Development Consent

Section 89E of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning under delegation executed on 11 October 2017, I approve the Development Application referred to in Schedule 1, subject to the conditions specified in Schedule 2.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the Development.

Anthea Sargeant
Executive Director
Key Sites and Industry Assessments

Sydney 2018

SCHEDULE 1

Application No:	SSD 7195
Applicant:	Ledox Australia Pty Ltd
Consent Authority:	Minister for Planning
Site:	10 Lancaster Street, Ingleburn, NSW Lot 28 in DP 262432
Development:	The operation of a resource recovery facility with capacity to process up to 18,000 tonnes per year of used lead acid batteries and alterations and additions to an existing industrial building.

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DEFINITIONS

Applicant	Ledox Australia Pty Ltd, or any other person(s) authorised to carry out any development to which this consent applies
CEMP	Construction Environmental Management Plan
Certifying Authority	A person who is authorised by or under section 109D of the EP&A Act to issue Part 4A certificates
Conditions of this consent	The conditions contained in Schedule 2 of this document
Construction	The demolition of buildings or works, the carrying out of works, including earthworks, and erection of buildings and other infrastructure permitted by this consent
CEMP	Construction Environmental Management Plan
Council	Campbelltown City Council
Day	The period from 7 am to 6 pm on Monday to Saturday, and 8 am to 6 pm on Sundays and Public Holidays
Demolition	The removal of buildings, sheds and other structures on the site
Department	Department of Planning and Environment
Development	The development as described in the EIS and RTS, and as generally depicted in Appendix A
Earthworks	Bulk earthworks, site levelling, import and compaction of fill material, excavation for installation of drainage and services, to prepare the site for construction
EIS	Environmental Impact Statement titled: *10 Lancaster Street, Ingleburn NSW 2565 Battery Recycling Facility* prepared by JBA Urban Planning Consultants Pty Ltd dated August 2016
EPA	NSW Environment Protection Authority
EP&A Act	*Environmental Planning and Assessment Act 1979*
EP&A Regulation	*Environmental Planning and Assessment Regulation 2000*
EPL	Environment Protection Licence issued by the EPA under the POEO Act
Evening	The period from 6 pm to 10 pm
FRNSW	Fire and Rescue NSW
Heavy vehicle	Any vehicle with a gross vehicle mass of 4.5 tonnes or more
Incident	A set of circumstances causing or threatening material harm to the environment, and/or an exceedance of the limits or performance criteria in this consent
Land	In general, the definition of land is consistent with the definition in the EP&A Act
Management & Mitigation Measures	The Applicant's management and mitigation measures contained in the EIS/RTS and included in Appendix B
Material harm to the environment	Harm to the environment is material if it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Minister	Minister for Planning (or delegate)
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
Monitoring	Any monitoring required under this consent must be undertaken in according with section 122C of the EP&A Act
Night	The period from 10 pm to 7 am on Monday to Saturday, and 10 pm to 8 am on Sundays and Public Holidays
OEMP	Operational Environmental Management Plan
Operation	The receipt, sorting, separating, processing and removal of waste
PCA	Principal Certifying Authority authorised under section 109D of the EP&A Act
POEO Act	*Protection of the Environment Operations Act 1997*
Reasonable	Relates to the application of judgment in arriving at a decision, taking into account: mitigation benefits, costs of mitigation versus benefits provided, community views, and the nature and extent of potential improvements
RTS	Response to Submissions titled: *Response to Submissions State Significant Development (SSD 7195) 10 Lancaster Street, Ingleburn* prepared by JBA Urban Planning Consultants Pty Ltd dated May 2017
Secretary	Secretary of the Department (or nominee)
Sensitive Receivers	A location where people are likely to work or reside, this may include a dwelling, school, hospital, office or public recreational area
Site	The land listed in Schedule 1
SSD 7195	The development as described in Schedule 1, the EIS and the RTS
VENM	Virgin Excavated Natural Material as defined in the POEO Act
ULAB	Used Lead Acid Battery

Waste	Has the same meaning as the definition of the term in the Dictionary to the POEO Act
Year	A period of 12 consecutive months

SCHEDULE 2

PART A: ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

A1. In addition to meeting the specific performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the Development.

TERMS OF CONSENT

A2. The Development may only be carried out in:
- (a) compliance with the conditions of this consent;
- (b) accordance with the directions of the Secretary;
- (c) accordance with the EIS and RTS;
- (d) accordance with development layout plans and drawings in the EIS (see Appendix A); and
- (e) accordance with the Management and Mitigation Measures (see Appendix B).

A3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.

LIMITS OF CONSENT

A4. This consent lapses five years after the date from which it was granted, unless the Development has physically commenced on the land to which the consent applies before the date on which the consent would otherwise lapse under section 95 of the EP&A Act.

A5. The Applicant must not cause, permit or allow any materials or waste generated outside the site to be received at the site for storage, use, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by an Environment Protection Licence (EPL).

A6. The Applicant must not receive or process on site more than 18,000 tonnes per year or 1,500 tonnes per month of used lead acid batteries (ULABs).

A7. The Applicant must not store more than 20 tonnes of ULABs on site outside the approved hours of work.

A8. The Applicant must not generate more than 0.02 megalitres (ML) of wastewater per day.

STAGED SUBMISSION OF PLANS OR PROGRAMS

A9. With the approval of the Secretary, the Applicant may:
- (a) submit any strategy, plan or program required by this consent on a progressive basis; and/or
- (b) combine any strategy, plan or program required by this consent.

A10. If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program. A clear relationship between the strategy, plan or program that is to be combined must be demonstrated.

EVIDENCE OF CONSULTATION

A11. Where consultation with any public authority is required by the conditions of this consent, the Applicant must:
- (a) consult with the relevant public authority prior to submitting the required documentation to the Secretary or the certifying authority for approval;
- (b) submit evidence of such consultation as part of the relevant documentation required by the conditions of this consent;
- (c) describe how matters raised by the public authority have been addressed and identify matters that have not been resolved; and
- (d) include the details of any outstanding issues raised by the relevant public authority and an explanation of disagreement between any public authority and the Applicant.

STATUTORY REQUIREMENTS

A12. The Applicant must ensure that all licences, permits and approval/consents are obtained as required by law and maintained as required throughout the life of the Development. No condition of this consent removes the obligation for the Applicant to obtain, renew or comply with such licences, permits or approval/consents.

DEMOLITION

A13. The Applicant must ensure that all demolition associated with the Development is carried out in accordance with Australian Standard AS 2601:2001: The Demolition *of Structures*, or its latest version and the requirements of the *Work Health and Safety Regulation, 2011*.

STRUCTURAL ADEQUACY AND CERTIFICATION

A14. The Applicant must ensure all new buildings and structures, and any alterations or additions to existing buildings and structures are constructed in accordance with the relevant requirements of the BCA.

Note: *Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the Development.*

EXTERNAL WALLS AND CLADDING FLAMMABILITY

A15. The external walls of the building including attachments must comply with the relevant requirements of the NCC. Prior to the issue of a Construction Certificate and Occupation Certificate the Certifying Authority must:
(a) be satisfied that suitable evidence is provided to demonstrate that the products and systems proposed for use or used in the construction of external walls including finishes and claddings such as synthetic or aluminium composite panels comply with the relevant requirements of the NCC; and
(b) ensure that the documentation relied upon in the approval processes include an appropriate level of detail to demonstrate compliance with the NCC as proposed and as built.
(c) A copy of the documentation required under (b) must be provided to the Secretary within 7 days of being accepted by the Certifying Authority.

UTILITIES AND SERVICES

A16. Prior to the construction of any utility works associated with the Development, the Applicant must obtain relevant approvals from service providers.

A17. Prior to operation of the Development, the Applicant must obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site under section 73 of the *Sydney Water Act 1994*.

PROTECTION OF PUBLIC INFRASTRUCTURE

A18. Prior to the commencement of construction, the Applicant must:
(a) consult with the relevant owner and/or provider of services that are likely to be affected by the Development to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure;
(b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and
(c) submit a copy of this report to the Secretary and Council.

A19. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:
(a) repair, or pay the full costs associated with repairing any public infrastructure that is damaged by the Development; and
(b) relocate, or pay the full costs associated with relocating any infrastructure that needs to be relocated as a result of the Development.

COMPLIANCE

A20. The Applicant must ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities.

WORKS-AS-EXECUTED PLANS

A21. Prior to the issue of the final Occupation Certificate, works-as-executed drawings signed by a registered surveyor demonstrating that the stormwater drainage and finished ground levels have been constructed as approved, must be submitted to the PCA.

OPERATION OF PLANT AND EQUIPMENT

A22. The Applicant must ensure that all plant and equipment used for the Development is:
(a) maintained in a proper and efficient condition; and
(b) operated in a proper and efficient manner.

PART B: ENVIRONMENTAL PERFORMANCE AND MANAGEMENT

HUMAN HEALTH

B1. The Applicant shall ensure the Development is carried out in accordance with the *Work Health and Safety Regulation 2017* (WHS Regulation) and the requirements of SafeWork NSW.

B2. Prior to the commencement of operations, the Applicant shall prepare a Health and Safety Plan (HSP) for the Development to the satisfaction of the Secretary. The HSP must:
- (a) be prepared in consultation with SafeWork NSW;
- (b) describe the controls to ensure compliance with the WHS Regulation;
- (c) describe specific engineering controls to be implemented to reduce employee exposure to lead dust and other contaminants;
- (d) identify personal protective equipment (PPE) required for use onsite;
- (e) describe the procedures for training, education, awareness programs and inductions for site personnel to ensure adequate protection from human health risks; and
- (f) identify requirements for health monitoring for site personnel and decontamination procedures.

B3. The Applicant must:
- (a) not commence operation until the HSP is approved by the Secretary; and
- (b) carry out the Development in accordance with the most recent version of the HSP approved by the Secretary.

AIR QUALITY

Operational Procedures

B4. The Applicant must install and operate equipment in line with best practice to ensure the Development complies with all load limits, air quality criteria and air quality monitoring requirements as specified in the EPL for the site.

B5. The Applicant must ensure that all roller doors and personal access doors in the building remain closed while the ULAB recycling machinery is in operation except when required for ingress, egress or loading purposes.

Air Emission Control Equipment

B6. The Applicant must ensure that the wet scrubber is designed, constructed, operated and maintained to achieve a minimum control efficiency of 90 % for total suspended particulates and lead.

B7. The Applicant must install an automatic fail-safe cut-off switch to shut down the ULAB recycling machinery in the event of scrubber failure or a fire.

Dust Minimisation

B8. All reasonable steps must be taken to minimise dust generated during all works authorised by the consent.

B9. During construction, the Applicant must ensure that:
- (a) exposed surfaces and stockpiles must be suppressed by regular watering;
- (b) all trucks entering or leaving the site with loads must have their loads covered;
- (c) trucks associated with the Development do not track dirt onto the public road network;
- (d) public roads used by trucks associated with the development must be kept clean; and
- (e) land stabilisation works must be carried out progressively on site to minimise exposed surfaces.

Operational Air Quality Management Plan

B10. Prior to the commencement of operations, the Applicant must prepare an Operational Air Quality Management Plan (OAQMP) to the satisfaction of the Secretary. The OAQMP must form part of the OEMP required by Condition C4 and be prepared in accordance with Condition C6. The OAQMP must:
- (a) be prepared by a suitably qualified and experienced person(s);
- (b) detail and rank all emissions from all sources of the Development, including particulate emissions, lead, sulphuric acid mist and sulphur trioxide;
- (c) describe a program to evaluate the performance of the operation and determining compliance with key performance indicators;
- (d) identify the control measures that will be implemented for each emission source;
- (e) describe proactive and reactive management strategies; and
- (f) nominate the following for each of the proposed controls:

(i) key performance indicator;
(ii) monitoring method;
(iii) location, frequency and duration of monitoring;
(iv) record keeping;
(v) complaints register;
(vi) response procedures; and
(vii) compliance monitoring.

B11. The Applicant must:
(a) not commence operation until the OAQMP is approved by the Secretary; and
(b) carry out the Development in accordance with the most recent version of the AQMP approved by the Secretary.

Best Management Practice

B12. Prior to the commencement of construction, the Applicant must prepare a detailed Best Management Practice report (BMP report) to the satisfaction of the Secretary and in consultation with the EPA that demonstrates the air quality management and mitigation measures are consistent with best practice. The BMP report should demonstrate consistency with the *European Commission Integrated Pollution Prevention and Control* (IPPC) *Best Available Technique Conclusion (2016).*

B13. If the BMP report demonstrates that the air quality management and mitigation measures are not consistent with best practice, the Applicant shall investigate and implement further air quality management and mitigation measures as directed by the Secretary or the EPA.

B14. The Applicant must:
(a) not commence construction until the BMP report is approved by the Secretary; and
(b) carry out the Development in accordance with the most recent version of the BMP report approved by the Secretary.

Air Quality Verification

B15. Within 6 months of the commencement of operation, the Applicant must prepare and submit to the satisfaction of the Secretary a post-commissioning Air Emissions Verification Report (AEVR). The AEVR must:
(a) be undertaken by suitably qualified and experienced person(s);
(b) include the analytical results and report of two rounds of post-commissioning sampling for all emission points and air pollutants listed on the EPL; and
(c) include a comparison of the discharge concentrations and emission rates obtained from the analytical results against the prescribed concentrations contained in the *Protection of Environment Operations (Clean Air) Regulation, 2010*, the recommended EPL emission limits, the *Air Quality Impact Assessment - Battery Recycling Facility* prepared by Wilkinson Murray dated April 2017, and additional information contained in the RTS.

B16. If the results of the AEVR identify sampling results higher than the prescribed or recommended limits, the Applicant shall investigate and implement further air emission controls as directed by the Secretary or the EPA.

Odour Management

B17. The Applicant must ensure the Development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).

HAZARDS AND RISK

Pre-construction

B18. At least one month prior to the commencement of construction of the Development (except for construction of those preliminary works that are outside the scope of the hazards studies) or within such further period as the Secretary may agree, the Applicant shall prepare the studies set out under conditions B18 (a) to B18 (c) (the pre-construction studies). Construction, other than of preliminary works, must not commence until approval has been given by the Secretary in consultation with FRNSW.
(a) A **Fire Safety Study** (FSS) for the Development, including design of fire safety systems and strategies. This study must cover the relevant aspects of the Department's *Hazardous Industry Planning Advisory Paper (HIPAP) No. 2, 'Fire Safety Study Guidelines'* and the New South Wales Government's '*Best Practice Guidelines for Contaminated Water Retention and Treatment Systems'*. The Applicant must consult with FRNSW prior to the preparation of the Fire Safety Study.

(b) A **Hazard and Operability Study** (HAZOP) for the Development, chaired by a qualified person, independent of the Development, approved by the Secretary prior to the commencement of the study. The study shall be consistent with the Department of Planning's *HIPAP No. 8, 'HAZOP Guidelines*'. The study report must be accompanied by a program for the implementation of all recommendations made in the report. If the Applicant intends to defer the implementation of a recommendation, reasons must be documented. The Hazard and Operability Study must identify review of the scrubber system and liquid systems within the battery recycling process.

(c) A **Final Hazard Analysis** (FHA) of the Development, prepared in accordance with the Department's *Hazardous Industry Planning Advisory Paper No. 6, 'Hazard Analysis'.* The FHA shall:

(i) confirm and report, based on the final design of the facility, the estimated inlet concentration of sulphur oxides (SO_X, including acid mist) entering the scrubber during operation of the facility;

(ii) if this concentration identified under condition B18(c)(i) exceeds 0.05 parts per million (ppm), a risk assessment for scrubber failure must be included and reported in the analysis along with all relevant findings and recommendations (if any) from this risk assessment; and

(iii) be accompanied by a program for the implementation of all recommendations made in the analysis and the Preliminary Hazard Analysis (PHA) (June 2016). If the Applicant intends to defer the implementation of a recommendation, reasons must be documented.

B19. Prior to the commencement of construction, the final design of the development must be finalised in consultation with and to the satisfaction of Fire and Rescue NSW (FRNSW) and include suitable additional provisions for special hazards by specifically addressing Clauses E1.10 and E2.3 of Volume One of the National Construction Code (NCC) Series.

Pre-commissioning

B20. The Applicant must develop and implement the plans and systems set out under subsections (a) to (b) below. No later than two months prior to the commencement of commissioning of the Development, or within such further period as the Secretary may agree, the Applicant must submit for the approval of the Secretary documentation describing those plans and systems. Commissioning must not commence until approval has been given by the Secretary.

(a) A comprehensive **Emergency Plan** and detailed emergency procedures for the Development. The Emergency Plan must include detailed procedures for the safety of all people outside of the Development who may be at risk from the Development. The plan must be prepared in accordance with the Department's HIPAP No. 1, 'Emergency Planning'.

(b) A document setting out a comprehensive **Safety Management System**, covering all on-site operations and associated transport activities involving hazardous materials. The document must:

(i) clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to the procedures;

(ii) be developed in accordance with the Department of Planning's *HIPAP No. 9, 'Safety Management*'; and

(iii) include procedures to periodically verify that the inlet concentration of sulphur oxides (SO_X, including acid mist) entering the scrubber does not exceed the estimate of this concentration as reported in the FHA submitted under condition B18(c) during operation of the facility. The verification period shall take into account the relevant findings from the FHA.

(c) Records shall be kept on-site and shall be available for inspection by the Secretary upon request.

Pre-startup

B21. One month prior to the commencement of operation of the Development, the Applicant must submit to the Secretary, a Pre-Startup Compliance Report detailing compliance with Conditions B18 and B20, including:

(a) dates of study/plan/system submission, approval, commencement of construction and commissioning;

(b) actions taken or proposed, to implement recommendations made in the studies/plans/systems; and

(c) responses to any requirement imposed by the Secretary under Condition B25.

Post-startup

B22. Three months after the commencement of operation of the Development, the Applicant must submit to the Secretary, a Post-Startup Compliance Report verifying that:

(a) the Emergency Plan required under condition B20(a) is effectively in place and that at least one emergency exercise has been conducted; and

(b) the Safety Management System required under condition B20(b) has been fully implemented and that records required by the system are being kept.

Ongoing

Hazard Audit

B23. Twelve months after the commencement of operations of the Development and every five years thereafter, or at such intervals as the Secretary may agree, the Applicant shall carry out a comprehensive Hazard Audit of the Development. The audits must:
   (a) be carried out at the Applicant's expense by a qualified person or team, independent of the Development, approved by the Secretary prior to commencement of the audit;
   (b) be carried out in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 5, 'Hazard Audit Guidelines'; and
   (c) include a review of the site Safety Management System and a review of all entries made in the incident register since the previous audit.

B24. Within one month of each audit carried out in accordance with Condition B23, the Applicant must submit a report to the satisfaction of the Secretary for approval. The audit report must be accompanied by a program for the implementation of all recommendations made in the audit report. If the Applicant intends to defer the implementation of a recommendation, reasons must be documented.

Further Requirements

B25. The Applicant shall comply with all reasonable requirements of the Secretary in respect of the implementation of any measures arising from the reports submitted in respect of conditions B18 to B24 inclusive, within such time as the Secretary may agree.

WASTE MANAGEMENT

Statutory Requirements

B26. Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal, except as expressly permitted by an EPL.

B27. The Applicant must record the amount of waste (in tonnes) received at the site on a daily basis.

B28. The Applicant must retain all sampling and waste classification data for the life of the development and keep it readily available for inspection by the EPA and the Secretary.

B29. The Applicant must retain all weighbridge records as required by the *POEO (Waste) Regulation* and for the life of the development. The weighbridge records must be made immediately available on request by the Secretary and/or the EPA.

Receipt, Storage & Handling of Waste

B30. The Applicant must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the EPA's *Waste Classification Guidelines Part 1: Classifying Waste, November 2014*, or its latest version and dispose of all waste materials at a waste management facility or premises lawfully permitted to accept the materials.

B31. All waste must be stored wholly within the designated waste storage areas.

B32. All waste must be loaded and unloaded within the building.

B33. The Applicant must not receive ULABs directly from the general public at the site.

B34. All wooden pallets must be stored within an appropriate storage area within the building on the site at all times. The Applicant must ensure that all unused wooden pallets are collected weekly and transported to a facility that may lawfully accept them.

Wastewater

B35. The Applicant must install an alarm system which sounds and flashes once the amount of wastewater reaches 80 % of the total capacity of the 0.08 ML wastewater tank.

B36. The Applicant must ensure wastewater is collected when the wastewater tank reaches 80 % capacity and disposed of at a licenced facility which may lawfully accept the waste.

Waste Monitoring Program

B37. From the commencement of operations, the Applicant must implement a Waste Monitoring Program for the Development. The program must:
(a) be prepared by a suitably qualified and experienced person(s) prior to the commencement of operation;
(b) include suitable provision to monitor the:
(i) quantity, type and source of waste received on site; and
(ii) quantity, type and quality of the outputs produced on site; and
(c) ensure that:
(i) all waste that is controlled under a tracking system has the appropriate documentation prior to acceptance at the site; and
(ii) staff receive adequate training in order to be able to recognise and handle any hazardous or prohibited waste.

Waste Storage and Processing

Waste Management Plan

B38. Prior to the commencement of operations, the Applicant must prepare a Waste Management Plan for the Development to the satisfaction of the Secretary. The Waste Management Plan must form part of the OEMP required by Condition C4 and be prepared in accordance with Condition C6. The Plan must:
(a) detail the type and quantity of waste to be generated during construction and operation of the Development;
(a) describe the handling, storage and disposal of all waste streams generated on site, consistent with the *Protection of the Environment Operations Act 1997*, *Protection of the Environment Operations (Waste) Regulation 2014* and the *Waste Classification Guideline* (Department of Environment, Climate Change and Water, 2009);
(b) include details of stockpile limits of incoming ULABs;
(c) include procedures to be followed during unexpected processing machinery shut down;
(d) detail the materials to be reused or recycled, either on or off site; and
(e) include the Management and Mitigation Measures included in Appendix B.

B39. The Applicant must:
(a) not commence operation until the Waste Management Plan is approved by the Secretary; and
(b) implement the most recent version of the Waste Management Plan approved by the Secretary.

Bunding

B40. The Applicant must store all wastewater, chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or the EPA's *Storing and Handling of Liquids: Environmental Protection – Participants Handbook*.

B41. Prior to the issue of a Final Occupation Certificate, the Applicant must obtain written certification from a civil engineer that demonstrates the construction of bunds and liquid storage areas complies with all relevant Australian Standards, and/or the EPA's *Storing and Handling of Liquids: Environmental Protection – Participants Handbook*.

TRAFFIC AND ACCESS

Parking

B42. Prior to the commencement of operations, the Applicant must provide 15 on-site parking spaces for visitors and staff (including one accessible parking space) to ensure that traffic associated with the Development does not utilise public and residential streets or public parking facilities. Parking areas must be constructed in accordance with the latest version of AS 2890.

Operating Conditions

B43. The Applicant must ensure:
(a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the Development are constructed and maintained in accordance with the latest version of AS 2890.1 and AS 2890.2;
(b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines;
(c) vehicles no larger than 12.5 m (heavy rigid) are permitted to access the site;

(d) vehicles do not reverse onto the site;
(e) the Development does not result in any vehicles queuing on the public road network;
(f) heavy vehicles and bins associated with the Development are not parked on local roads or footpaths in the vicinity of the site;
(g) all vehicles are wholly contained on site before being required to stop;
(h) all trucks entering or leaving the site with loads have their loads covered; and
(i) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times.

Operational Traffic Management Plan

B44. Prior to the commencement of operations, the Applicant must prepare an Operational Traffic Management Plan (OTMP) for the Development to the satisfaction of the Secretary. The plan must form part of the OEMP required by Condition C4 and be prepared in accordance with Condition C6 and must:
(a) be prepared by a suitably qualified and experienced person(s);
(b) be prepared to the satisfaction of the Secretary prior to the commencement of operation;
(c) detail the measures that are to be implemented to ensure road safety and network efficiency including restricting queuing or parking of vehicles on Lancaster Street;
(d) detail heavy vehicle routes, access and parking arrangements;
(e) include a Driver Code of Conduct to:
(i) minimise the impacts on the local and regional road network;
(ii) minimise conflicts with other road users;
(iii) minimise road traffic noise; and
(iv) ensure truck drivers use specified routes; and
(f) include a program to monitor the effectiveness of these measures.

B45. The Applicant must:
(c) not commence operation until the OTMP is approved by the Secretary; and
(d) implement the most recent version of the OTMP approved by the Secretary.

WATER QUALITY, HYDROLOGY AND SOILS

Erosion and Sediment Control

B46. Prior to the commencement of construction, the Applicant must install and maintain suitable erosion and sediment control measures on-site, in accordance with the relevant requirements in the latest version of the *Managing Urban Stormwater: Soils and Construction Guideline*.

Soil Salinity Verification

B47. Prior to the commencement of earthworks, the Applicant must undertake a salinity verification study at the site. The salinity verification study must be undertaken:
(a) by a suitably qualified and experienced person(s);
(b) in accordance with the Office of Environment and Heritage (OEH) document *Guidelines to Accompany Map of Salinity Potential in Western Sydney* (2002); and
(c) to the satisfaction of PCA prior to the issue of an Occupation Certificate.

Discharge Limits

B48. The Development must comply with section 120 of the POEO Act, which prohibits the pollution of waters, except as expressly provided for in an EPL.

Chemical Spills and Fire Water Containment

B49. Prior to the commencement of operations and to the satisfaction of FRNSW, the Applicant must ensure:
(a) the stormwater isolation valve is automatically initiated upon either sprinkler activation and/or alternatively via activation of any Manual Call Point installed within the site;
(b) the stormwater isolation valve functionality should include a fail-safe function on power failure which automatically closes the valve. The stormwater isolation valve must remain in the closed position until a manual over-ride function is initiated upon confirmation that stormwater isolation is no longer required or once any contaminated water is disposed via trade waste or at a site that can lawfully receive the waste; and
(c) the location of the stormwater isolation valve and any associated controls must be clearly identified on the site's fire hydrant block plan, fire sprinkler block plan and the site plan located within the site's Emergency Response Plan.

Stormwater Management Plan

B50. The Applicant shall prepare a final stormwater design plan for the development. The stormwater design plan must:
(a) be prepared by a suitably qualified and experienced person(s) in consultation with Council and the EPA;
(b) be in accordance with Council's Engineering Requirements for Development and the latest version of *Managing Urban Stormwater: Council Handbook (EPA)*;
(c) be generally in accordance with the conceptual design in the EIS; and
(d) include a system to capture, contain and dispose of contaminated firewater, prepared in consultation with FRNSW and in accordance with Condition B49.

NOISE

Hours of Work

B51. The hours of work detailed in **Table 1** must be complied with.

Table 1: Hours of Work

Activity	Day	Time
Earthworks and construction	Monday – Friday Saturday	7 am to 6 pm 8 am to 1 pm
Operation	Monday – Saturday	7 am to 7 pm

B52. Works outside of the hours identified in Condition B51 may be undertaken in the following circumstances:
(a) works that are inaudible at the nearest sensitive receivers;
(b) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
(c) where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.

Construction Noise Limits

B53. The Development must be constructed to achieve the construction noise management levels detailed in the *Interim Construction Noise Guideline* (Department of Environment and Climate Change, 2009). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures in the EIS.

Operational Noise Limits

B54. The Applicant must ensure that noise generated by operation of the Development does not exceed the noise limits as specified in the EPL for the site.

Vibration Criteria

B55. Vibration caused by construction at any residence or structure outside the site must be limited to:
(a) for structural damage, German Standard *DIN 4150 Part 3 Structural Vibration in Buildings. Effects on Structures*; and
(b) for human exposure, the acceptable vibration values set out in the *Environmental Noise Management Assessing Vibration: a technical guideline* (Department of Environment and Conservation, 2006).

CONTAMINATION

B56. Prior to the commencement of construction, the Applicant must prepare an unexpected finds protocol to ensure that potentially contaminated material is appropriately managed. The protocol must form part of the CEMP required by Condition C1 and must ensure any material identified as contaminated must be disposed off-site, with the disposal location and results of testing submitted to the Secretary, prior to its removal from the site.

VISUAL AMENITY

Lighting

B57. The Applicant must ensure the lighting associated with the Development:

(a) complies with the latest version of *AS 4282 (INT) - Control of Obtrusive Effects of Outdoor Lighting*; and
(b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

PART C: ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

C1. The Applicant must prepare a Construction Environmental Management Plan (CEMP) to the satisfaction of the Secretary. The CEMP must:
- (a) be approved by the Secretary prior to the commencement of construction;
- (b) identify the statutory approvals that apply to the Development;
- (c) outline all environmental management practices and procedures to be followed during construction works associated with the Development;
- (d) describe all activities to be undertaken on the site during construction of the Development, including a clear indication of construction stages;
- (e) detail how the environmental performance of the construction works will be monitored, and what actions will be taken to address identified adverse environmental impacts;
- (f) describe the roles and responsibilities for all relevant employees involved in construction works associated with the Development; and
- (g) include the management plans required under Condition C2 of this consent.

C2. As part of the CEMP required under Condition C1 of this consent, the Applicant must include the following:
- (a) Erosion and Sediment Control Plan (see Condition B46); and
- (b) Unexpected Finds Protocol (see Condition B56).

C3. The Applicant must:
- (a) not commence construction of the Development until the CEMP is approved by the Secretary; and
- (b) carry out the construction of the Development in accordance with the CEMP approved by the Secretary (and as revised and approved by the Secretary from time to time).

OPERATIONAL ENVIRONMENTAL MANAGEMENT PLAN

C4. The Applicant must prepare an Operational Environmental Management Plan (OEMP) to the satisfaction of the Secretary. The OEMP must:
- (a) be submitted to the Secretary for approval prior to the commencement of operation;
- (b) be prepared by a suitably qualified and experienced expert;
- (c) provide the strategic framework for environmental management of the Development;
- (d) identify the statutory approvals that apply to the Development;
- (e) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the Development;
- (f) describe the procedures that would be implemented to:
  - (i) keep the local community and relevant agencies informed about the operation and environmental performance of the Development;
  - (ii) receive, handle, respond to, and record complaints;
  - (iii) resolve any disputes that may arise;
  - (iv) respond to any non-compliance;
  - (v) respond to emergencies; and
- (g) include the following environmental management plans:
  - (i) OAQMP (see Condition B10);
  - (ii) Waste Management Plan (see Condition B38);
  - (iii) OTMP (see Condition B44); and
  - (iv) Stormwater Management Plan (see Condition B50).

C5. The Applicant must:
- (a) not commence operation until the OEMP is approved by the Secretary; and
- (b) operate the Development in accordance with the OEMP approved by the Secretary (and as revised and approved by the Secretary from time to time).

MANAGEMENT PLAN REQUIREMENTS

C6. The Applicant must ensure that the environmental management plans required under Condition C4 of this consent are prepared by a suitably qualified person or persons in accordance with best practice and include:
- (a) detailed baseline data;
- (b) a description of:
  - (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);
  - (ii) any relevant limits or performance measures/criteria; and
  - (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the Development or any management measures;

(c) a description of the management measures that would be implemented to comply with the relevant statutory requirements, limits or performance measures/criteria;
(d) a program to monitor and report on the:
    (i) impacts and environmental performance of the Development; and
    (ii) effectiveness of any management measures (see (c) above);
(e) a contingency plan to manage any unpredicted impacts and their consequences;
(f) a program to investigate and implement ways to improve the environmental performance of the Development over time;
(g) a protocol for managing and reporting any:
    (i) incidents;
    (ii) complaints;
    (iii) non-compliances with statutory requirements; and
    (iv) exceedances of the impact assessment criteria and/or performance criteria; and
(h) a protocol for periodic review of the plan.

Revision of Strategies, Plans and Programs

C7. Within three months of:
(a) approval of a modification;
(b) approval of an annual review under Condition C8;
(c) submission of an incident report under Condition C9; or
(d) completion of an audit under Condition C12,

the Applicant must review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Secretary.

Note: *This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the Development.*

ANNUAL REVIEW

C8. Within 12 months from the commencement of operation, and each year thereafter, unless otherwise agreed by the Secretary, the Applicant must review the environmental performance of the Development to the satisfaction of the Secretary. This review must:
(a) describe the development that was carried out in the previous reporting period, and the Development that is proposed to be carried out over the next reporting period;
(b) include a comprehensive review of the monitoring results and complaints records of the Development over the previous reporting period, which includes a comparison of these results against the:
    (i) the relevant statutory requirements, limits or performance measures/criteria;
    (ii) requirements of any plan or program required under this consent;
    (iii) the monitoring results of previous reporting periods; and
    (iv) the relevant predictions in the EIS;
(c) identify any non-compliance over the last reporting period, and describe what actions were (or are being) taken to ensure compliance;
(d) identify any trends in the monitoring data over the life of the Development;
(e) identify any discrepancies between the predicted and actual impacts of the Development, and analyse the potential cause of any significant discrepancies; and
(f) describe what measures will be implemented over the next reporting period to improve the environmental performance of the Development.

REPORTING

Incident Reporting

C9. Within 24 hours of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment, a report must be supplied to the Department outlining the basic facts. A further detailed report must be prepared and submitted following investigations of the causes and identification of necessary additional preventive measures. That report must be submitted to the Secretary no later than 14 days after the incident or potential incident.

C10. The Applicant must maintain a register of accidents, incidents and potential incidents. The register must be made available for inspection at any time by the independent Hazard Auditor and the Department.

Regular Reporting

C11. The Applicant must provide regular reporting on the environmental performance of the Development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

AUDITING

Independent Environmental Audit

C12. Within one year of the commencement of operation, and every three years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit (audit) of the Development. Division 2B of Part 6 of the EP&A Act applies to these audits, which are for the purposes of ascertaining information in relation to the environmental performance of the Development and the adequacy of strategies, plans and programs. Audits must:

(a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
(b) include consultation with the relevant agencies;
(c) assess the environmental performance of the Development and assess whether it is complying with the requirements in this consent, and any other relevant approvals, relevant EPL(s) (including any assessment, plan or program required under these approvals);
(d) review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and
(e) recommend measures or actions to improve the environmental performance of the Development, and/or any strategy, plan or program required under these consents.

Note: *This audit team must be led by a suitably qualified auditor, and include relevant experts in any other fields specified by the Secretary.*

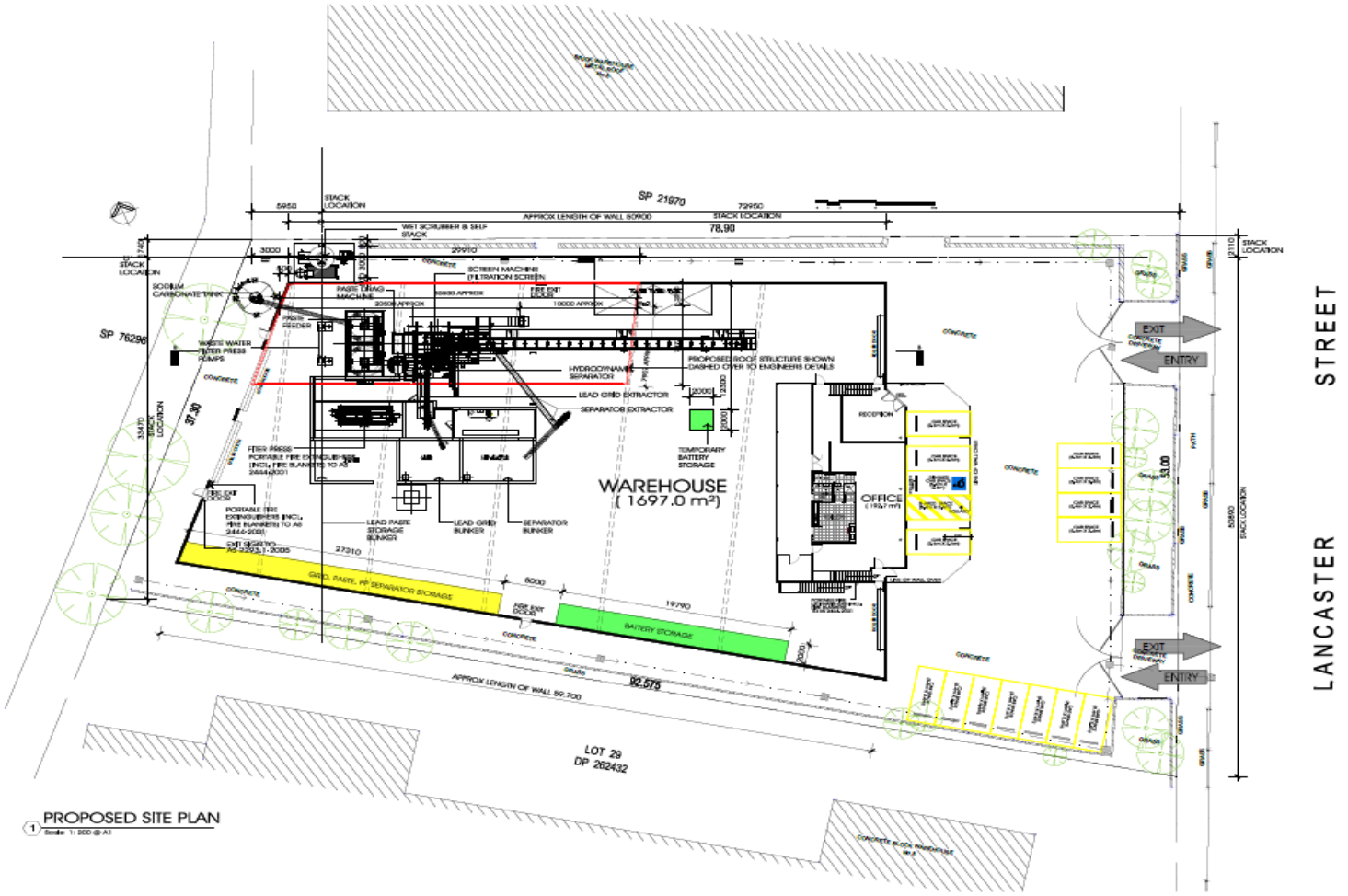
C13. Within three months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, and a timetable for the implementation of the recommendations. The Applicant must implement these recommendations to the satisfaction of the Secretary.

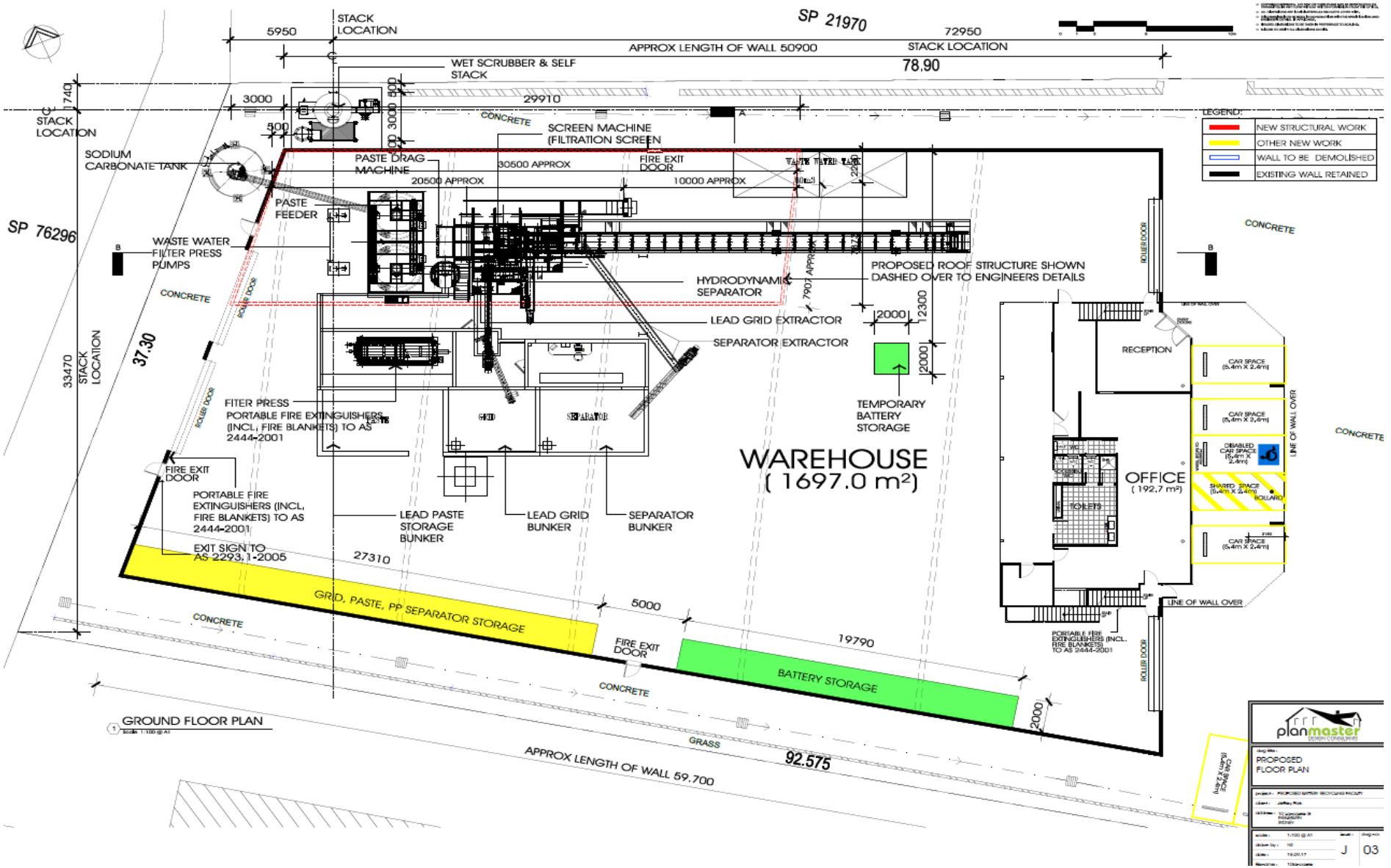
ACCESS TO INFORMATION

C14. Prior to the commencement of construction and for the duration of the Development, the Applicant must:

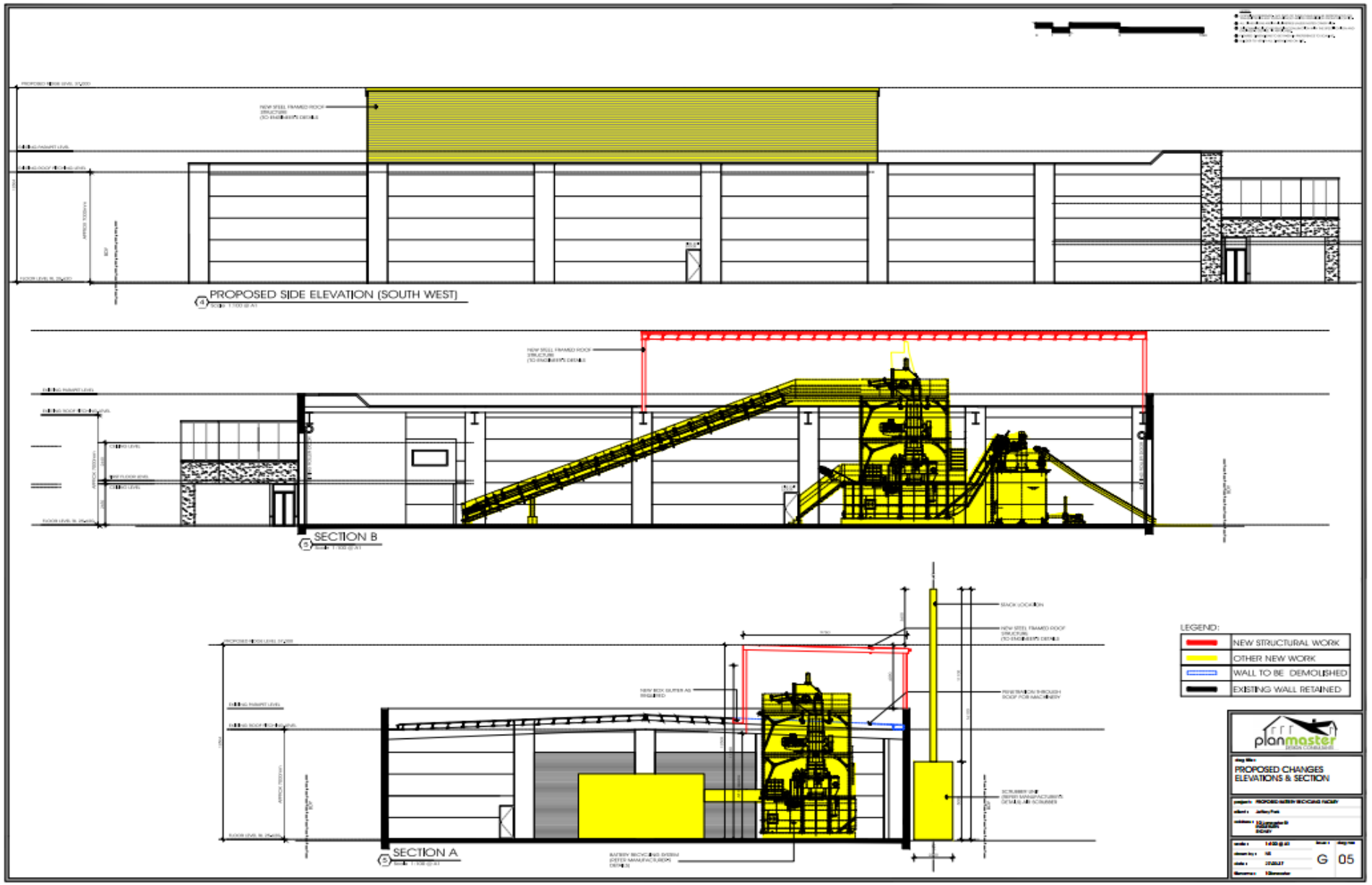
(a) make copies of the following publicly available on its website:
    (i) the documents referred to in Condition A2;
    (ii) all current statutory approvals for the Development;
    (iii) all approved strategies, plans and programs required under the conditions of this consent;
    (iv) a comprehensive summary of the monitoring results of the Development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;
    (v) a complaints register updated on a monthly basis;
    (vi) the annual reviews of the Development;
    (vii) any independent environmental audit of the Development and the Applicant's response to the recommendations in any audit;
    (viii) any other matter required by the Secretary; and
(b) keep this information up to date, to the satisfaction of the Secretary.

APPENDIX A
DEVELOPMENT LAYOUT PLANS


LEGEND:
NEW STRUCTURAL WORK
OTHER NEW WORK
WALL TO BE DEMOLISHED
EXISTING WALL RETAINED
WAREHOUSE
(1697.0 m²)
OFFICE
RECEPTION
WEST SCRUBBER & SELF STACK
SCREEN MACHINE (FILTRATION SCREEN)
PASTE THINNING MACHINE
WASTE WATER FILTER PRESS PUMPS
HYDROCYNAMIC SEPARATOR
LEAD GRID EXTRACTOR
SEPARATOR EXTRACTOR
TEMPORARY BATTERY STORAGE
LEAD PASTE STORAGE BUNKER
LEAD GRID BUNKER
SEPARATOR BUNKER
GRID, PASTE, PP SEPARATOR STORAGE
BATTERY STORAGE
PROPOSED ROOF STRUCTURE SHOWN DASHED OVER TO ENGINEERS DETAILS
EXIT
ENTRY
LANCASTER STREET
SP 21970
SP 76296
LOT 29
DP 262432
APPROX LENGTH OF WALL 99.700
APPROX LENGTH OF WALL 80900
78.90
92.575
PROPOSED SITE PLAN
Scale 1: 200 @ A1
planmaster
PROPOSED SITE PLAN
1:200 @ A1
J
02


SP 21970
SP 76296
STACK LOCATION
APPROX LENGTH OF WALL 50900
WET SCRUBBER & SELF STACK
SCREEN MACHINE (FILTRATION SCREEN
PASTE DRAG MACHINE
SODIUM CARBONATE TANK
PASTE FEEDER
WASTE WATER FILTER PRESS PUMPS
HYDRODYNAMIC SEPARATOR
LEAD GRID EXTRACTOR
SEPARATOR EXTRACTOR
PROPOSED ROOF STRUCTURE SHOWN DASHED OVER TO ENGINEERS DETAILS
TEMPORARY BATTERY STORAGE
FITER PRESS PORTABLE FIRE EXTINGUISHERS (INCL. FIRE BLANKETS) TO AS 2444-2001
FIRE EXIT DOOR
PORTABLE FIRE EXTINGUISHERS (INCL. FIRE BLANKETS) TO AS 2444-2001
EXIT SIGN TO AS 2293.1-2005
LEAD PASTE STORAGE BUNKER
LEAD GRID BUNKER
SEPARATOR BUNKER
WAREHOUSE (1697.0 m²)
OFFICE (192.7 m²)
RECEPTION
TOILETS
CAR SPACE (5.4m X 2.4m)
DISABLED CAR SPACE (5.4m X 2.4m)
SHARED SPACE (5.4m X 2.4m)
BOLLARD
LINE OF WALL OVER
GRID, PASTE, PP SEPARATOR STORAGE
BATTERY STORAGE
CONCRETE
GRASS
ROLLER DOOR
APPROX LENGTH OF WALL 59.700
92.575
GROUND FLOOR PLAN
LEGEND:
NEW STRUCTURAL WORK
OTHER NEW WORK
WALL TO BE DEMOLISHED
EXISTING WALL RETAINED
planmaster
PROPOSED FLOOR PLAN
J
03


LEGEND:
NEW STRUCTURAL WORK
OTHER NEW WORK
WALL TO BE DEMOLISHED
EXISTING WALL RETAINED
PROPOSED FRONT ELEVATION (SOUTH EAST)
PROPOSED SIDE ELEVATION (NORTH EAST)
PROPOSED REAR ELEVATION (NORTH WEST)
planmaster
PROPOSED CHANGES
ELEVATIONS & SECTION
G
04


PROPOSED SIDE ELEVATION (SOUTH WEST)
SECTION B
SECTION A
LEGEND:
NEW STRUCTURAL WORK
OTHER NEW WORK
WALL TO BE DEMOLISHED
EXISTING WALL RETAINED
planmaster
PROPOSED CHANGES
ELEVATIONS & SECTION
G
05

APPENDIX B
APPLICANT'S MANAGEMENT AND MITIGATION MEASURES

Impact	Environmental Safeguard
Hazards and Risk	
General hazard and risk management	▪ Provide roof ventilation in the building given the potential for hydrogen build-up over time and possible explosion. ▪ Provide double-skin underground tanks and pipes to lower the risk of environmental impact from equipment failure, e.g. lead or sulphuric acid leaking into the ground. ▪ Safety showers and eyewashes should be alarmed to expedite emergency response to a person exposed to harmful chemicals. ▪ Comply with the WHS (Work Health and Safety) Regulations 2011, in particular, Part 7.2, for lead control. ▪ The process should be reviewed via the HAZOP technique, in particular, the scrubber system and liquid systems. ▪ Ensure that the building floor integrity is sound, e.g. no cracks, to avoid seepage and environmental impact. The floor surface is to be compatible with sulphuric acid. ▪ Waste liquids need to be contained and analysed for lead prior to disposal. This includes Trade Waste. ▪ Trip the process on scrubber failure. ▪ The emergency response plan is to include actions to a fire event, e.g. stay in-doors or evacuate. ▪ Include in the facility design the need to contain the design quantity of firewater. ▪ Prepare an evacuation plan showing the appropriate routes and muster location. ▪ Provide eyewash units and safety showers as required within the facility. ▪ Dangerous goods are to be stored as per the requirements of the relevant Australian Standards.
Construction hazard and risk management across the proposal	Prepare a hazard and risk management plan (HRMP) as a sub-plan of the CEMP. As a minimum, the plan would: ▪ Include an emergency response plan; ▪ Be prepared by a suitably qualified hazard management specialist; and ▪ Provide for the implementation, monitoring and maintenance of the identified hazard controls.
Accidental spillage and discharge across the proposal	▪ Keep wet and dry spill kit, sand-filled/gravel-filled socks and geotextile matting 'onsite' at all times. ▪ Train staff in the appropriate deployment, use, removal and disposal of spill kit.
Hazardous material and dangerous goods transportation and storage across the site during operation	Handle, store and use dangerous goods and hazardous materials in accordance with: the NSW *Occupational Health and Safety Act 2000*; the Storage and Handling of Dangerous Goods Code of Practice (WorkCover NSW, 2005); NSW Road and Rail Transport (Dangerous Goods) (Road) Regulation 1998; and Australian Government's Code for the Transport of Dangerous Goods by Road and Rail (National Transport Commission, 2008).
Hazardous material and dangerous goods storage during operation	Hazardous materials and dangerous goods will be store within a bunded and secure storage facility on-site.
Human health	
General management	Requirement for PPE including: ▪ Impervious clothing, boots and gloves; ▪ Full face shield or better; and ▪ Long sleeves and pants. Appropriate laundering of clothing to ensure removal of all contaminants.
	If the control measures require personnel intervention (e.g. use of personal protective equipment), they should be instructed and trained in the proper use (and where appropriate limitations) of the control measures and for PPE how to fit, use and remove the equipment safely. It is good practice to make and maintain a record of all training carried out.
	Safety showers and eyewash units are to be installed throughout the facility in the event that a person is exposed to the chemical material. These need to be supplied with room temperature water (avoid running the water supply pipes in the sun). Ideally, they should be alarmed (to expedite emergency response) and have green fluorescent lights above each unit (for ease of identification in the case where a person has chemical material in their eyes).
Sulphuric Acid	Bottom fill the wastewater tank to minimise mist generation.
	Clearly mark work stations where workers may be exposed to sulphuric acid and its mist with warning signs. Specific hygiene measures should be considered, including bans on smoking,

Impact	Environmental Safeguard
	eating and drinking in areas contaminated with chemicals, the proximity of washing and toilet facilities, and the use, storage and maintenance of protective clothing.
	Use a scrubbing unit or mist suppression system for the acid storage tank vent and overflow if these are vented within the building.
	Perform atmospheric testing to confirm low levels of acidic mist within the building.
	Clothing that is splashed with sulphuric acid should either be disposed of as acidic waste or suitably laundered with confirmation that the acid has been successfully removed.
	A health record is recommended to include the dates when the individual's work involved potential sulphuric acid mist exposure.
	Personnel who could be exposed to sulphuric acid mist or liquid should be informed of the hazards from exposure and what measures are taken to control their exposure in the workplace.
Lead and lead compounds	Perform atmospheric testing to confirm low levels of lead within the building and from the scrubber.
	Personnel who could be exposed to lead should be informed of the hazards from exposure and what measures are taken to control their exposure in the workplace.
	If the control measures require personnel intervention (e.g. use of personal protective equipment), they should be instructed and trained in the proper use (and where appropriate limitations) of the control measures and for PPE how to fit, use and remove the equipment safely. It is good practice to make and maintain a record of all training carried out.
	The facility will need to comply with the WHS Regulation 2011, in particular, Part 7.2 (Lead).
	For good practice, it is recommended to avoid horizontal ledges inside the building (as much as possible) on which lead dust can settle and the surfaces should be smooth and impervious to make routine cleaning easy, so far as is reasonably practicable.
	Dust should not be swept up but routinely removed by using a vacuum equipped with a high-efficiency particulate arrester (HEPA) filter or by wet cleaning.
	For the liquid and solid wastes that potentially contain lead, these should be sampled to determine the lead concentrations. This will allow suitable controls to be determined to manage the lead exposure risk.
Sodium Carbonate	Workers should be instructed and trained in the safe use of sodium carbonate, the associated hazards, the required PPE, how to use the PPE, hygiene requirements and emergency response. Training records should be kept by the company
Polymer	Workers should be instructed and trained in the safe use of polymer, the associated hazards, the required PPE, how to use the PPE, hygiene requirements and emergency response. Training records should be kept by the company.
Carbon Dioxide	The company should identify all confined spaces within the facility where carbon dioxide can accumulate. These spaces need to be listed and signed. For any entry into these confined spaces, a confined space risk assessment and permit need to be completed to manage the risks to personnel.
	Workers should be instructed and trained in the safe use of carbon dioxide, the associated hazards, the required PPE, how to use the PPE, hygiene requirements and emergency response. Training records should be kept by the company.
Traffic and parking	
Construction traffic impacts	A construction traffic management plan (CTMP) would be prepared as a sub-plan of the CEMP. As a minimum, the plan would include the following controls: • minimise use of heavy vehicles on local roads • restrict deliveries to outside of peak traffic periods where possible • ensure emergency vehicle access is maintained, including consultation with • emergency services • identify haulage routes and minimise impacts on local routes • provide warning and advisory signage • providing safe access points to work areas from the adjacent road network • safety barriers where necessary • maintaining adequate sight distance • displaying prominent warning signage • covering truck loads • avoiding vehicle idling • deliveries planned to minimise the number of trucks arriving at site at one time. • materials delivered and spoil removed from the site during standard construction hours.

Impact	Environmental Safeguard
	• use of Traffic Controllers to ensure safe vehicle and pedestrian movements for example when trucks enter or leave the site ▪ a Driver Code of Conduct plan ▪ Provide for local community consultation and notification of local road network and traffic impacts.
Temporary construction vehicle movements	Neighbouring businesses would be notified in advance of construction to provide awareness of minor increases in traffic
Noise and vibration	
The potential for exceedance of the NMLs across the proposal footprint	Prepare a construction noise and vibration management plan (CNVMP). It would be a sub-plan of the CEMP. As a minimum, the plan would: • Map the sensitive receiver locations including residential properties • Include safeguards and management measures to manage out of hours working • Include an assessment to determine potential risk for activities likely to affect receivers, including for activities undertaken during and outside of standard working hours • Include a process for assessing the performance of the implemented safeguards and management measures • Specify the equipment restrictions that would be implemented at night if night works required • Describe the respite periods that would be implemented • Specify restrictions on allowing equipment, plant and traffic to idle on site • Specify the avoidance of activities that would generate impulsive noise • Ensure any potentially impacted receivers are informed ahead of any planned works taking place outside of the recommended standard hours for construction works • Ensure noise at sensitive receivers is monitored • Identify how the construction staging and program includes for monitoring at sensitive receivers • Include a specific process for documenting and resolving issues and complaints. *Note: The CNVMP would be routinely updated in response to any changes in noise and vibration. Tool box talks would be used to communicate constructor obligations and responsibilities under the plan.*
Construction noise impacts	Working hours are to be restricted in accordance with the EPA Interim Construction Noise Guideline. Working hours are to be in accordance with: ▪ Between 7.00am and 6.00pm, Monday to Friday. ▪ Between 8.00am and 1.00pm Saturdays. ▪ No work or deliveries on Sunday and/or public holidays. • If work is required to be undertaken outside normal work hours, the Contractor will need approval from the Principal. The Contractor is to provide enough information for the Principal to evaluate any potential noise impact from the proposed works.
Construction noise impacts	Community and business notification would be done prior to works commencing outlining the nature of the works, work hours and contact number. Additional community and business notification would be done at least five days before works outside standard hours that has a potential to cause any noise impact.
Operational noise impacts	Any noise impacts that occur outside of the relevant criteria shall be identified and rectified through retrofitting of the machinery.
Air quality and odour	
Air quality emissions – general management	▪ Reduce drop heights during loading and unloading of batteries ▪ Minimise area of exposed surfaces ▪ Minimise amount of stockpiled materials
Air quality emissions through loading and transport of materials	Waste and material loads leaving the subject site are to be covered at all times.
Scrubber failure	Shut down the battery recycling process.
Transfer of sulfuric acid	A vapour return line is to be connected between the tanker truck and the on-site storage vessel in order to capture any vapours from the tanker truck that are displaced during transfer.
Air quality monitoring	Conduct frequent air quality monitoring to identify fugitive emissions. If detected above the relevant criteria, implement appropriate controls to mitigate impacts of fugitive emissions.
Soil and water	
Sediment-laden run off and associated water	Prepare a Soil and Water Management Plan as part of the CEMP and address the following:

Impact	Environmental Safeguard
quality impacts management	• The NSW Soils and Construction – Managing Urban Stormwater Volume 1 'the Blue Book' (Landcom, 2004) and Volume 2 (DECC, 2008). • Detail the following as a minimum: • Identification of catchment and sub-catchment areas, high risk areas and sensitive areas • Sizing of each of the above areas and catchment • Direction of flow of on-site and off-site water • Separation of on-site and off-site water • The direction of run-off and drainage points during each stage of construction • Include progressive site-specific Erosion and Sedimentation Control Plans (ESCPs). The ESCP is to be updated at least fortnightly • A process to routinely monitor the Bureau of Meteorology weather forecast • Preparation of a wet weather (rain event) plan which includes a process for monitoring potential wet weather and identification of controls to be implemented in the event of wet weather. These controls are to be shown on the ESCPs • Provision of an inspection and maintenance schedule for ongoing maintenance of temporary and permanent erosion and sedimentation controls.
On-site sediment and waste laden run off and associated water quality impacts during construction	▪ Erosion and sediment control measures would be implemented to ensure no sediment leaves the site. ▪ All waste materials (such as demolition materials) would be contained to prevent possible run off prior to removal from the site.
Accidental spillage and associated water quality impacts	Maintain emergency spill kits on-site at all times and make all staff aware of the location of the spill kits and trained in their use.
Fuel storage and refuelling	▪ All fuels, chemicals, and liquids would be in an impervious bunded area within the compound site. ▪ The refuelling of plant and maintenance of machinery would be undertaken in impervious bunded areas within the compound site.
Machinery maintenance checks	Machinery would be checked daily to ensure there is no oil, fuel or other liquids leaking from the machinery.
Erosion risk	▪ Disturbed surfaces would be reinstated as soon as possible. ▪ Erosion and sedimentation control measures would not be removed until disturbed areas have stabilised. ▪ Any damage from construction to the ground surface shall be restored to pre-construction condition on completion of works.
Excavation of soils	• Development of a contaminated soils management plan prior to excavating; • Storage of any excavated material within the warehouse or under a roofed area; • Develop a Trigger Action Response Plan to deal with groundwater (should it be intercepted during excavation) including collection and testing and disposal methods; • Storage of fuels, chemicals and lubricants in a fully bunded area; and • Development of a spill response plan for the construction phase.
Operational Management	• Ongoing monitoring of water use and wastewater production; • Daily inspections of water management infrastructure including drains and bunding; • Bunding of the process line and wastewater tank; • Storage of wastewater in a fully bunded tank; • Unloading and storage of input and output material within the warehouse or in roofed areas; • Storage of chemicals and lubricants in a fully bunded area; • Transfer (loadout) of wastewater in a fully bunded area; • Installation of rainwater tanks to capture roof runoff for reuse; • Transfer of wastewater only within bunded areas; • Possible pH neutralisation of wastewater to reduce potential impact of a spill; and • Development of a spill response plan for the operation.
Greenhouse gases	
Transport during operation	Promote the use of public transport for patrons and staff.
Greenhouse gas emissions during operation	▪ Ensure energy efficient fixtures are used where possible. ▪ Shut down machinery overnight.