

Sydney Metro North West

Design and Construction of Surface
and Viaduct Civil Works



Construction Compound & Ancillary Facilities Management Plan

NWRLSVC-ISJ-SVC-PM-PLN-120211

Revision 13.0

11 September 2017

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Document Revision History

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Revision	Description	Prepared by	Reviewed by	Approved by	Date
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7.0	Error corrected in Construction Site Information	RP/TA	T Austin	Ian Stuart	19-Sep-2015
8.0	Updated in response to TfNSW comments on Rev 7.0	T. Austin		Ian Stuart	22-Oct-2015
9.0	Review in response to	D. Malysiak	T. Austin	I. Stuart	2-Mar-2016

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Portion 1 handover
from TJHD to ISJV

10.0	Addition of Amber Tiles site compound	J. Burgin	B. Tucker	G. Perdikaris	15 Nov 2016
11.0	Minor revisions	J. Burgin	B. Tucker	G. Perdikaris	07 Dec 2016
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13.0	General update	J. Burgin	B. Tucker	G. Perdikaris	11 Sept 2017

Signature

Three handwritten signatures in blue ink are displayed. The first signature is a stylized 'J' followed by a flourish. The second signature is 'B. Tucker'. The third signature is 'G. Perdikaris'.

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1 ACRONYMS & GLOSSARY

Abbreviation	Definition
Ancillary Facility	Temporary facility for construction not identified in the documents listed in condition B1 b) and c) of this approval, including for example an office and amenities compound, construction compound, batch plant (concrete or bitumen), materials storage compound, maintenance workshop, testing laboratory or material stockpile area.
CEMF	Construction Environmental Management Framework (Submissions Report, Section 3)
CEMP	Construction Environmental Management Plan
COA	Conditions of Approval
EIS	Environmental Impact Statement
Emission	A discharge of a substance (e.g. dust) into the environment
EP&A Act	Environmental Planning and Assessment Act 1979
EPA	Environment Protection Authority
EPL	Environment Protection Licence
ER	Independent Environmental Representative
IC	Independent Certifier
Incident	Any unplanned or undesired event which results in or has potential to result in injury, ill health, damage, to or loss of property, interruption to operations or environmental impairment. An incident also includes a near miss, breach of procedure, quality failure, injuries to employees, contractors or members of the public and any other statutorily reportable occurrence.
ISJV	Impregilo S.p.A. (Australia) and Salini (Australia) Joint Venture / Principal Contractor
Mitigation Measures	Measures employed to reduce (mitigate) an impact
NWRL	North West Rail Link
PIRMP	Pollution Incident Response Management Procedure
Pollution	The alteration of air, soil, or water as a result of human activities such that it is less suitable for any purpose for which it could be used in its natural state
REMM	Revised Environmental Mitigation Measures (Submissions Report, Section 7)
RMS	Roads and Maritime Service (formerly RTA)
SSI	State Significant Infrastructure
SVC Works	Surface Viaducts and Civil Works, for the North West Rail Link Project
SWTC	Scope of Work and Technical Criteria
TfNSW	Transport for New South Wales

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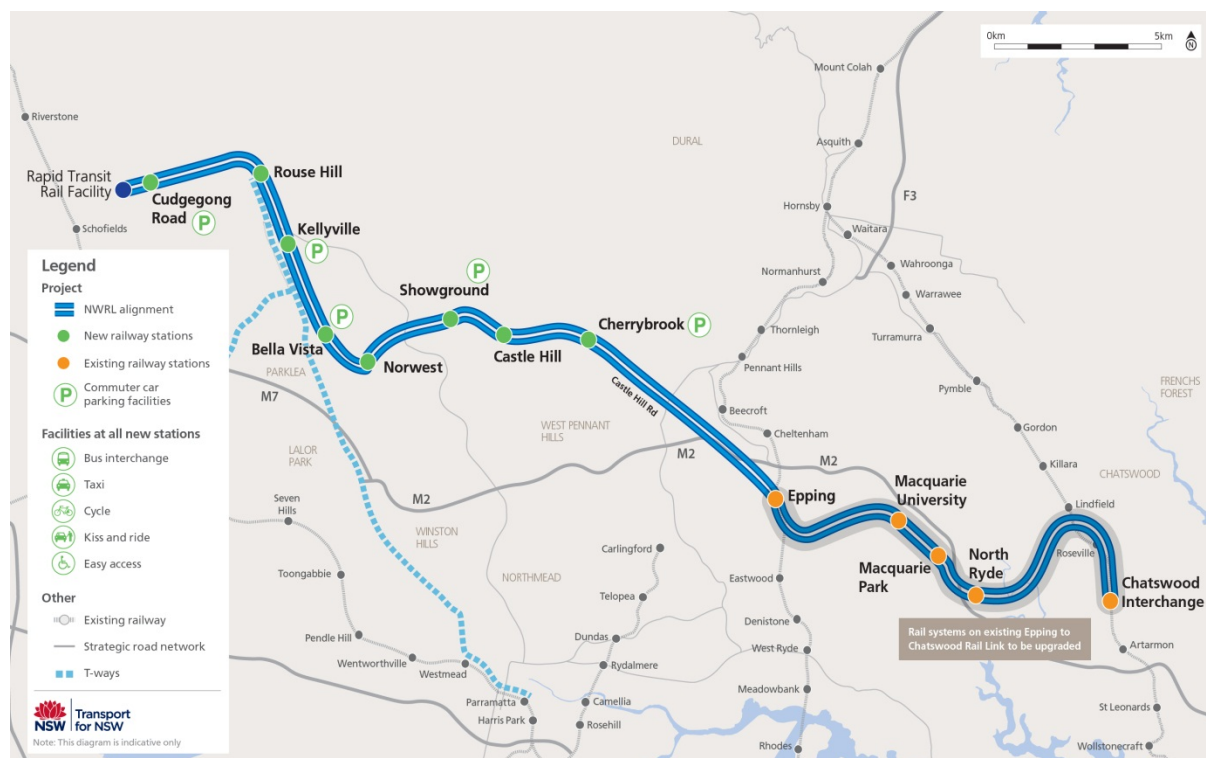
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2 INTRODUCTION

The NWRL project is a key priority for the NSW Government. The NWRL will deliver a new high frequency single deck train system initially operating as a shuttle between Cudgegong Road and Chatswood. The project includes eight new stations, approximately 15.5km of tunnels from Epping to Bella Vista, a 4.5km elevated 'skytrain' (viaduct) between Bella Vista and Rouse Hill, and conversion of the Epping to Chatswood Rail Link to deliver high frequency rapid transit services.

Stations are planned at Cherrybrook, Castle Hill, Showground, Norwest, Bella Vista, Kellyville, Rouse Hill and Cudgegong Road. Bus, pedestrian, cycling and easy access facilities will be provided at all stations, with approximately 4000 'Park and Ride' spaces spread across five sites.

Figure 1 - The North West Rail Link service proposed alignment



The scope of the SVC Project works consists of the detailed design, construction and handover of the viaducts, bridges and associated civil works required for the NWRL between Bella Vista and Cudgegong Road and includes establishment and reinstatement of worksites, spoil removal and disposal and all required utility relocations and adjustments at construction worksites.

The permanent infrastructure to be delivered includes:

- Approximately 4.5 km of viaduct between Balmoral Road and Rouse Hill Station including crossings over Memorial Avenue, Samantha Riley Drive, Windsor Road, Sanctuary Drive and White Hart Drive
- Bulk earthworks requirements including all cut, fill and embankments between Balmoral Road and Cudgegong Road A bridge over
- Balmoral road

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- Balmoral Road realignment
- A bridge over Windsor Road / Rouse Hill
- A bridge over Second Ponds Creek
- Allowance for station structures to be incorporated onto the viaduct at the Kellyville and Rouse Hill station sites
- Adjustments to existing infrastructure and roads within the construction site and / or otherwise affected by ISJV activities
- Safe, secure personnel access / egress into site areas including necessary temporary support services and site facilities, with hoardings, fencing and so on around worksites to be left in place upon completion
- Construction traffic and transport management including temporary and permanent traffic management works
- Removal of all temporary work and site facilities not otherwise required for handover to subsequent contractors.

Activities associated with the temporary and SVC Contractor works required in order to complete construction include:

- Construction of temporary T-way car parking at Rouse Hill and Kellyville
- Construction, removal and transportation of the gantry along the SVC construction zone
- Temporary changes to site personnel access/egress
- Signage, fencing and hoarding
- Construction environmental management activities
- Construction traffic management activities
- Interface and communications within SVC Contractor team and across NWRL team
- Stakeholder liaison activities
- Adherence to NWRL protocols and procedures.

2.1 Plan Preparation and Review

The Construction Compound & Ancillary Facility Management Plan (CCAFMP) provides details of how construction compounds and ancillary facilities will be managed by the ISJV in line with the Impregilo Business Management System, relevant Australian Standards, industry & manufacturer's guidelines, specifications and the Design and Construction of Stations and Viaducts Civil Works Project Deed requirements.

This CCAFMP implementation will ensure that environmental process and activities are managed efficiently to consistently satisfy the Design and Construction of the SVC Deed requirements.

The CCAFMP will be available to all the ISJV employees, suppliers, client including their representatives, Independent Certifier and other stakeholders. All employees and suppliers are required to comply with the PQP (Project Quality Plan) as well as ISJV management system requirements and adhere to their nominated authorities and responsibilities.

Ongoing review and updating of the CCAFMP will be undertaken, as outlined in the CEMP. Revisions will be made as required to reflect the current status of the workplace. All revisions including amendments of this plan will be authorised by the Project Director and the Environment Manager prior to their issue.

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2.2 Relationship to Other Plans

The position of the CCAFMP to other plans within the ISJV Management System and overarching documentation framework is shown in Figure 2

The CCAFMP interfaces with the Environmental Construction Management Plan (CEMP) and sub-plans. The relationship of this plan to the other environmental plans is indicated in Figure 3 and the relationship of this plan with the CEMP can be found in Figure 4.

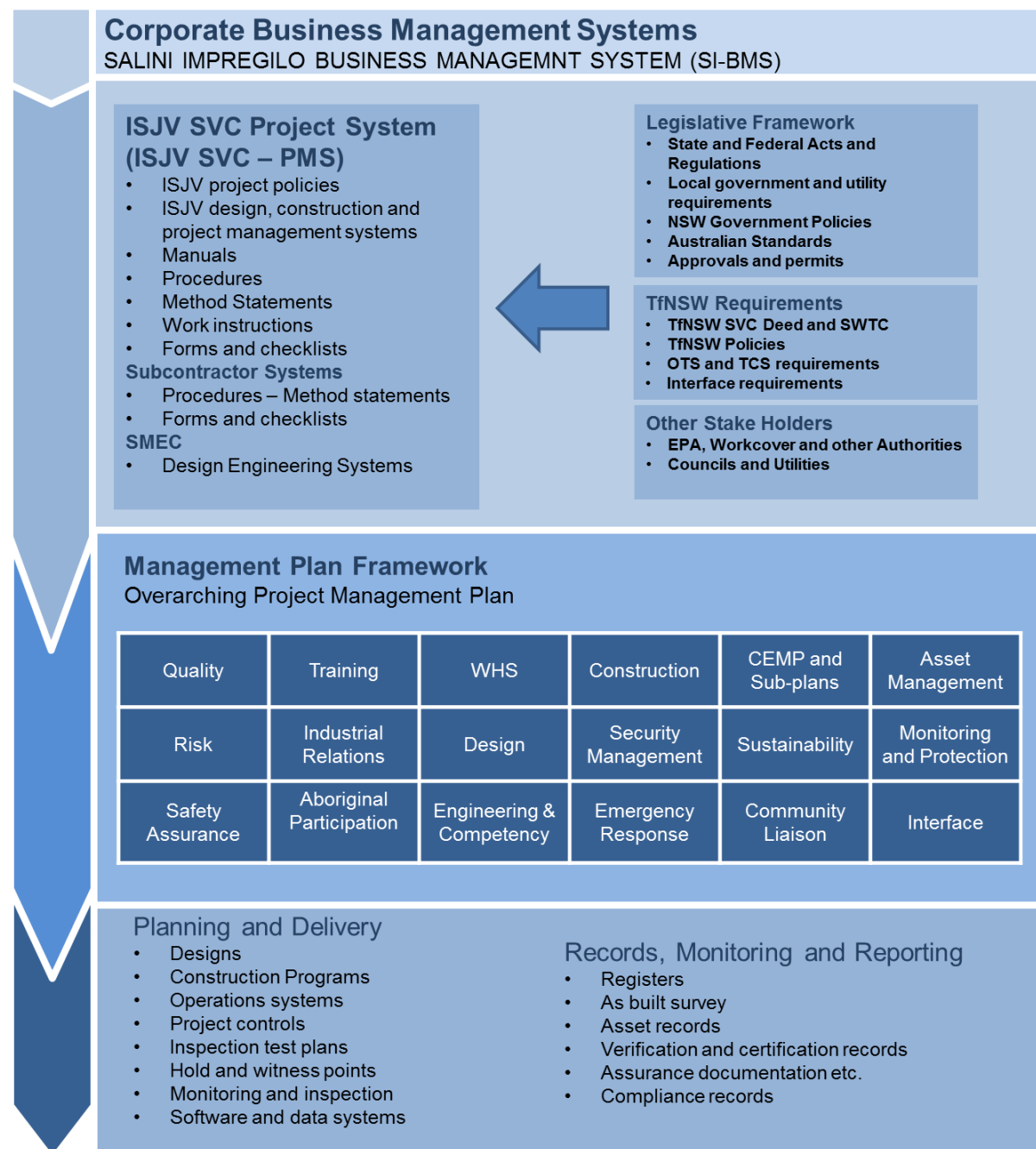


Figure 2 - ISJV SVC Management Systems and Document Framework

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Project Management Plan			
Risk Management Plan	Design Plan	Construction Plan	Construction Environmental Management Plan
Technical Risk Management Plan	Engineering and Competency Management Plan	Waste Management and Recycling Plan	inputs to Compliance Tracking Procedure
Safety Assurance Plan	Engineering Management Plan	Earthworks Plan	Construction Compound Ancillary Facilities Management Plan
Assurance Documentation Management Plan	Requirements Management Plan	Spoil Management Plan	Construction Noise and Vibration Management Plan
Project Quality Plan	Competency Management Plan	Visual Amenity Management Plan	Construction Traffic Management Plan Including
Project Records Management Plan	Urban Design & Corridor Landscape Plan	Security Management Plan	Construction Soil and Water Management Plan
Project Purchasing Management Plan	Stormwater and Flooding Management Plan	Monitoring and Protection Plan	Soil Salinity Management Plan
Project Training Management Plan	Services Management Plan	Pollution Incident Response Management Plan	Water Quality Monitoring Program
Workplace Relations Management Plan		Site Specific Emergency Response Plan	Construction Heritage Management Plan
Project Aboriginal Participation Plan		Community Liaison Implementation Plan	Construction Flora and Fauna Management Plan
Project WHS Management Plan		Stakeholder and Community Involvement Plan	Nest Box Management Plan
Site Specific WHS Management Plan		Business Management Plan	Ecological Monitoring Program
Project WHS Development Plan	Sustainability Plan		Construction Air Quality Plan
	Carbon and Energy Management Plan		
	Asset Management Information Delivery Plan		
	Technical Maintenance Plan	Technical Data Management Plan	
	Interface Management Plan		

KEY:

Plan	Sub Plan	This Plan
TfNSW Plan	Sub - Sub Plan	

Figure 3 - Location of the Construction Compound and Ancillary Facility Management Plan within the Project Management Plan

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Figure 4 - Environment Document Structure

CEMP	CEMP interface plans
Construction Environmental Management Plan	Project Management Plan
	Design Plan
	Construction Plan
	Risk Management Plan
	Quality Plan
	Project Training Management Plan
	Community Liaison Implementation Plan
	Earthworks Plan
	Site Specific Emergency Response Plan
	Interface Plan
	Sustainability Plan
	Training Plan
	inputs to Compliance Tracking Procedure
Environmental Management Plans	Attachments
Construction Noise and Vibration Management Plan	
Construction Soil and Water Management Plan	Soil Salinity Report
	Water Quality Monitoring Program
Construction Heritage Management Plan	
Construction Flora and Fauna Management Plan	Nest Box Management Plan
	Ecological Monitoring Program
Construction Air Quality Plan	
Construction Compound Ancillary Facilities Management Plan	
Construction Traffic Management Plan Including	
Pollution Incident Response Management Plan	
Monitoring and Protection Plan	
Sustainability Plan	Carbon and Energy Management Plan
	Spoil Management Plan
	Waste Management and Recycling Plan
Visual Amenity Management Plan	
Stormwater and Flooding Management Plan	

KEY:

CEMP	Plan Interface
EMP	Interface with TfNSW Plan
Attachment	

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3 GOALS, OUTCOMES, KEY ISSUES

Scope	<p>This Construction Compound and Ancillary Facility Management Plan have been prepared to manage potential impacts at construction compounds and ancillary facilities during construction of the Surface Viaducts and Civil (SVC) Works component of the Sydney Metro Northwest. The scope of this Plan includes ancillary facilities along the 7.5km above ground section of the route from Bella Vista to Rouse Hill, which is a combination of viaduct, embankment, at grade and cutting.</p> <p>This plan does not apply to off-site spoil receipt locations and facilities, as these were not assessed in relation to the planning approvals. Spoil management at these locations will be undertaken in accordance with separate approvals/licences applying to these locations.</p> <p>This plan is based on identified environmental aspects and impacts from each of the SVC construction sites, and identified guidelines and standards to be achieved.</p> <p>This plan forms part of the Impregilo S.p.A. (Australia) and Salini (Australia) Joint Venture (ISJV) Business Management System and should be read in conjunction with plans shown in Figure 3. It is also a sub-plan within the environmental management documentation for the project as shown in Figure 4.</p>
Goals	<ul style="list-style-type: none">• Ensure that construction sites are managed according to statutory requirements; and• Define a process for evaluating any ancillary sites or facilities required during construction.
Intended Outcomes	<ul style="list-style-type: none">• Construction sites and any ancillary facilities managed to avoid environmental impacts.
Key Issues and Sensitive Areas	<p>Ancillary facilities</p> <p>Ancillary facilities are defined in the project approvals as temporary facilities for construction not identified in the EISs or Submissions Reports. This includes facilities such as office and amenities compounds, construction compounds, batch plants, material storage compounds, maintenance workshops, testing laboratories or material stockpile areas.</p> <p>If ancillary facilities are identified as being required during construction:</p> <ol style="list-style-type: none">1. these will be assessed against the criteria established in <i>EIS 1: Major Civil Construction Works – North West Rail Link (SSI-5100)</i>, CoA E42. These criteria are included in the Ancillary Facility Checklist in Appendix 1 of This Plan, and when completed for a site, will

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- be added to Appendix 3; and
- 2. an Environmental Control Map (ECM) appropriate to the proposed use and sensitivity of the site will be developed (see below for discussion of ECMs).

If a proposed ancillary facility does not comply with the ancillary facility checklist, approval is required from the Director General.

To date only the Terry Road Site has been identified as an ancillary facility as:

- Part of the Site falls outside the EIS boundary; and
- The use of the Site for the proposed activities was not specifically identified in the EIS.

An Environmental Control Map (ECM) would typically include a description of activities and equipment, a site layout map, a Sensitive Area Map (SAM) showing sensitive receivers and no-go zones, erosion and sedimentation control plans, and environmental site controls in accordance with the CEMP and sub-plans and the environmental practices and procedures that are to be followed on the site.

The ISJV Environment Manager would approve each ECM, and for ancillary facilities, provide to the Environmental Representative for endorsement.

The ECMs will be displayed in prominent locations, where possible, at each site compound or ancillary site (offices, meal rooms etc) to ensure site staff are aware of the environmental controls in place on the site and the practices and procedures that apply on the site.

ECMs have been developed for a number of compound sites already identified in the EIS. For an example of an ECM refer to Appendix 11 of the CEMP (NWRLSVC-ISJ-SVC-PM-PLN-120200).

Construction sites

A number of construction sites are required for the SVC works, which were identified in the EISs and Submissions Reports. These sites have been updated and are listed and evaluated in Appendix 2. Typical facilities at construction sites include:

- Site offices and construction staff car parking;
- Construction compounds, comprising storage areas, workshops and worker amenities;
- Internal haul roads; and

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	<ul style="list-style-type: none"> Spoil storage and handling areas. <p>These construction sites are subject to measures listed in relevant management plans, as listed below. An Environmental Control Map (ECM) appropriate to the proposed use and sensitivity of the site have been developed and continue to be developed as construction progresses</p>
Statutory Requirements	<p><i>Protection of the Environment Operations Act 1997 (NSW)</i></p> <ul style="list-style-type: none"> Section 120 of the Act provides that it is illegal to pollute or cause or permit pollution of waters. Under the Act, 'Water Pollution' includes introducing litter, sediment, oil, grease, wash water and debris into waters or placing such material where it is likely to be washed or blown into waters or the stormwater system or percolate into groundwater. <p><i>NSW Environment Planning and Assessment Act, 1979 (EP&A Act).</i></p>
Relationship to Other Plans	<ul style="list-style-type: none"> Construction Soil & Water Management Plan. Construction Noise & Vibration Management Plan. Construction Heritage Management Plan. Construction Air Quality Management Plan. Construction Traffic Management Plan. Construction Flora & Fauna Management Plan. Visual Amenity Management Plan. Stormwater and Flooding Management Plan. Spoil Management Plan. <p>All environment-related plans are shown in Figure 3 below.</p>
Environmental Aspects & Impacts	Refer to environmental aspects and impacts identified in CEMP Appendix 5.
Licence & Permit Requirements	The requirements of an EPL for SVC works is included in Section 7 of this plan. These requirements will be updated with each relevant licence variation issued by EPA.

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4 COA REQUIREMENTS

4.1 Major Civil Construction Works – North West Rail Link (SSI-5100)

No.	Ref.	Relevant Requirement	Reference
1.	B8	This approval does not apply to the operation of off-site spoil receipt locations and facilities. The receipt of spoil at these locations shall be undertaken in accordance with approvals/or licences applying to these locations or facilities.	Section 3 - scope
2.	E42	<p>Unless otherwise approved by the Director General, the location of Ancillary Facilities shall:</p> <ul style="list-style-type: none"> (a) be located more than 50 metres from a waterway; (b) be located within or adjacent to land where the SSI is being carried out; (c) have ready access to the road network; (d) be located to minimise the need for heavy vehicles to travel through residential areas; (e) be sited on relatively level land; (f) be separated from nearest residences by at least 200 metres (or at least 300 metres for a temporary batching plant); (g) not require vegetation clearing beyond that already required by the SSI; (h) not impact on heritage items (including areas of archaeological sensitivity) beyond those already impacted by the SSI; (i) not unreasonably affect the land use of adjacent properties; (j) be above the 20 ARI flood level unless a contingency plan to manage flooding is prepared and implemented; and (k) provide sufficient area for the storage of raw materials to minimise, to the greatest extent practical, the number of deliveries required outside standard construction hours. <p>The location of the ancillary facilities shall be identified in the Construction Environmental Management Plan (condition E46) and include consideration of the above criteria. Where the above criteria cannot be met for any proposed ancillary facility, the Proponent shall demonstrate to the satisfaction of the Director General that there will be no significant adverse impact from that facility's construction or operation. Such assessment(s) can be submitted separately or as part of the Construction Environmental Management Plan.</p>	<p>Section 8, SW1 & SW2</p> <p>Appendix 1</p>
3.	E43	All Ancillary Facilities shall be rehabilitated to at least their pre-construction condition, unless otherwise agreed by the landowner where relevant.	Section 8, SW6 & SW7
4.	E45	<p>Prior to commencement of construction, or as otherwise agreed by the Director General, the Proponent shall prepare and implement a Construction Environmental Management Plan for the SSI. The Plan shall outline the environmental management practices and procedures that are to be followed during construction, and shall be prepared in consultation with the relevant government agencies and in accordance with the Guideline for the Preparation of EMPs (DIPNR, 2004). The Plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (e) details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts (including any impacts arising from the staging of the 	This plan

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No.	Ref.	Relevant Requirement	Reference
		construction of the SSI). In particular, the following environmental performance issues shall be addressed in the Plan: (i) Ancillary Facilities management;	
5.	E46(a)	A Construction Compound and Ancillary Facilities Management Plan to detail the management of Ancillary Facilities associated with the SSI. The Plan shall include but not be limited to:	This Plan
		i) a description of the facility, its components and the surrounding environment;	Appendix 1 and Environmental Control Maps. Appendix 4 Ancillary Facility Activities
		ii) details of activities to be carried out at each facility, including hours of use and the storage of dangerous and hazardous goods;	Environmental Control Maps. Appendix 4 Ancillary Facility Activities
		iii) an assessment against the locational criteria outlined in condition E42;	Appendix 1
		iv) details of the mitigation and management procedures specific to the facility that would be implemented to minimise environmental and amenity impacts and an assessment of the adequacy of the mitigation or offsetting measures;	Environmental Control Maps.
		v) identification of the timing for the completion of activities at the facility and how the site will be decommissioned (including any necessary rehabilitation); and	SW7 for Rehabilitation. Decommissioning details cannot be anticipated at this time.
		vi) mechanisms for the monitoring, review and amendment of this Plan.	Section 11

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No.	Ref.	Relevant Requirement	Reference
6.	E46(b)(ii)	Details of construction activities and an indicative schedule for construction works, including the identification of key noise and/or vibration generating construction activities (based on representative construction scenarios, including at ancillary facilities) that have the potential to generate noise and/or vibration impacts on surrounding sensitive receivers, particularly residential areas;	CEMP; & Construction Noise & Vibration Management Plan

4.2 Stations, Rail Infrastructure and Systems – North West Rail Link (SSI-5414)

No.	Ref.	Relevant Requirement	Reference
7.	B7	This approval does not permit the construction of any buildings or the undertaking of uses that do not form part of the operation or are not ancillary to the SSI.	Section 4
8.	E30	Unless otherwise approved by the Director General, the location of Ancillary Facilities shall: <ul style="list-style-type: none"> (a) be located more than 50 metres from a waterway; (b) be located within or adjacent to land where the SSI is being carried out; (c) have ready access to the road network; (d) be located to minimise the need for heavy vehicles to travel through residential areas; (e) be sited on relatively level land; (f) be separated from nearest residences by at least 200 metres (or at least 300 metres for a temporary batching plant); (g) not require vegetation clearing beyond that already required by the SSI; (h) not impact on heritage items (including areas of archaeological sensitivity) beyond those already impacted by the SSI; (i) not unreasonably affect the land use of adjacent properties; (j) be above the 20 ARI flood level unless a contingency plan to manage flooding is prepared and implemented; and 	Section 8, SW1 & SW2 Appendix 1

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No.	Ref.	Relevant Requirement	Reference
		<p>(k) provide sufficient area for the storage of raw materials to minimise, to the greatest extent practical, the number of deliveries required outside standard construction hours.</p> <p>The location of the ancillary facilities shall be identified in the Construction Environmental Management Plan (E34) and include consideration of the above criteria. Where the above criteria cannot be met for any proposed ancillary facility, the Proponent shall demonstrate to the satisfaction of the Director General that there will be no significant adverse impact from that facility's construction or operation. Such assessment(s) can be submitted separately or as part of the Construction Environmental Management Plan.</p>	
9.	E31	All Ancillary Facilities shall be rehabilitated to at least their pre-construction condition, unless otherwise agreed by the landowner where relevant.	Section 8, SW6 & SW7
10.	E33	<p>Prior to the commencement of construction, or as otherwise agreed by the Director General, the Proponent shall prepare and implement (following approval) a Construction Environmental Management Plan for the SSI. The Plan shall outline the environmental management practices and procedures that are to be followed during construction, and shall be prepared in consultation with the relevant government agencies and in accordance with the Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004). The Plan shall include, but not necessarily be limited to:</p> <p>(e) details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts (including any impacts arising from the staging of the construction of the SSI). In particular, the following environmental performance issues shall be addressed in the Plan:</p> <p>(i) ancillary facilities management;</p>	This plan.
11.	E34(a)	A Construction Compound and Ancillary Facilities Management Plan to detail the management of Ancillary Facilities associated with the SSI. The Plan shall include but not be limited to:	This plan
		(i) a description of the facility, its components and the surrounding environment;	<p>Appendix 1 and Environmental Control Maps.</p> <p>Appendix 4 Ancillary</p>

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No.	Ref.	Relevant Requirement	Reference
			Facility Activities
		(ii) details of activities to be carried out at each facility, including the hours of use and the storage of dangerous and hazardous goods;	Appendix 1 and Environmental Control Maps. Appendix 4 Ancillary Facility Activities
		(iii) an assessment against the locational criteria outlined in condition E42;	Appendix 1
		(iv) details of the mitigation and management procedures specific to the facility that would be implemented to minimise environmental and amenity impacts and an assessment of the adequacy of the mitigation or offsetting measures;	Environmental Control Maps.
		(v) identification of the timing for the completion of activities at the facility and how the site will be decommissioned (including any necessary rehabilitation); and	SW7 for Rehabilitation. Decommissioning details cannot be anticipated at this time.
		(vi) mechanisms for the monitoring, review and amendment of this Plan.	Section 11
12.	E34(b)(ii)	Details of construction activities and an indicative schedule for construction works, including the identification of key noise and/or vibration generating construction activities (based on representative construction scenarios, including at ancillary facilities) that have the potential to generate noise and/or vibration impacts on surrounding sensitive receivers, particularly residential areas;	Construction Noise & Vibration Management Plan

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5 REVISED ENVIRONMENTAL MITIGATION MEASURES

5.1 Stage 1 Submissions Report (SSI-5100)

No.	Original Ref.	Relevant Requirement	Reference
13.		N/A	

5.2 Stage 2 Submissions Report (SSI-5414)

No.	Original Ref.	Relevant Requirement	Reference
14.		N/A	

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6 DEED REQUIREMENTS

6.1 Deed Requirements

No.	Original Ref.	Relevant Requirement	Reference
15.	3.5	<p>The SVC Contractor must, as a condition precedent to Construction Completion of any Portion where the SVC Contractor has occupied or made use of a Temporary Area in connection with that Portion, reinstate the Temporary Area to a condition at least equivalent to the condition existing before that occupation or use except for such parts of the Temporary Area:</p> <p>(a) that are required by this deed (including the SWTC) to contain any Handover Works; or</p> <p>(b) which this deed (including the SWTC) specifies need not be reinstated (including where the SVC Contractor is required to demolish buildings on the Temporary Area).</p>	<p>Section 8</p> <p>UDCLP</p>
16.	7.12	<p>Without limiting clause 7.3, in carrying out the SVC Contractor's Activities, the SVC Contractor must:</p> <p>(a) keep the Construction Site, Extra Land and the Project Works clean and tidy and free of refuse;</p> <p>(b) regularly remove rubbish, litter, graffiti and surplus material (including Materials) from the Construction Site and Extra Land; and</p> <p>(c) as a condition precedent to Construction Completion of a Portion, remove all rubbish, surplus materials (including Materials), Construction Plant and Temporary Works (other than the Handover Works) from the relevant parts of the Construction Site and Extra Land relevant to that Portion except where the retention of any of these are required for the correction of Defects during the Defects Correction Period and this is approved in writing by the Principal's Representative.</p>	<p>Section 8, SW11 & SW8</p> <p>ECMs</p>

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6.2 SWTC Requirements

No.	Original Ref.	Relevant Requirement	Reference
17.	7.13 (a)	Without limiting the requirements of the deed, the SVC Contractor must comply with the requirements in the Environmental Documents and ensure that significant trees (based on species, age or size) which may be affected by the SVC Contractor's Activities are identified and appropriate protection management measures implemented including fencing and pruning.	Construction Flora and Fauna Management Plan, (Procedures, Mitigation Measures and ECMs.)
18.	7.13(b)	The SVC Contractor must reinstate the Project Site progressively as each part of the Project Works and Temporary Works is completed. All such reinstatement work must be completed as a condition precedent to Construction Completion of each Portion.	Section 8, SW7 Rehabilitation Site Plans
19.	7.13(c)	All land outside the Project Site (including the Temporary Areas and Extra Land) which has been in any way affected by SVC Contractor's Activities must be reinstated to a condition at least equivalent to that existing before that occupation or use except for the parts of the Temporary Areas: (i) that contain the Handover Works; or (ii) where the SVC Contractor has been required to demolish infrastructure and buildings.	Section 8, SW8 UDCLP
20.	App 10, 10.14	a) The SVC Contractor must ensure that any temporary site facilities provided by the SVC Contractor, including the temporary site facilities provided for the principle and Independent Certifier, incorporate where reasonable and feasible: i) Energy efficient lighting schemes, light fittings and electrical appliances; ii) High performance thermal insulation in all walls, ceilings and floors that optimize thermal performance; iii) Natural daylighting; iv) Natural ventilation; v) Rainwater harvesting;	Section 8, SW12 (i) to (viii) Sustainability Plan, section 6 (ix) & (b) Amenity Management Plan,

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		vi) Water efficient fixtures, fittings and controls; vii) Air conditioning refrigerants with low or zero global warming potential; viii) Bicycle storage facilities, showers and changing room facilities; and ix) Crime Prevention Through Environmental Design (CPTED) principles. b) Any security and warning lighting used by the SVC Contractor must be installed so that light is not directed at neighbouring properties or in such a way that light reflects onto structures or neighbouring properties.	section 7 HR13
21.	App 24.4, (g)(i)	The Construction Environmental Management Plan must include, as sub-plans, the following plans that are required by the Project Planning Approvals: <ul style="list-style-type: none"> Construction Compound and Ancillary Facilities Management Plan; 	This plan.

6.3 CEMF Requirements

No.	Original Ref.	Relevant Requirement	Reference
22.	3.5	A number of works may require additional environmental assessment to be undertaken, e.g. the provision of high voltage power supply to a number of the construction sites. a. Where the requirement for an additional environmental assessment is identified, this will be undertaken prior to undertaking any physical works. The environmental assessment will include: <ul style="list-style-type: none"> (i) A description of the existing surrounding environment. (ii) Details of the ancillary works and construction activities required to be carried out including the hours of works. (iii) An assessment of the environmental impacts of the works, including, but not necessarily limited to, traffic, noise and vibration, air quality, soil and water, ecology and heritage. (iv) Details of mitigation measures and monitoring specific to the works that would be implemented to minimise environmental impacts. (v) Identification of the timing for completion of the construction works, and how the sites would be reinstated (including any necessary rehabilitation). 	Section 8, Appendix 1 and Environmental Control Maps. Environmental Consistency Assessment (v) Rehabilitation Plans
23.	5.2(a)	NWRL Principal Contractor will consider the following in the layout of construction sites: <ul style="list-style-type: none"> i. The location of noise intensive works and 24 hour activities in relation to noise sensitive receivers. ii. The location of site access and egress points in relation to noise and light sensitive receivers, especially for sites proposed to be utilised 24 hours per day. iii. The use of site buildings to shield noisy activities from receivers. iv. The use of noise barriers and/or acoustic sheds where feasible and reasonable for sites proposed to be regularly used outside of daytime hours. v. Aim to minimise the requirement for reversing, especially of heavy vehicles. 	Section 8 Appendix 1 Construction Noise & Vibration Management Plan

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7 LICENCE AND PERMIT REQUIREMENTS

7.1 EPA Licence number 20454

No.	Original Ref.	Relevant Requirement	Reference
24.	A2	Premises or plant to which this licence applies.	SW13
25.	-	Conditions specific to environmental impacts (e.g air, noise and vibration, water) can be found in each of the other sub-plans.	CEMP sub-plans

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8 MITIGATION MEASURES

ISJV Ref.	Mitigation Measure	Design	Construction	Relevant Location / Activity	Relevant Approval Conditions	Responsibility	Timing
SW1.	<p>For any ancillary facilities not described in the EIS or Submissions Reports that are identified as being required, an assessment, including the following, will be prepared:</p> <ul style="list-style-type: none"> • Description of the existing surrounding environment. • Details of the ancillary facility and construction activity planned. • Assessment against COA criteria in Appendix 1 of this plan. • Proposed hours of work. • Assessment of environmental impacts, including traffic, noise and vibration, air quality, soil and water, ecology and heritage. • Mitigation measures and monitoring specific to the facility that would be implemented to minimise environmental impacts. • Timing for completion of use of the facility. • Details of site rehabilitation, or handover to TfNSW for operational works. <p>Where the assessment indicates that the criteria in Appendix 1 cannot be met, the assessment will be submitted to the Director General for approval prior to use of the site.</p>	■	■	Any identified ancillary sites	COA SSI-5100 E42 COA SSI-5414 E30 CEMF Section 3.5	Environment Manager	Prior to construction at identified ancillary sites
SW2.	ECMs to be prepared for construction sites and any ancillary sites. ECMs will be updated as required.	■	■	Construction sites and any ancillary sites	Best practice	Environment Manager	Prior and throughout construction
SW3.	Develop Progressive Erosions and Sediment Control Plans (ESCPs) for construction sites and any ancillary sites prior to any substantial works in the area which they cover, identifying the specific controls to be installed.	■	■	Construction sites and any ancillary sites	COA SSI-5100 E33, E46d(iv), COA SSI-5414 E27,	Environment Coordinator, Soil Specialist	Prior to work activities, throughout

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ISJV Ref.	Mitigation Measure	Design	Construction	Relevant Location / Activity	Relevant Approval Conditions	Responsibility	Timing
					E34d(iv) CEMF 15.2(b)		construction
SW4.	Revegetate with cover crop or other dust sealant temporary soil stockpiles, or unused disturbed areas, which will be on site for more than one month.		■	Construction sites and ancillary sites	REMM SSI-5414 SW27	Site Engineer, Environment Coordinator	Throughout construction
SW5.	Progressively revegetate, stabilise or seal disturbed areas when works in the area are complete to reduce dust emissions and the total erodible surface.		■	Construction sites and ancillary sites	REMM SSI-5414 SW27	Site Engineer, Environment Coordinator	Throughout construction
SW6.	Undertake surveys recording pre-construction condition of ancillary facilities proposed for use.		■	Ancillary sites	COA SSI-5100 E43 SWTC 7.13(b)	Construction Manager	Throughout construction
SW7.	Progressively rehabilitate ancillary facilities to at least their pre-construction condition, prior to completion of each Project Works and Temporary Works, unless otherwise agreed by the landowner where relevant or if the area is required to be handed over for operational works. Rehabilitation Site Plan will be in accordance with <i>the Project Conditions of Approval</i> .		■	Ancillary sites	COA SSI-5100 E43 (a) (v) COA SSI-5414 E46 (a) (v) CEMF, 3.5 (v) SWTC 7.13(b)	Construction Manager	Throughout construction
SW8.	Reinstate all land outside the Project Site (including the Temporary Areas and Extra Land) which has been in any way affected by SVC Contractor's Activities to a condition at least equivalent to that existing before that occupation or use except for the parts of the Temporary Areas: (i) that contain the Handover Works; or (ii) where the SVC Contractor has been required to demolish		■	Ancillary sites	SWTC 7.13(c) Project Deed 3.5	Construction Manager	Post construction

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ISJV Ref.	Mitigation Measure	Design	Construction	Relevant Location / Activity	Relevant Approval Conditions	Responsibility	Timing
	infrastructure and buildings.						
SW9.	Position noise intensive works, and 24 hour activities (including site access and egress points), at any ancillary facilities away from noise sensitive receivers. Include details in ECMs	■	■	Any identified ancillary sites	CEMF 5.2(a)	Environment Manager	Throughout construction
SW10	Recycle and reuse collected stormwater and waste concrete water on-site where practicable	■	■	Construction compounds, , sediment basins	COA SSI-5100 E34, COA SSI-5414 E28	Construction Manager	Throughout construction
SW11	Clean up rubbish, litter, graffiti and surplus material from construction sites on a regular basis.		■	Construction sites and ancillary sites	Project Deed 7.12	Construction Manager	Throughout construction
SW12	Temporary site facilities will include the listed energy and water efficient measures, where reasonable and feasible, in the procurement of site buildings. Any security and warning lighting used for these facilities must be installed so that light is not directed at neighbouring properties or in such a way that light reflects onto structures or neighbouring properties.	■		Temporary site facilities	App 10, 10.14	Procurement Manager	Pre-construction
SW13	For any ancillary facilities not described in the EIS or Submissions Reports that are identified as being required, the premise maps for the Environment Protection Licence (EPL) 20454 need to be updated, and approved by EPA, in accordance with condition A2 of the EPL, before works can commence.	■		Any identified ancillary sites	EPL No. 20454, condition A2	Environment Manager	Pre-construction

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9 MONITORING

Item	Frequency	Standards	Reporting	Responsibility
Monitoring will be undertaken in accordance with Section 6 of the CEMP	See CEMP	See CEMP	See CEMP	See CEMP
Monitoring will be undertaken as identified in site specific ECMs, or ancillary facility approvals.	See site specific ECM or ancillary facility approval	See site specific ECM or ancillary facility approval	See site specific ECM or ancillary facility approval	See site specific ECM or ancillary facility approval

10 TRAINING AND RESOURCES

Training

All staff and contractors working at any site compounds and ancillary facilities will be required to undertake an induction before being allowed onto site. Inductions are to be conducted and address issues as outlined in section 5.8.1 of the CEMP.

Site Inductions are recorded in the Projects' on-line system (Damstra), checked with MSF15-7 *Induction Assessment Form* and maintained in Damstra. The MSF15-6 *Site Induction Form* and MSR15-3 *Site Induction Register* have been superseded by Damstra even though much of the information requirements from these documents have been retained in Damstra. Requirements specific to ancillary facilities for each work area will also be raised each work day as part of the daily prestart assessment procedure and be recorded on a SEA Card (MSF22-6).

Toolbox talks to be conducted where deemed necessary or every fortnight at a minimum and will cover the following:

- Environment Control Maps;
- Erosion and sediment control maintenance;
- Sensitive areas;
- Road cleanliness with regard to trucks leaving the site; and
- Contents and use of spill kits.

Resources

- Temporary erosion and sediment controls (eg. geotextile, etc);
- Excavators;
- Rumble grid/shakers;
- Street sweeper available/accessible;
- Bunded areas, with spill kits;
- GIS to prepare sensitive area maps;
- Labour – Dedicated crew of 2 to 3 people to maintain erosion and sediment controls throughout project;
- Environmental Manager, Environmental Co-ordinator / Officer; and
- Soil Conservation Specialist.

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11 REFERENCES AND REVISIONS

Related Documents

N/A

References

N/A

Revision, Control & Amendment

Review of this Plan will be undertaken in accordance with section 6.5 of the CEMP and any revisions to this Plan will be made as required in section 4.2.3 of the CEMP and in accordance with MSP18 *Document and Data Control*. The Environmental Manager will review outstanding issues and comments provided by the ER, IC, Principal's Representative or authorities and address these either:

- in time to be endorsed by the IC and reviewed by the Principal's Representative prior to commencement of any related activities or work; or
- at the next Management Review of the plan as outlined in the Construction Environmental Management Framework.

12 INCIDENT PLANNING AND RESPONSE

Incident Planning & Response

Environmental incidents will be reported as per ISJV's SVC Incident Response Procedure contained in section 7 of *Pollution Incident Response Management Plan*. All incidents will be investigated and appropriate actions taken to address the issue. Environmental incidents that cause or threaten material harm will be reported to EPA and other authorities in accordance with the ISJV's *Pollution Incident Response Management Plan*. Details will also be reported to the ER, DP&E, and TfNSW, as per the PIRMP and SVC Incident Response Procedure.

Unexpected heritage, acid sulfate soils, soil or asbestos contamination, threatened species/EEC and fauna rescue will be managed separately in accordance with relevant procedures in the Construction Heritage Management Plan, Construction Soil and Water Management Plan or Construction Flora and Fauna Management Plan.

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Appendix 1. **Ancillary Facility Assessment Criteria**

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Ancillary Facility Assessment Criteria

For each proposed ancillary facility site, complete an assessment against the criteria below, as required by item SW1 in Section 8 of this plan.

Criteria	Compliant?	Comments
More than 50 metres from a waterway		
Within or adjacent to SVC works areas		
Ready access to the road network		
Minimises heavy vehicles movements in residential areas		
Flat or relatively level land		
Separated from nearest residences by at least 200 metres		
If it involves a batching plant, nearest residences are at least 300 metres away		
No additional vegetation clearing		
No impact on heritage items (including areas of archaeological sensitivity) beyond those already impacted by SVC works		
No unreasonable impact to use of adjacent properties		
Above the 20 year ARI flood level, unless a contingency plan to manage flooding is prepared and implemented		
Sufficient area for storage of raw materials to minimise deliveries required outside standard construction hours.		

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Appendix 2. Construction Site Information

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The following table summarises SVC construction sites and ancillary facilities.

Site	Existing Site Characteristics	Construction activities	Start date (of preparing site)	End date (after handover or rehabilitation)	Hours of site operation (specify if not standard)	Storage of dangerous goods?	Traffic access point?	Relevant plans & procedures
Ancillary facilities								
Terry Road	House yard, grassy vegetation & exotic tree	Pre-fabrication yard	March 2015	November 2016	Standard hours only	Gas cylinders	Terry Road 97 Schofields Road	All EMP's
Note: Terry Road ancillary facility has been decommissioned and the area handed over to the next contractor.								
Construction sites								
9. Balmoral Road	Semi-rural open space	Dive excavation, aboveground civil works Bridge works at Balmoral Road Internal road Soil stockpile area	October 2014	August 2017	Standard hours only (unless approved by EPA)	No	Balmoral Road	All EMPs Spoil Management Plan
		Segment storage area	June 2015	September 2017	6am Monday to 8am Sunday inclusive	No	Balmoral Road	All EMP's
10. Memorial Avenue	T-way car park and bus station, open space and some semi-rural properties A 132kV high voltage electrical transmission line crosses the site at the southern end	Viaduct construction & aboveground civil works Bridge works at Memorial Avenue Temporary relocation of the T-way car park Internal road	June 2014	September 2017	Standard hours only (unless approved by EPA)	No	Memorial Avenue	All EMPs
11. Kellyville Station	T-way car park and bus station, open space, and semi-rural properties	Viaduct construction & aboveground civil works Bridge works at Samantha Riley Drive Temporary relocation of the T-way car park Soil stockpile area	October 2014	July 2017	Standard hours only (unless approved by EPA)	No	Memorial Avenue	All EMPs
12. Windsor Road/Old Windsor Road	Open space and floodplain	Viaduct construction Workshop	October 2014	July 2017	Standard hours only (unless approved by EPA)	No	Windsor Road	All EMPs
13. Old Windsor Road/ White Hart Drive (Amber Tiles site)	Waterways and associated floodplains Commercial properties at southern end. Stabilised worksite after demolition of all structures	Viaduct construction & above ground civil works Storage and laydown Soil stockpile area Workshop Site compound and amenities*	August 2014 November 2016 (site compound)	September 2017	Standard hours only (unless approved by EPA)	No	Windsor Road Sanctuary Drive White Hart Drive	All EMPs
14. Rouse Hill Station	Rouse Hill bus station	Viaduct construction Temporary relocation of the T-way station Internal road	August 2014	September 2017	Standard hours only (unless approved by EPA)	Storage of products used for concrete casting	Rouse Hill Drive	All EMPs
15. Windsor Road Viaduct	Overflow car park for Rouse Hill Town Centre, otherwise open space	Viaduct construction Bridge works at Windsor Road	August 2014	October 2017	Standard hours only (unless approved by EPA)	Storage of products used for concrete casting	Windsor Road Rouse Hill Drive Schofields Road	All EMPs
16. Windsor Road Viaduct to Cudgegong Road	Quarry, open space, residential properties (handed over) Second Ponds Creek and its associated floodplain (handed over) 132kV high voltage electrical transmission line at western end Windsor Road median	Above ground civil works Viaduct construction Pre-fabrication yard	August 2014	October 2017	Standard hours only (unless approved by EPA)	No	Cudgegong Road Schofields Road	All EMPs

*Note: As of November 2016 the site office, construction compound and storage facility at Site 11 were removed with partial relocation to Site 12, as assessed by the EIS, and partial relocation offsite to office facilities in Bella Vista.

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Appendix 3. Ancillary Facility Assessments

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Terry Road, Rouse Hill, Ancillary Facility Assessment against Condition of Approval E42 (SSI-5100) / E30 (SSI-5414)

Criteria	Compliant?	Comments
More than 50 metres from a waterway	Yes	The north western boundary corner of the site is located closest to Second Ponds Creek (which is at least 60 metres from nearest Creek). The proposed works are approximately 120 metres from Second Ponds Creek.
Within or adjacent to SVC works areas	Yes	Within SVC work area as approved by TfNSW in Environmental Consistency Assessment, Rev 2, 13 June 2014.
Ready access to the road network	Yes	Stabilised access already established off the eastern end of Terry Road, Rouse Hill.
Minimises heavy vehicles movements in residential areas	Yes	<p>Site access for light vehicles will be via Terry Road, Rouse Hill. Terry Road is a stabilised rural road servicing the caravan park and a few residential properties along the road. Terry Road terminated in a t-intersection with Rouse Road. The proposed access route is via Windsor Rd (from the city), left into Rouse Rd, and left into Terry Road.</p> <p>Heavy vehicles access the site via the haul road constructed at 97 Schofields Road.</p>
Flat or relatively level land	Yes	Land is relatively flat.
Separated from nearest residences by at least 200 metres	No	<p>"Ok Caravan Park" is the closest residential receiver, located approximately 50 metres east of the proposed works. A noise assessment of the closest residential receiver confirms noise management levels will be met. Refer to <i>Preliminary acoustic summary for gantry crane at Terry Road compound</i>.</p> <p>Minimal impacts predicted as:</p> <ul style="list-style-type: none"> community will be notified in advance of works commencing in accordance with CLIP; Noise mitigation measures outlined in ECM and CNVIS would be implemented; lighting would be positioned so as to not cause light spill onto adjacent properties;

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Criteria	Compliant?	Comments
		<ul style="list-style-type: none"> • vegetation on the eastern boundary would be retained as far as possible to provide a visual screen for residents in the OK Caravan Park; • Hoarding would be considered to further reduce visual impact; • inductions and toolbox talks would highlight the need to be considerate of the local community; and • letterbox drops would be done to advise neighbouring residents and those along Terry Road of any out of hours operations. <p>Conclusion: no significant adverse impact</p>
If it involves a batching plant, nearest residences are at least 300 metres away	Yes	No batching plant is proposed at this site.
No additional vegetation clearing	Yes	EEC (Cumberland Plain Woodland) and two hollow bearing trees would not be impacted by the additional activities at the Terry Road construction compound. The site is largely cleared. There was no reduction in overall native vegetation covering as the ancillary facility was sited in an existing area cleared of vegetation where there is non-native vegetation and weeds.
No impact on heritage items (including areas of archaeological sensitivity) beyond those already impacted by SVC works	Yes	There are no indigenous or non-indigenous heritage within the site. The western corner of the southern boundary adjoins an area of indigenous heritage that has not been cleared. However this is outside the boundary of the compound.
No unreasonable impact to use of adjacent properties	Yes	<p>The impact to use of adjacent properties from noise and vibration and air quality impacts will be reasonable given the site:</p> <ul style="list-style-type: none"> • is temporary • was previously used as a landscaping supply yard, where mulch and soils were stockpiled. • is to be used during normal construction hours • worker amenity sheds have been placed to shield adjacent properties from prefabrication works. • is well screened from adjacent properties by surrounding vegetation.
Above the 20 year ARI flood level, unless a contingency plan to manage flooding is prepared	Yes	The 20 year ARI flood level extends approximately 50 metres from Second Ponds Creek. The site is therefore just above the 20 year ARI flood level, at its closest point. The site borders the Riparian

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Criteria	Compliant?	Comments
and implemented		Buffer at the north western corner but the activities are on the eastern boundary of the site, away from the creek.
Sufficient area for storage of raw materials to minimise deliveries required outside standard construction hours.	Yes	<p>Terry Road Site Compound chosen for its ability to provide a stable area to maintain construction of the prefabricated cages in all weather conditions with no impact on, or from, other operations on the project.</p> <p>This site has suitable access to the public roads that would not be impacted by construction of haul roads or gantry works.</p>

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Appendix 4. **Compound and Ancillary Facility Activities**

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Steel Prefabrication Yard at Terry Road Site Compound, Rouse Hill

The Steel Prefabrication Yard is to be used for the manufacture and storage of steel reinforcing cages and headstocks, loading of steel reinforcing cages onto transport trucks, transport of cages at night in accordance with RMS/TMC requirements for oversize loads (using Terry Road and Schofields Road as applicable), and provision of car parking and worker amenities.

Details of the establishment and use of this site are provided in the table below.

This facility has now closed and the area rehabilitated and handed over to the next contractor.

Activity	Description	Equipment (Indicative)	Timescale / Duration
Site establishment			
Construction staff car parking, worker amenities	Supply and installation of portable sheds. Connection to some of the existing services once temporary sheds are in position.	Tilt tray deliveries, truck mounted crane or franna crane	2-3 days
Concrete stabilisation of prefabrication yard	Demarcation of no go areas, installation of environmental controls. Demolish and remove redundant materials.	1 x excavator, 1 x pad foot roller, 1 x grader, 1 x drum roller, concrete pump, 1x concrete agitator, 2 x trucks including tilt trays	Up to 4 weeks
Installation of 4 prefabrication jigs/ stabilisation of crane pad		25T Franna crane, 2x rattle guns, 1x generator, handtools including a hammer and shifters	Up to 4 weeks
Operation of site			
Delivery of steel (Standard hours only)		3 x steel delivery trucks (generally MR-HR), 1 x 25t Franna Crane	Until completion of ISJV construction works in the area (October 2016)
Manufacturing and storage of steel reinforcing cages		welders, grinders, power saws, pneumatic rattle gun, oxy-acetylene sets, hand tools (powered and unpowered), air compressors, light vehicles.	Until completion of ISJV construction works in the area (October 2016)

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Activity	Description	Equipment (Indicative)	Timescale / Duration
Loading of cages onto transport trucks (standard hours)		1x Transport truck (drop deck semi-trailer), 1x 130-150t Crane, 2x support truck (HR)	Until completion of ISJV construction works in the area (October 2016)

Site Compound at Amber Tiles, Kellyville

The Site Compound facility will be used for accommodating construction staff. Current use of area is laydown, storage and workshop. Use of ancillary facility will not increase any light, noise, traffic, air emissions or visual amenity impact compared to current usage activities.

Details of the establishment and use of this site are provided in the table below.

This facility has now been demobilised and ISJV have ended their occupation of the area.

Activity	Description	Equipment (Indicative)	Timescale / Duration
Site establishment			
Staff car parking and worker amenities	Supply and installation of portable sheds	Tilt tray deliveries, truck mounted crane or franna crane	2-3 days
Prefabrication of Office complex	Installation and fitting of Office complex	Hand tools including hammer and shifters. Franna Crane	2-3 days
Operation of site			
Office use for administration by construction staff	Project Administration	Workstations, Desktop computers, Air-conditions	200 days

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Site Compound at Commercial Road, Rouse Hill

The Site Compound facility will be used for accommodating construction staff. Current use of area is laydown, storage and workshop. Use of ancillary facility will not increase any light, noise, traffic, air emissions or visual amenity impact compared to current usage activities.

Details of the establishment and use of this site are provided in the table below

Activity	Description	Equipment (Indicative)	Timescale / Duration
Site establishment			
Upgrade of existing facilities	Erection of workshop	Tilt tray deliveries, truck mounted crane or franna crane	2-3 days
Prefabrication of Office complex	Installation and fitting of additional demountable complex	Hand tools including hammer and shifters. Franna crane	2-3 days
Operation of site			
Office use for administration by construction staff	Project Administration	Workstations, Desktop computers, Air-conditions	Until construction completion