Site Environmental Plan (SEP) MAIN ROAD, ST ALBANS

SEP Scope and Timeframe

This SEP covers the key environmental management measures relevant to activities which will be undertaken during Construction for the Main Road St Albans Grade Separation Project.

Responsible Persons		
AM – Alliance Manager CM – Construction Manager EMR – Environmental Management Rep HSM – Health & Safety Manager PE – Project Engineer	SV – Supervisor SM – Stakeholder Manager SE – Site Engineer ProM - Procurement Manager All – ALL (incl Subcontractors)	

Sub Plan I. Water, Sediment & Erosion		
Key Management Measures	Who	Sub Plan 2: Flora & Fauna
Erosion and sediment controls must be designed, developed and implemented in consultation with the construction team and project environmental representative	СМ	Key Management Measures Prior to any disturbance, clearing or grubbing activities in any locations the following must be in place;
Clean water diversions must be installed prior to the commencement of work.	SV	 A Permit to Clear Land or Vegetation must be obtaine from an Environmental Representative. No-go Zones for significant flora and fauna must be
Erosion and sediment controls must be installed prior to or immediately upon any disturbance to vegetation or soil. These controls must remain in place until revegetation, stabilisation or hard scaping has occurred. If these controls require maintenance notify your supervisor.	SV	 established, fenced/flagged and sign posted prior to commencement of clearing at a minimum of 1 metre from the boundary of the habitat to be protected. A wildlife catcher/spotter or the Environmental Representative needs to conduct a search for any wildlife that may need to be removed and relocated
Cleared areas must be kept to a minimum and be progressively rehabilitated/revegetated as they become available.	SV	A suitably qualified ecologist or wildlife specialist with the appropriate permits/licenses shall be present on site during
All materials must be stockpiled away from water flow paths.	SV	the removal of vegetation to: identify and examine any trees (including hollow)
Sediment laden water (dirty water) captured onsite must be preferentially reused eg. dust control.	SV	bearing trees) and/or fallen logs affected by works under the Contract to identify, capture and relocate
Water discharged from site is in strict accordance with the site's dewatering procedure, which is approved by the Environmental Manager.	SV	fauna identified within the zone to be cleared; and provide advice on alternate fauna habitat sites If a threat to an animal is evident onsite you must contact you supervisor and/or EMR Project Environmental Representative
No transfer/discharge will be made without a Permit To Dewater approved by the project environmental representative.	SV	immediately. Works may need to cease if the animal is in danger or harmed until it has been relocated. Identified wildlife within the project area can only be capture and released but a walfied wildlife. Second the holds the
An adequate number of concrete washout facilities must be maintained at all times. The washout facilities will be isolated from surface water flows using bunds to prevent contamination of clean surface waters and will be lined to prevent contamination of soil and ground water	SV	relevant permits for capture and release. The site speed limits must be obeyed at all times, especially areas where vehicle/fauna interactions are identified as high risk. All plant should remain on haul roads as much as possible so a
All hazardous substances (liquids and solids) are stored and managed according to AS1940.	SV	to minimise damage to vegetation No-go zones must be obeyed at all times without a Permit to
All refuelling points, including refuelling/lube trucks, will carry hydrocarbon spill kits.	SV	signage must be reported to your supervisor or Project Environmental Representative immediately.
 The quantity of water consumed on the project from each of the following sources are reported monthly: Potable water, Water obtained under an extraction licence or other regulatory authority, Recycled water sourced from outside the project. Water use will be tracked on site by the use of water tracking forms (LAH-EN-FO-0002) 	EMR	 Ensure the No-Go Zone includes the full Tree Protection Zone where trees are present. Where encroachment within the Tre Protection Zone is unavoidable the contractor shall: Engage a suitably qualified arborist to assess the potential impact on the trees; the arborist assessment shall include the botanical name, diameter at a height of 1.4 metres, useful life expectancy, the tree location and whether the proposed impact on any Tree Protection Zone will
A water budget appropriate to the type and scale of the project will be maintained.	PM	 The assessment shall recommend whether the tree of be retained with mitigation measures or whether it
Opportunities to minimise the use of high quality water will be continually sought and adopted as appropriate.	РМ	 should be removed. Pruning of any vegetation to be retained shall be undertaken by a suitably gualified arborist (minimum
Where groundwater is unexpectedly encountered, a management plan shall be developed and implemented to manage the groundwater and protect beneficial uses in accordance with the requirements of the EPA and/or relevant authority.	EMR	Australian Qualification Framework Level 3, Certificat III Horticulture (Arboriculture). Cleared/removed vegetation will be beneficially used either or or off the project where possible (e.g. for habitat, chipped for mulch and reused)
Undertake a visual assessment of the site for groundwater daily during all excavations.	SV	Where possible revegetation activities will preferentially use only species that are indigenous to the area Boundaries of allowable disturbance areas on the project are
Stabilised access, rumble grids must be established for site entries and exits to minimise mud on public roads. Sweepers shall be used periodically to clean public roads where mud has been deposited.	SV	clearly marked and delineated Plant, equipment, material or debris shall not be driven, dragged, placed or stored within the No Go Zones. Vegetatio management activities required to protect vegetation quality may be undertaken in No Go Zones.

Covering of exposed surfaces (including batters and stockpiles) that would otherwise remain bare for more than 28 days. Cover may include mulch, erosion control mat or seeding with sterile grass

SV

Sedimentation basins will be utilised to manage runoff where EMR space within the rail corridor permits their installation. Such basins will be designed to contain flows from a rainfall event having an Average Recurrence Interval of not less than two years and six hour duration when allowing for a 30% reduction in capacity as a result of sediment accumulation. The sizing and modelling of temporary sedimentation basins shall be undertaken using recognised 'best practice' modelling techniques or 'VicRoads Temporary Sedimentation Basin Design Tool'.

Sub Plan 2: Flora & Fauna

Key Management Measure

Prior to any disturbance, clearing or grubbing activities in any EMR locations the following must be in place: A Permit to Clear Land or Vegetation must be obtained

from an Environmental Representative. No-go Zones for significant flora and fauna must be established, fenced/flagged and sign posted prior to commencement of clearing at a minimum of 1 metre from the boundary of the habitat to be protected. A wildlife catcher/spotter or the Environmental Representative needs to conduct a search for any

wildlife that may need to be removed and relocated. A suitably qualified ecologist or wildlife specialist with the EMR appropriate permits/licenses shall be present on site during the removal of vegetation to:

provide advice on alternate fauna habitat sites If a threat to an animal is evident onsite you must contact your All supervisor and/or EMR Project Environmental Representative immediately. Works may need to cease if the animal is in danger or harmed until it has been relocated. Identified wildlife within the project area can only be captured EMR and released by a qualified Wildlife Specialist who holds the relevant permits for capture and release. The site speed limits must be obeyed at all times, especially All areas where vehicle/fauna interactions are identified as high All plant should remain on haul roads as much as possible so as SV to minimise damage to vegetation No-go zones must be obeyed at all times without a Permit to SV/P Enter No-go Zone. Any damage to no-go zone fencing or M signage must be reported to your supervisor or Project Environmental Representative immediately. Ensure the No-Go Zone includes the full Tree Protection Zone PM where trees are present. Where encroachment within the Tree

Protection Zone is unavoidable the contractor shall: Engage a suitably qualified arborist to assess the potential impact on the trees;

- the arborist assessment shall include the botanical name, diameter at a height of 1.4 metres, useful life expectancy, the tree location and whether the proposed impact on any Tree Protection Zone will significantly impact the future health of the tree(s).
- The assessment shall recommend whether the tree can be retained with mitigation measures or whether it should be removed.
- Pruning of any vegetation to be retained shall be undertaken by a suitably qualified arborist (minimum Australian Qualification Framework Level 3, Certificate III Horticulture (Arboriculture). Cleared/removed vegetation will be beneficially used either on SV or off the project where possible (e.g. for habitat, chipped for mulch and reused) Where possible revegetation activities will preferentially use PM only species that are indigenous to the area EMR Boundaries of allowable disturbance areas on the project are clearly marked and delineated Plant, equipment, material or debris shall not be driven, SV dragged, placed or stored within the No Go Zones. Vegetation

Pre-construction surveys shall be undertaken by qualified

EMR

Noise minimisation activities will include

Ecologists to identify and map all areas of native vegetation. Vegetation to be protected and or remove shall be clearly marked on the Site Environmental Plan (SEP) In the event that significant flora or fauna is discovered within the construction area, cease operation and notify the Environment Manager, who will contact an ecologist to accurately identify and provide advice for the management of the discovered winning.	PM/S V	 Planning of works Where possible schedule noisy activities to daytime hours or before 10pm for night-works Locate noisy plant such as generators and light towers to minimise the impact of noise on residential areas Select the lowest noise generating equipment Where necessary construct and maintain noise barriers to child similing the processing the prior to a plant
the discovered significant flora or fauna In the event that significant flora or fauna is discovered within the construction area , cease operation and notify the Environment Manager, who will contact an ecologist to	SV	to shield significant noise generating activities or plant Work practices predicted to generate non-compliant vibration must be amended prior to commencing works to the extent required to comply with applicable limits.
accurately identify and provide advice for the management of the discovered significant flora or fauna Declared weeds, pests and diseases (also referred to as pathogens) shall not be introduced to the site, spread through	SV	In accordance with contractual requirements early consultation must be conducted with community stakeholders on the likely impacts of vibration in particular any high risk activities likely to cauce direction
consequence of work, Machinery that has been in contact with topsoil to be cleaned prior to arriving and leaving site. Machinery brought to site must be inspected to ensure that it is clean and free of soil and seed- a logbook of inspections is to be maintained	SV and	All equipment is serviced and maintained according to, as a minimum, the original equipment manufacturers recommendations, or more frequently if required to minimise noise generated. Where the OEM requirements are not
Activities likely to cause fire are to be undertaken in accordance with project permits and controls to prevent fire occurring on site and spreading to adjacent No-Go Zones	SV	available then industry best practice maintenance is applied. Blasting activities are designed to minimise the impacts relating to vibration
Avoid, minimise and offset (where appropriate) the removal of native vegetation including identified indigenous native trees during design and construction.	EMR	Pre-construction property condition surveys will be completed for properties located within 50m of construction activities where agreed but the owner.
 All site staff and contractors must attend an induction session presented by a suitably qualified ecologist prior to the admittance to the project area. The induction must include: a brief on the identification and conservation status of listed threatened species and communities; the reason for mitigation measures and practices to 	EMR	Vibration monitoring will be conducted at a frequency and locations to confirm compliance with the German Standard DIN 4150 – Part 3 – "Structural Vibration in Buildings – Effects on Structures".
 minimise impact to threatened species; stop work procedures should threatened species and communities be identified during construction details of the EPBC Act Referral 2014/7203 Approval. 		Blasting overpressure must not exceed 133 dBL. Vibration generated by blasting must not exceed the criteria set out in Table VR 177.H3.01 Transient Ground Vibration Criteria for Assessing Potential for Damage to Buildings
Sub Plan 3 & 4: Noise & Vibration		
Key Management Measures	Who	Sub Plan 5: Heritage
Key Management Measures Undertake construction activities within the nominated hours of work to comply with contractual and legal requirements.	Who PM	Sub Plan 5: Heritage Key Management Measures
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PM



A cultural Heritage Advisor is to be engaged to by the project to provide advice and guidance if a heritage item is discovered.	EMR
The following procedure will apply in the event of the	SV
discovery of suspected human remains:	
 all activity in the vicinity shall stop: 	
the remains must be left in place, and protected from	
harm or damage	
 immediately notify the local office of Victoria Police or 	
the State Coroner's Office and the Superintendent of	
the discovery	
if there are reasonable grounds to believe that the	
 If there are reasonable grounds to believe that the 	
remains are Aboriginal human remains, report the	
discovery (including the particulars of the location and	
nature of the human remains) to Aboriginal Affairs	
Victoria; and	
 implement appropriate impact mitigation or salvage 	
strategy as determined by the responsible authority	
and if relevant, in consultation with any Aboriginal	
person or body with an interest in the Aboriginal	
human remains.	

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Sub Plan 6: Contamination	
Key Management Measures	Who
Whenever contaminated materials are discovered or suspected, works must cease and the supervisor and project environmental representative notified immediately. Testing by a trained and competent person must be conducted and a management strategy developed.	All
Contaminated land will need to be handled, stockpiled, reused and/or disposed of as per the Projects Contaminated Land Management Strategy.	EMR
The movement of materials must be tracked via the Materials Tracking Form. The Transport of contaminated soil from site must be undertaken in accordance with EPA Victoria requirements, in a permitted vehicle and accompanied by a waste transport certificate.	SV
Water runoff from contaminated land and stockpiles must be contained, treated or disposed to ensure there is no pollution of land or waterways.	SV
All vehicles, plant and other machinery operating in contact with contaminated soil must be decontaminated prior to leaving site.	SV
Testing by a trained and competent person occurs whenever contaminated material is present or believed to be present at the project. Testing shall comply with all legislative requirements.	EMR
Temporary water management works will be put in-place to capture contaminated runoff from stockpiles and contaminated areas. Water and sediment will be monitored for quality and managed in accordance with regulatory requirements.	EMR
Any soil identified as Acid Sulphate Soil (ASS) or Potential Acid Sulphate Soil (PASS) will be managed in accordance to the Manage Acid Sulphate Soil Procedure.	SV
A visual assessment of the site for contaminated soils and materials will be undertaken daily during the following activities, stripping of topsoil, excavations and when importing fill.	SV
 All work shall comply with the following requirements in relation to contaminated soil: soils or materials shall not be contaminated as a consequence of construction; soil and materials imported to the site shall be free from contamination; contaminated soil/materials shall only be reused on site following approval from VicTrack and EPA Victoria; 	EMR
Contaminated soil/materials to be temporary stored/reused on site as part of construction shall be temporarily stored and managed to minimise any impact on the site or surrounding environment by means of covering with plastic to prevent odour and rain infiltration and the generation of contaminated runoff.	

Site Environmental Plan (SEP) MAIN ROAD, ST ALBANS

Sub Plan 7: Acid Sulfate Soil	
Key Management Measures	Who
Whenever ASS/PASS material is discovered or suspected, works must cease and the site supervisor and project environmental representative notified immediately.	SV
Testing by a trained and competent person must be conducted and an ASS/PASS management strategy developed.	EMR
All known or discovered areas of ASS/PASS will be communicated to those involved via the induction, toolbox talks, pre starts and Site Environmental Plans.	SV
Disturbance of surface and subsurface soils in potential ASS/PASS must be minimised.	SV
All persons likely to be involved with the management of ASS/PASS will be trained in their identification and management.	SV
ASS/PASS will need to be handled, stockpiled, tracked, treated and reused and/or disposed of as per the Projects ASS/PASS management strategy.	EMR
The movement of ASS/PASS materials must be tracked via the Materials Tracking Form	SV
Water runoff from ASS/PASS stockpiles must be contained, treated or disposed to ensure there is no pollution of land or waterways.	SV
All vehicles, plant and other machinery operating in contact with ASS/PASS must be decontaminated prior to leaving site.	SV
A spill of ASS/PASS material outside the ASS/PASS storage and/or treatment areas or evidence of impacts on waterways must be reported to the supervisor and Environmental Representative immediately.	All
Sub Plan 8: Energy	
Sub Plan 8: Energy Key Management Measures	Who
Sub Plan 8: Energy Key Management Measures Energy efficiency and GHG reduction initiatives identified in the tender Sustainability Workshop will be included in the Start-up energy efficiency opportunities assessment and/or Environment in Design Workshop.	Who AM
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Subcontractors will be required to implement practical energy efficiency initiatives. They are required if requested to provide energy use reports and will be held to account if they are not provided.	EMR
Where relevant, procurement decisions will include energy efficiency and greenhouse gas considerations of the product or service	ProN

Sub Fidit 9. Hazarubus Substances	
Key Management Measures	Who
Prior to bringing new chemicals to Site, the Project must be provided with the current (Safety Data Sheet) (SDS).	All
Storage and handling of hazardous substances must be in strict accordance with the applicable Standards and SDS.	SV
Hazardous substances must be stored in a bunded area with a minimum holding capacity of 110% of the largest container within the bund or 25% of the total capacity of all containers within it, whichever is the greatest and comply with Dangerous Goods (Storage and Handling) Regulations 2012 and EPA Bunding Guidelines (EPA Publication 347) including the placarding of compounds and bulk storage containers	SV
Spill kits must be located adjacent to all hazardous substance storage units, in refuelling and maintenance areas and at designated locations as per the Site Environment Plan (SEP).	SV
Type and size of spill kits must be selected based on the type and volume of materials stored. Aquatic spill kits shall be available at worksites in close proximity to waterways.	EMR
Training in the use of spill kits must be provided.	EMR
Refuelling must not occur within 30m of a waterway (without appropriate controls in place) refer to Refuelling procedure (LAH-EN-PRO-0004).	SV
Management of hazardous materials will be covered in the site induction. Relevant workers will undergo spill response training, as well as safe handling and storage training.	EMR
Containment devices, including bunds, separators and catch trays, will be used where ever there is a risk of spillage.	SV
Inspections will be carried out weekly to assess the storage and handling of hazardous materials as a part of the HSE inspection program.	EMR
Undertake routine maintenance of plant and equipment for prevention of fuel leaks, visible exhaust emissions or other maintenance issues.	SV
An Emergency Response Plan which incorporates a spill response procedure shall be maintained for the project	EMR
All spills of fuel, oils and hazardous substances to be reported to the Environment Manager for follow up and reporting	SV

Sub Plan 10: Waste	
Key Management Measures	Who
All wastes need to be classified, stored, tracked, transported and treated in accordance with contractual and regulatory requirements, including the use of licensed transporters and treatment facilities	СМ
The relevant licences of waste facilities utilised for the disposal or handling of waste will be obtained to ensure they are legally compliant.	EMR
Storage containers (bins, skips, tanks, etc) are provided at each work area in sufficient numbers to facilitate segregation of waste at the source of generation, where ever possible. The correct bin type must be used to avoid contamination.	СМ
Containers are clearly sign posted to inform all project personnel of the correct material to be placed within each bin type. Containers are emptied at a frequency that is sufficient to ensure their correct use.	СМ
Burial or burning of waste is not permitted.	SV
Excess concrete and concrete washout is not to be discharged to land or stormwater; a concrete washout facility must always be used.	SV
Vehicles transporting waste shall be covered and appropriately licensed.	SV
All waste data must be collated and tracked using Material Tracking Forms (LAH-EN-FO-0003).	SV
An adequate number of fully maintained concrete washouts will be maintained on the site at all times to ensure concrete washout is not to be discharged to land or storm water and so	SV

concrete wastes can be recycled.		Stakeholders and Consultation Strategie
he Environmental representative will conduct a weekly spection of site including inspection of waste facilities and stances of inappropriate waste management	EMR	Plan Ref: Stakeholder and Communication Management Plan. In event that you need to contact a regulatory organisation please of the Stakeholder and Communications Manager or the Environme Manager who will contact the relevant organisation on your heb
Sub Plan 11: Air		wander who will contact the relevant organisation on your being
Key Management Measures	Who	Consultation Strategy
reas in which vegetation will be removed or disturbed need o will be minimised. Rehabilitation, seeding or grassing should	SV	Notification To Community Relations
occur as soon as they become available.		Contact Community Relations a minimum of 3 weeks prior to the
isturbed areas and haul roads must be treated with dust uppressants (e.g. water trucks or chemical suppressants) specially in high risk areas and/or on during high risk days.	SV	 Noise and vibration generating activities within 300 m of a sen location.
stabilised access, rumble grids, wash bays or similar must be	СМ	Out of nours and sleeping Hours work. Complete Lendling I fuely are contested by a constraint in the second statement is second statement in the second statement in the second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement is second statement in the second
tablished for the entries site and exits to site to minimise ud on public roads. Sweepers shall be used periodically to ean public roads where mud has been deposited.		please provide them with the 1800 no below and advise your Con Rep.
raffic speed limit(s) are determined to minimise dust generation and must be adhered to at all times.	СМ	Project 24/7 Community Contact Number 1800 762 667
 Il construction plant and equipment must be maintained so ney do not emit visible smoke for any period greater than: 15 consecutive seconds for plant not being registered for use on public roads; and 10 consecutive seconds for plant registered for use on public roads. 	SV	
Burning of any materials is prohibited onsite.	SV	
Competently designed and constructed rumble pads shall be established for the ingress and egress of all vehicles.	SV	
Air quality monitoring conducted in accordance with Australian Standard and at a frequency and at locations to confirm compliance with the regulatory limits will be conducted.	EMR	
Emissions of odorous substances, particulates, or dust generated from construction activities shall not create a hazard or nuisance to the public, shall not disperse from the site or across roadways, nor interfere with dust-sensitive receptors. Asbestos containing materials to be assessed and removed	СМ	
Material that may create a hazard or nuisance dust shall be covered during transport	SV	

Licences and Approvals			
Out of Hours Permit (LAH-EN-PMT-0005)	To enable works to normal working hou	occur outside of Irs	
Permit to Discharge LAH-EN-PMT-0001)	To release water to	the environment	
Vegetation Clearance Permit (LAH-EN-PMT-0004)	To clear an area (ve heritage)	getation &	
EPBC Act Referral 2014/7203 approval conditions	To protect EPBC list	ed vegetation	
Cultural Heritage Management Plan (CHMP) VAHR 7822-3754 (St Albans Rail Reserve LDAD).	For the protection of heritage significance	f sites of cultural	
Evaluating Perf	ormance	Who	
Daily, inspect the condition of measures and arrange mainte	Daily, inspect the condition of protection and control measures and arrange maintenance, as required.		
Weekly, inspect the condition of protection and control measures and arrange maintenance, as required.		EMR	
Poir	nts of Contact		
Name	Title	Number	
	EMR	÷-	
	Superintendent Supervisor		
1	Senior Project Engineer		
	Community Relations Advisor		



rategies ment Plan. In the

ation please contact he Environment on your behalf.



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