolston Creek was being observed.
- (c) The Wolston Creek catchment holds the environmental values of aquatic ecosystems, irrigation, farm supply/use, stock use, visual recreation, industrial use and cultural values as identified in the *Environmental Protection (Water and Wetland Biodiversity) Policy 2019* (the policy).
- (d) A 2023 annual review published by Wolston and Centenary Catchments Incorporated (**WaCC**) identified local platypus populations within Wolston creek via environmental DNA (eDNA). The results published by Wildlife Conservation Queensland (Platypus Watch) detailed that while no platypuses were recorded over the morning of the survey, the subsequent collection of eDNA samples revealed the positive detection of platypus DNA within the creek.
- (e) Water quality indicators in the policy state that pH levels should remain at 6.5 to 8 to allow for the protection of the waterway from habitat alteration, waste releases, contaminated runoff and changed flows to ensure healthy aquatic ecosystems and waterways that are safe for community use. During the incident response, QFD sampling results of pH levels between 3 – 4 were returned. Water quality objectives link a pH of less than 6 to inducing death within an aquatic environment, while a pH of 1 to 3 causes instantaneous death in the environment.
- (f) The department considers that despite mitigation measures implemented during the incident response, an unknown amount of Sulphuric Acid from the site entered the stormwater network and subsequent environment between 16 - 17 December 2023. Mass calculations provided by Omega Chemicals estimate the approximate volume of Sulphuric Acid to be released at approximately 10-15 litres. The impacts the incident would have had on the receiving environment are not considered trivial or negligible and serious environmental harm is alleged to have occurred.

7. Actions taken to prevent recurrence of the alleged contraventions

- (a) Omega Chemicals has implemented proactive measures to prevent any further contraventions of the Act and its EA.
- (b) Omega Chemicals is committed to undertaking and supporting works that provide a benefit to the community and environment that exceeds legislative requirements.
- (c) Omega Chemicals is implementing infrastructure improvements and operational controls under an Environmental Protection Order issued by the department for a previous release. This will contribute to the protection of environmental values in the receiving environment and include:
 - (i) Implementing recommendations made as required by Appropriately Qualified Persons (AQP).
 - (ii) Implementing an inspection and maintenance schedule of all release points on site to ensure that no contaminated liquid is deposited in another place or in a way that the contaminant could be reasonably be expected to wash, blow, fall or otherwise move into waters, a roadside gutter or stormwater drainage.
 - (iii) Specialist consultation from a Registered Professional Engineer of Queensland (RPEQ) and water engineers to determine if all infrastructure is fit

for purpose and its remaining lifetime. Infrastructure with highest priority for repair has been included in an expeditious maintenance schedule.

- (iv) In line with site level surveys, all 'clean' and 'dirty' water streams on site are now segregated and reused in the plant's process where possible. This ensures that any water potentially contaminated by operations is securely contained and managed in accordance with environmental best practices.
- (v) Infrastructure improvements including the repair and replacement of degraded stormwater pipes, bunding, storage facilities and loading bays. Drain camera surveys have been utilised on multiple occasions to visually identify areas of repair and maintenance in a proactive approach to leak detection.
- (vi) Weekly inspection, sampling and assessment of the Spine Street pipe outlet and Wolston Creek to ensure that measures implemented onsite prevent reoccurrence of the alleged release and environmental harm. Sampling to date has resulted in neutral pH readings in line with water quality guidelines.

8. Statement of Regret

Omega Chemicals genuinely regrets the circumstances leading to the alleged contraventions and acknowledges that the incident resulted in negative impacts to the receiving environment of Wolston Creek.

Omega Chemicals appreciates that the department has expended time and resources because of the alleged contraventions and is dedicated to fostering a culture of environmental stewardship and ensuring that its operations uphold the highest standards of environmental protection and compliance.

9. Statement of commitment that the behaviour, activities and other factors which caused or led to that alleged contraventions has ceased and will not reoccur

Omega Chemicals acknowledges the environmental impacts caused by the alleged contraventions and is publicly committed to taking decisive actions to rectify these issues and ensuring that such incidents do not reoccur.

Omega Chemicals is committed to changing the behaviours, activities and culture that led to the alleged release. Omega Chemicals has committed to the following actions:

- (a) Employment of a qualified Environmental Officer to manage and ensure compliance with regulations across Omega Chemicals' sites nationwide and an ongoing improvement of operational works in line with the objectives of the Act.
- (b) Increased awareness among all Omega Chemicals employees at the site of the connection to stormwater and the receiving environment, including the environmental values of Wolston Creek.
- (c) Participation of Omega Chemicals employees at the site in the proposed terms of this undertaking to foster an environmentally conscious workplace culture, accountability for employee actions and impacts on the local community.

10. Objectives

- (a) Improve environmental performance by implementing stringent controls to prevent contaminant releases and enhance monitoring systems.

- (b) Deliver benefits to the environment and local community through proactive engagement, transparency, and sustainable practices to restore the community's confidence in Omega Chemicals as a responsible environmental custodian.
- (c) Drive improvements in environmental performance across the industry by setting benchmarks and sharing best practices for pollution prevention and environmental management.
- (d) Enhance training and awareness programs for employees to ensure comprehensive understanding and adherence to environmental protocols and responsibilities.
- (e) Provide a benefit to the community and environment through research and rehabilitation of the local catchment of Wolston Creek.
- (f) Invest in research and development initiatives aimed at developing innovative technologies and practices that minimise environmental impact and enhance sustainability.
- (g) Establish clear communication channels and reporting mechanisms to promptly address any environmental concerns or incidents, ensuring swift corrective actions and continuous improvement.
- (h) Promote the objectives of the Act.

11. Terms of the Undertaking

Omega Chemicals undertakes to carry out the following:

ACTIVITIES	COST	TIMEFRAME
a) Fund and conduct community conservation works alongside WaCC. WaCC's community conservation works aim to conduct broad scale planting, weed management and erosion control at Wolston Road Park in Sumner. The joint project (see appendix A for full scope) will encompass an area of approximately 1200m² on the south side of Bullockhead Creek (see attached map zones D, B & A of appendix A). This project will expand WaCC's current work area from the northern side of Bullockhead Creek across to the southern side. Additionally, community planting events will be held each May, aimed at promoting local involvement and fostering community interest in the local environment. The project is planned to begin in March 2025 in Zone D. Post planting maintenance will be conducted for each zone over a period of 6 months, including weed management and watering to ensure a 90% survival of tube stock. Omega Chemicals employees at the site will participate in all aspects of the project, where determined appropriate by WaCC	\$20,000 every year	3 years Commencing in March 2025.

	to demonstrate their engagement with local community groups and commitment to environmental stewardship. Compliance with term 11 a) To demonstrate compliance with this term, Omega Chemicals commits to submitting a report to escompliancebrisbanemoreton@des.qld.gov.au on 1 December 2025, 1 December 2026 and 1 December 2027 which includes evidence of the following: I. Omega Chemicals' participation in community planting days. II. Weed management. III. Establishment watering. IV. Plant maintenance undertaken. To demonstrate compliance with this term, Omega Chemicals commits to submitting documented evidence of payment to WaCC to escompliancebrisbanemoreton@des.qld.gov.au as follows: I. 31 January 2025: \$20,000 lump sum. II. 31 January 2026: \$20,000 lump sum. III. 31 January 2027: \$20,000 lump sum.		
b)	Fund WaCC's soil sampling of the riparian area of Wolston Creek in Zones A, B and D of appendix A to determine soil stability and toxicology ensuring the success of revegetation efforts. Sampling is required in Zones A, B and D, with the possibility of sampling upstream, in Spine Street Park. Soil sampling in the riparian zone where pollutants are likely to have entered the creek over the years would enable WaCC to identify any impediments in the soil quality that may hinder the successful establishment of the native species. Assessment of the soil sampling will determine: - Soil capability, with comparative analysis of similar soil type, to ensure successful revegetation efforts. - Type and soil quantify constraints (e.g. soil pH, conductivity, moisture content, nutrient availability). - Soil fertility levels.	\$10,000 One off payment	Within 6 to 8 weeks of the first year of revegetation efforts.

	- Recommendations to be considered in revegetation delivery – including a note on the type and amount of fertiliser to be applied for optimum plant growth onsite; and possible reasons to explain poor plant performance. An assessment of the soil quality will enable an in-depth assessment of any chemical bioaccumulation effects of the alleged recurrent releases. Compliance with term 11 b) To demonstrate compliance with this term, Omega Chemicals commits to submitting the following evidence to escompliancebrisbanemoreton@des.qld.gov.au, including I. Proof of payment to the elected party on 31 January 2025 for \$10,000 lump sum; and II. A copy of the report as produced by the associated soil assessor.		
c)	Fund a vertebrate metabarcoding survey in the Wolston Catchment, to be conducted by Tamielle Brunt BAppSc. BAppSc (Hons). PhD Wildlife Science of the University of Queensland. This project aims to conduct an extensive five-year vertebrate metabarcoding survey across 12 sites in the Wolston Catchment area, focusing on Bullockhead and Sandy Creeks (see appendix B for scope). This survey will: Assess Long-Term Vertebrate Biodiversity: Identify vertebrate species present in local waterways using metabarcoding techniques and track changes over five years. Determine Species Distribution and Trends: Map the spatial and temporal distribution of these species across 12 strategic sites in the Wolston Catchment. Support Rehabilitation and Conservation Efforts: Provide data to support the rehabilitation of polluted areas and inform local conservation strategies. Enhance Community Engagement: Involve local communities in citizen science activities, promoting environmental awareness and stewardship. Promote success: The success of the project and the data collected over the 5 years will be well publicised for the benefit of the community and stakeholders involved.	\$22,500 Every year	5 years commencing on 31 January 2025.

	Overall, this initiative aligns with the regional Resilient River Initiatives, aiming for broader environmental impact. Omega Chemicals staff at the site will participate in all aspects of the project, where determined appropriate by Tamielle Brunt to demonstrate their engagement with local community groups commitment to environmental stewardship. Compliance with term 11 (c) To demonstrate compliance with this term, Omega Chemicals commits to submitting the following evidence to escompliancebrisbanemoreton@des.qld.gov.au on 1 December each year of this term commencing 1 December 2025 of: I. Participation in community engagement days. II. Participation in surveys, where deemed appropriate by Tamielle Brunt. III. Proof of payment for the associated costs to the University of Queensland by 31 January for each year included in this undertaking. IV. A copy of the report as produced by the associated works under term c). To demonstrate compliance with this term, Omega Chemicals commits to submitting documented evidence of payment for the survey to escompliancebrisbanemoreton@des.qld.gov.au as follows: V. 31 January 2025: \$22,500 lump sum VI. 31 January 2026: \$22,500 lump sum VII. 31 January 2027: \$22,500 lump sum VIII. 31 January 2028: \$22,500 lump sum IX. 31 January 2029: \$22,500 lump sum		
d)	Payment of the department's costs associated with this undertaking.	\$10,000	Payment is due 30 days after receipt of the department's invoice.

12. Why this Undertaking is a more appropriate response to the alleged contraventions than Court proceedings

Omega Chemicals earnestly believes that this undertaking is a more appropriate response to the alleged contraventions than a court-imposed sanction for the following reasons:

- (a) Omega Chemicals genuinely regrets the circumstances leading to the alleged contraventions.
- (b) Omega Chemicals has the financial ability to comply with the terms proposed in this undertaking.
- (c) The undertaking would provide an improved overall outcome for the environment rather than a court-imposed sanction, which would be punitive. The undertaking better aligns with the objective of the Act to improve the total quality of life, both now and in the future, in a way that maintains the ecological processes on which life depends.
- (d) Omega Chemicals believes in a collaborative and cooperative approach to environmental management. This undertaking would allow it to work closely with the department, environmental groups and the community.
- (e) This undertaking is a more efficient use of resources for both Omega Chemicals and the department. It would allow Omega Chemicals to focus on practical solutions and actions to support the community for the benefit of the environment, rather than engaging in lengthy and costly legal proceedings.
- (f) Through this undertaking, Omega Chemicals can commit to additional measures that go beyond regulatory compliance, such as environmental education programs, improved monitoring systems, and community engagement initiatives.

13. Acknowledgements

Omega Chemicals acknowledges that:

- (a) it has read and understood the Guideline;
- (b) this undertaking will be published on the department's website and may be referred to or referenced in other ways;
- (c) the department's acceptance of this undertaking means that the department:
 - (i) will not commence proceedings against Omega Chemicals for the alleged contraventions described in clause 4, as long as Omega Chemicals is fully complying, or has fully complied with the undertaking.
 - (ii) the department's acceptance of this undertaking does not affect the department's power to:
 - (A) bring proceedings against Omega Chemicals.
 - (B) issue penalty infringement notices; or
 - (C) take any other enforcement action against Omega Chemicals, in relation to any subsequent contravention or alleged contravention of the Act that is not the subject of this undertaking or another undertaking.
 - (iii) this undertaking in no way derogates from the rights and remedies available to any other person or entity arising from any conduct described in this proposal or arising from subsequent conduct;

- (iv) any failure to meet the due date for an action under the terms of this undertaking will result in the matter being escalated and may lead to enforcement action;
- (v) the department may undertake other compliance monitoring activities to verify the evidence and compliance with a term of this undertaking, and Omega Chemicals agrees to cooperate with the department in any investigation or compliance activity in respect of this undertaking such as site access and provision of documents upon reasonable notice;
- (vi) it has offered an undertaking on terms consistent with the approved form and the Guideline;
- (vii) this undertaking does not take effect until signed by Omega Chemicals and accepted by the department by signing this undertaking; and
- (viii) the date of the undertaking is the date it is signed by Omega Chemicals and accepted in writing by the department by signing this undertaking.

14. Ability to comply with the Undertaking

Omega Chemicals has the financial ability to comply with the terms of this undertaking.

In the event of impending liquidation or sale of Omega Chemicals, the department will be notified.

In the event that Omega Chemicals is sold prior to this undertaking being discharged, Omega Chemicals will advise any future owners or operators of the existence of this undertaking and provide a copy of this correspondence to the department.

15. Contact details

- (a) Any written notification to the department pursuant to this undertaking is to be provided to:

Brisbane Moreton Compliance at escompliancebrisbanemoreton@des.qld.gov.au

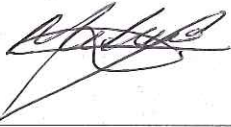
- (b) Any written notification to the Company pursuant to this undertaking is to be provided to:

Michael Fried, General Manager, 55 Fitzgerald Road, Laverton North, VIC 3026,
mfried@omegachem.com.au, 03 8368 8000

16. Execution

Executed by Omega Chemicals in accordance with Section 127 of the *Corporations Act 2001*:

- by an **Omega Chemicals** delegate, who certifies his authority to sign; and
- in the presence of a witness



Signature of Michael Fried, General Manager, Omega Chemicals

4 / 12 / 2024

Date

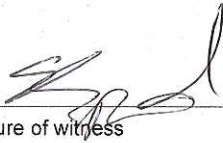


Signature of Witness

Ananya 4/12/2024

Name of Witness and Date

Accepted by Rob Lawrence on behalf of the
**Department of Environment, Tourism, Science
and Innovation** in the presence of



Signature of witness

EVA SHEPPARD 4/12/2024

Name of witness



Rob Lawrence, Deputy Director-General, Environmental Services and Regulation, Department of the Environment, Tourism, Science and Innovation

4 / 12 / 2024

Date



Wolston and Centenary Catchments
PO Box 937
Mount Ommaney QLD 4074
Email: info@wacc.org.au
ABN 71 225 489 038

Project Proposal for Community Conservation Work

Wolston Road Park, Sumner.

Version number: 03 Date 24th July 2024

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1 Introduction

The Project will be managed by Wolston and Centenary Catchments Inc. The project scope covers the supply of labour/ materials, and machinery to carry out broad-scale planting, weed management and erosion control at Wolston Road Park, Sumner. The scope of this Project below outlines details of the total project costs and costs per year over three years which amount to a total of \$60,000.

Wolston and Centenary Catchments (WaCC) has a strong interest in restoring the Bullockhead Creek corridor, as a strategic priority. The total area for this project is approximately 1200m² on the south side of Bullockhead Creek (see attached map zones D, B & A). This project will expand the current work area from the northern side of Bullockhead Creek across to the southern side of the Creek.

The site is characterised by open dry sclerophyll forest, poor soils, considerable pressure from weeds and flooding events. Plant species will be chosen for this bushland regeneration project to improve biodiversity by increasing vegetation density at a range of plant height levels. A dense high-level canopy of taller native trees will provide shade to cool the waterway and improve quality. Cooling the waterway, removing weeds and planting suitable native species will assist platypus populations to successfully inhabit this area. Additionally, planting a variety of native species and in particular, native species suitable for koalas will assist local populations as they migrate north from the Pooh Corner Bushland Reserve where they are currently being relocated.

Community planting events promote local involvement, foster community interest in the local environment, and inform the community of the value of bushland regeneration. Therefore, three community planting events are proposed for May each year over the three years during the cooler months and are likely to attract approximately 100 residents to each event.

The Project is planned to begin in February or March 2025 (weather permitting) with site preparation in Zone D. Zone D is the largest of the zones and the one with the least vegetation cover, therefore in a final assessment it may require higher numbers of plantings than the other two zones. There are also work safety issues to be reassessed in Zone A because the waterway banks are higher and prone to erosion.

The zones being planted will each require post-planting maintenance for a period of 6 months each including weed management and regular watering management sufficient to guarantee 90% survival of tube stock. Once the initial plantings are completed in zone D, maintenance would continue until early July or August 2025. In 2026 the schedule will be the same but in Zone C. In 2027 the schedule will be repeated but in Zone A.

2 Scope

Item	Cost \$ per yr (inc. GST)	Cost \$ (inc. GST)	Description
WaCC Project Management and Administration	1600.00	4800.00	Organising quotes; selecting contractors; managing invoices and payments; supervising contractors; reviewing and revising the Project Plan where necessary to conform to weather conditions, product availability and cost changes; volunteer reimbursements; site assessments and providing progress reports where and when required.
Initial Weed Control visit and follow-up treatment.	1250.00	3750.00	Suppress/ Control/ Eradicate in accordance with attached species list
Plants – purchase	2000.00	6000.00	Ground cover, mid-storey and upper canopy, with consideration to also improve koala and platypus habitat. Infill Groundcover/ Infill Mid storey/ Full Stratum in accordance with attached planting plan
Plants installation and materials supply	5300.00	15900.00	Soil cultivation and plant installation would be done in conjunction with the Community Volunteer works and event. When planting, fertiliser tablets, pre-watering the holes and liquid fertiliser after planting. Stakes and tree guard purchase and installation. Stakes and tree guards to be removed at end of project if sufficient maturity of tube stock.
Surface treatment – Supply	1000.00	3000.00	Install jute mesh with pins in accordance with manufacturer's guidelines, in areas prone to erosion.
Establishment Watering	2000.00	6000.00	Twelve establishment watering rotations would be carried out with the addition of fertiliser as required. Watering visitations would be scheduled at appropriate intervals and are subject to change dependent on weather and environmental factors
Establishment Maintenance	5200.00	15,600.00	Weed control carried out using integrated weed management techniques. Ensuring ecological best practice is utilised.
Community Planting Day Event, May 2025, 2026 & 2027	550.00 500.00 600.00	1650.00 1500.00 1800.00	Wildlife Show Coffee Van BBQ Sausage Sizzle
Total Cost (ex GST)	20,000.00	\$60,000.00	

3 Background

- The WaCC site is within Wolston Road Park and falls within Brisbane City Council's Habitat and Ecological corridor areas.
- Regional Ecosystem 12.3.7.
- Persistence of invasive vine species, including glycine, herbaceous invasive species including dyschoriste and Singapore daisy (particularly at the riparian), and woody weeds including lantana.
- Eastern grey kangaroos frequent the area and may compromise tube stock plants.

3.1 Planting and Maintenance Schedule

Activity	Frequency per Year	
Planting	1	Weather permitting begin in May each year with some infill planting if necessary to achieve 90% tube stock survival
Maintenance visits	6 to 12	Watering until tubestock established – up to 5 visits initially and continuing for 6 months.
Weed Control	6 to 12	Weed control during project with finalisation of project free of weeds in planted areas. On final visit remove all tree guards and stakes or when tube stock stable with low risk of kangaroo grazing

3.2 Planting Species list

This list is an example of those species suitable for this project site. The list will be expanded following further site assessments closer to the project beginning and then when reassessed each year. Any species already occurring onsite and doing well will be duplicated.

Scientific Name	Stratum	Spacing (indicative min)
<i>Euc tereticornis</i>	Canopy	10m
<i>M. quinquenervia</i>	Canopy	
<i>C. cunninghamiana</i>	Canopy	
<i>M. viminalis</i>	Canopy	
<i>Lophostemon suaveolens</i>	Midstorey	2m
<i>Acacia dispartima</i> and <i>A. species</i>	Midstorey	2m
<i>Lomandra hystrix</i>	Groundcover	0.3m in depressions and adjacent to riparian area

Planting Notes:

- Species to be placed in random pattern.
- *Lomandra* sp. and other herbs to be dispersed except in flood prone areas. *M. quinquenervia* and *C. cunninghamiana* to be planted in flood prone areas where there is insufficient existing canopy cover.
- Some planted areas will be covered with forest mulch, covered with jute mesh and pinned appropriately. This will vary depending on the amount of rainfall received as there is a risk of mulch being washed off site.
- Canopy species to be placed at intervals no closer than 10m
- Midstorey species to be placed at intervals no closer than 2m
- Groundcovers to be placed at intervals no closer than 0.3m
- Koala habitat species to be planted

3.3 Priority weeds List

Scientific Name	Common Name	Desired Mgmt Outcome
<i>Neonotonia wightii</i>	glycine	Eradication
<i>Lantana camara</i>	lantana	Eradication
<i>Dyschoriste depressa</i>	dyschoriste	suppression in planted area
<i>Sphagneticola trilobata</i>	Singapore daisy	Containment
<i>Ipomoea cairica</i>	Mile-a-Minute	Eradication
<i>Ricinus communis</i>	Castor oil plant	Eradication
<i>Megathyrsus maximus</i> var. <i>maximus</i>	Guinea grass	Suppression in planted area

4 Attachments

4.1 Map showing Zones D, B and A

These zones have been assessed by Brisbane City Council as being suitable for this Project.



RE 12.5.1a

RE 12.3.11

RE 12.3.14

RE 12.3.7

RE 12.3.12

0 25 50 75 100.0

Scale: 1:2,197

WaCC - Wolston Rd. Park
Regional Ecosystem - Pre Clearing Status

© WaCC - Wolston Rd. Park Regional Ecosystem - Pre Clearing Status
This map is a pre-clearing status map and should not be used for any other purpose.
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Appendix B

Five-Year Project Proposal: Vertebrate Metabarcoding Survey in the Wolston Catchment

Project Summary:

This project aims to conduct an extensive five-year vertebrate metabarcoding survey across 12 sites in the Wolston Catchment area, focusing on Bullockhead and Sandy creeks. The survey will identify and map the distribution and presence of vertebrate species over time, providing critical data to support catchment management, guide rehabilitation efforts in polluted areas, and engage the community in citizen science initiatives.

Vertebrate metabarcoding of water samples is an effective tool for assessing the health of our waterways and can help rehabilitation projects. This technique uses environmental DNA (eDNA) to detect and identify vertebrate species, providing a comprehensive overview of the biodiversity present waterways. By establishing baseline data on species presence and distribution, the community can monitor impacts of pollution and track changes over time as rehabilitation efforts are implemented.

Project Objectives:

- 1. Assess Long-Term Vertebrate Biodiversity:** Identify vertebrate species present in local waterways using metabarcoding techniques and track changes over five years.
- 2. Determine Species Distribution and Trends:** Map the spatial and temporal distribution of these species across 12 strategic sites in the Wolston Catchment.
- 3. Support Rehabilitation and Conservation Efforts:** Provide data to support the rehabilitation of polluted areas and inform local conservation strategies.
- 4. Enhance Community Engagement:** Involve local communities in citizen science activities, promoting environmental awareness and stewardship.
- 5. Promote success:** The success of the project and the data collected over the 5 years will be well publicised for the benefit of the community and stakeholders involved.

Budget

Item	Annual cost	Cost over 5 years
Fieldwork expenses	\$5,000	\$25,000
Laboratory consumables	\$500.00	\$2,500
DNA sequencing	\$7,000	\$35,000
GIS software and mapping	\$3,000	\$15,000
Community engagement activities	\$5,000	\$25,000
Educational outreach materials	\$2,000	\$10,000
Total	\$22,500.00	\$112,500.00

Developing an eDNA project is an important step for supporting the restoration and maintenance of healthy waterways as it provides the essential data needed to guide effective conservation efforts. More importantly, it helps the well-being and sustainability of our catchment, encourage community engagement, and create a legacy of environmental stewardship for future generations.