Environmental management plan [template]

[Project/contract]

[Date/year]

Quality information

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| Document  |  |
| Reference |  |
| Date |  |
| Prepared by |  |
| Reviewed by |  |

Revision history

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| --- | --- | --- | --- |
| Revision # | Revision date | Details | Authorised by |
| Name/position | Signature |
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Abbreviations

*[Update as required]*

|  |  |
| --- | --- |
| AEE | Assessment of environmental effects |
| CSMP | Customer and stakeholder management plan |
| CS-VUE | The Waka Kotahi consent compliance management system |
| DOC | Department of Conservation |
| EMP | Environmental management plan including any sub-plans |
| HNZPT | Heritage New Zealand Pouhere Taonga |
| IPR | Independent peer review |
| KRA | Key result area |
| M&O | Maintenance and operation  |
| MCM | Maintenance contract manager |
| MEP | Māori engagement plan |
| NOC | Network outcomes contract |
| PM | Project manager |
| RMA | Resource Management Act 1991 |
| SQP | Suitably qualified professional |

Definitions

*[Update as required]*

|  |  |
| --- | --- |
| Environmental | Relating to the natural world of land, air, sea, freshwater, plants and animals, but also includes social (human interaction) and historic heritage (refer definition below) in the context of this guideline. |
| Environmental management plan | A management plan to manage Waka Kotahi activities related environmental risks for construction (capital works projects) and maintenance and operation activities (M&O contracts). Includes any sub-plan(s).  |
| Environmental incident | An unplanned event (actual or potential) which results in adverse environmental impacts and may require an immediate response in order to minimise that impact, eg pollution (air, water or land), noise, ecological or archaeological disturbance and/or finds. |
| Environmental risk | Actual or potential threats (based on likelihood and consequence) of adverse environmental effects/impacts occurring from an activity.  |
| Historic heritage | As defined in the Resource Management Act 1991. Includes archaeology, cultural and built heritage and sites of significance to Māori. |
| Independent peer reviewer | The same description as for suitably qualified professional (refer definition below) but must also be independent from the EMP and/or sub-plan author(s) and their organisation(s) and have no financial or other interest in the outcome of the review. |
| Mitigation | The process of preventing, avoiding, or minimising adverse effects/impacts by: * refraining from a particular action
* limiting the degree of an action
* repairing, rehabilitating or restoring the affected environment, or
* providing substitute resources.
 |
| Sensitive site | Locations where sensitive receivers are located including but not limited to: watercourses, harbours/coasts, wetlands, significant natural areas, conservation land, areas identified as having biodiversity value (eg habitat for threatened or regionally uncommon species), cultural/archaeological sites, heritage landscapes, residential/school properties etc. Appendix B provides additional references to assist with identifying sensitive sites. |
| Statutory approval | Approvals/consents obtained from statutory authorities, for example, but not limited to: resource consent, designation, consent, outline plan of works, archaeological authority and wildlife authority permit.  |
| Statutory authority or body | A body set up by [law](https://en.wikipedia.org/wiki/Law) ([statute](https://en.wikipedia.org/wiki/Statute)) that is authorised to implement legislation on behalf of the government. |
| Suitably qualified professional | Means a person that has all of the following qualifications and experience: * a relevant tertiary degree or equivalent,
* at least eight years of relevant experience,
* membership or preferably chartered/certified status with a relevant professional body that includes a requirement to provide evidence of continuing professional development,
* experience with at least three projects, plans and/or activities of a similar nature, scale and complexity.

In relation to the EMP, the suitably qualified professional (SQP) qualifications and experience should relate to EMP development and implementation. For sub-plans alternative SQPs with qualifications and experience relating to the specific technical discipline are acceptable, eg historic heritage, ecology or noise. In some circumstances exemptions to SQPs may be permitted, but this must be agreed with the Waka Kotahi project/contract manager prior to any works taking place. |
| Zone of influence | The areas/resources that may be affected by the biophysical changes caused by the construction of the project/contract. The zone of influence may differ depending on the type of environmental risk and receiver. |

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# 1.0 Introduction

This environmental management plan (EMP) has been developed in accordance with the Waka Kotahi  [*Guideline for preparing an environmental management plan*](https://www.nzta.govt.nz/roads-and-rail/highways-information-portal/technical-disciplines/environment-and-social-responsibility/management-plans/) (EMP guideline). This EMP gives effect to Waka Kotahi standards, policies and guidelines, as well as any statutory requirements under the project/contract.Appendix A (minimum requirements checklist) from the EMP guideline is appended to this EMP to confirm that minimum requirements have been met.

***[Note****: Text in [italics and square brackets] provides instructions/guidance and should be updated with project/contract specific details or deleted.]*

## 1.1 Project/contract description

*[Briefly describe the project/contract activities that are relevant to this EMP and that may interact with the environment. Include a map (regional context) to show the project location/contract network, landmarks and any associated depots etc. For M&O contracts this should include ‘year-round’ and seasonal activities.]*

*Table 1: Project/control details*

|  |  |
| --- | --- |
| Item | Details |
| Project/contract name | *[Insert project/contract name]* |
| Project/contract # | *[Insert project/contract #]* |
| State highway classifications (M&O contracts only) | *[Insert state highway classifications]* |
| Commencement date | *[Insert project/contract date]* |
| Project/contract period | *[Insert contract period]* |
| Council(s) who have jurisdiction | *[Insert territorial/regional/unitary council(s) who have jurisdiction]* |

## 1.2 Receiving environment

*[Briefly describe the surrounding area/receiving environment in order to set the scene for the different types of risks associated with the activities undertaken by the project/contract. This should include an overview of sensitive sites within the natural and urban environments.]*

## 1.3 Management plan framework

[*Insert a schematic like the one below illustrating the project/contract management plan framework that is required under Waka Kotahi contracts/policy and/or statutory approvals and how the EMP and any sub-plans sit within it.]*

Quality management plan

Environmental management plan

Customer and stakeholder management plan

Health and safety management plan

Other plans

Sub-plan 1

Sub-plan 2

Sub-plan 3

*Figure 1: Management plan framework*

*[Use the table below to illustrate the project/contract plan suite, including titles and descriptions of how they are relevant to this EMP.]*

*Table 2: Contract plan suite and relevance to this EMP*

|  |  |  |
| --- | --- | --- |
| Plan abbreviation | Plan title | Plan description and relevance to this EMP |
| *For example: QMP* | *Quality management plan* | *Describes quality management procedures and includes audit schedule/programme, including environmental.* |
| *For example: CSMP* | *Customer and stakeholder management plan*  | *Describes protocols and procedures for engaging and notifying stakeholders, neighbours and the community about project works and environmental mitigations, as well as other proactive promotional communications and events. Also details the customer database and complaints database and procedures.*  |

## 1.4 Roles, responsibility and contact details

[*Use an organisation chart (or similar format) to illustrate how environmental management roles and responsibilities are integrated and how the structure will operate within the project/contract team.*

*Assign all roles and responsibilities (including contact details) outlined within this EMP using the following table. Detail where roles have been identified, but may not have been assigned*]

*Table 3: Roles, responsibilities and contract details relevant to the EMP*

|  |  |  |
| --- | --- | --- |
| Role | Responsibilities | Contact details |
| *For example: Environmental Manager* | *Environmental compliance and management, including being the CS-VUE condition manager* | *Ph: 021 XXX XXX**Email: X@X.com* |

# **2.0 Environmental risks and opportunities**

## 2.1 Sensitive sites

[*Include a separate ‘live’ register, GIS map and/or work planning procedure that details or provides information relating to the location and description for all known sensitive sites within the zone of influence of the project/contract. Sensitive sites are places where sensitive receivers are located, including (but not limited to)*:

* *significant natural areas, conservation land, areas identified as having biodiversity value, for example habitat for threatened or regionally uncommon species*
* *watercourses, wetlands and lakes*
* *harbours, coasts and estuaries*
* *heritage places/sites/structures/areas*
* *places of significance to Māori*
* *residential areas, schools, hospitals (as they relate to public health, for example air quality, noise and vibration, contaminated land).*

*Where these have not been previously identified, resources to help inform the location of sensitive sites is included in Appendix B of the EMP guideline. This list of resources may be updated with regional specific information and may form the basis of a work planning procedure.*

*The development of the sensitive site maps or register may continue for some time (from the start of a project/contract), so an interim procedure to support work planning should be utilised. The EMP should detail both methods for identifying sensitive sites.]*

## 2.2 Environmental risks and opportunities

*[Cross reference to a ‘live’ environmental risks and opportunities register, ideally utilising the contractor’s existing health, safety and environment risk register. An example register is included as Appendix B of this template and can be adapted to meet the project/contract environmental risks and opportunities as required. Risk registers must comply with the* [*Risk management practice guide (minimum standard Z/44)*](https://www.nzta.govt.nz/assets/resources/minimum-standard-z-44-risk-management/risk-management-plan-minimum-standard-z-44.pdf) *and as a minimum must:*

* *list the activities the project/contract undertakes and the associated environmental risks/opportunities*
* *rate the risks without management*
* *describes how risks will be managed – cross referencing to environmental controls such as operating procedures, relevant tools and/or sub-plans*
* *reassesses risk with management in place and identifies residual risk*
* *ensures high residual risks are discussed with Waka Kotahi project/contract manager.]*

## 2.3 Regulatory and consent requirements

### 2.3.1 Regulatory and other requirements

*[Identify the regulatory and other requirements in the following table that are relevant to the project or contract. The table below should be updated as necessary.]*

*Table 4: Key national legislation, regulation, standards and policies*

[***Note****: this list needs to be reviewed and updated to reflect the specific project/contract]*

| National legislation, regulations, standards and policies  |
| --- |
| *For example: Resource Management Act 1991* |
| *Building Act 2004* |
| *Wildlife Act 1953* |
| *Hazardous Substances and New Organisms Act 1996* |
| *Protected Objects Act 1975 – for the relevant archaeological and heritage standards/practices* |
| *Heritage New Zealand Pouhere Taonga Act 2014*  |
| *National Environmental Standards for Air Quality*  |
| *National Environmental Standards for Freshwater* |
| *National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health* |
| *Health and Safety at Work (Asbestos) Regulations 2016* |
| *Health and Safety at Work (Hazardous Substances) Regulations 2017*  |
| *Technical Guidelines for Disposal to Land, Waste Management Institute New Zealand, 2018*  |
| *Waste Minimisation Act 2008* |
| *Biosecurity Act 1993* |
| *Conservation Act 1987* |

### 2.3.2 RMA consent and other statutory requirements

*[Use the table below (or cross reference to a live spreadsheet/register) to provide a summary of RMA consents, designations, archaeological authorities, DOC permits etc that are relevant to this EMP and require a related operational procedure or plan. CS-VUE should still be the main system used to manage and monitor all consents and concessions]*

*Table 5: Consent summary and relevance to this EMP*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Activity description  | Permit number  | Location | Condition requirement | Relevant sections within this EMP  | Responsible person(s) |
| *Land use – disposal of cleanfill* | *Eg: P123expiry date 28/02/2025* | *Clearwater Stream adjacent to Blue Bridge* | *Condition #2 erosion and sediment control measures should be in place and should be checked monthly.* | * *Freshwater quality and ecosystems (section 3.2.4).*
* *Resource efficiency and waste minimisation (section 3.2.10).*
 | *Operations Manager* |
| *P321 expiry date 12/01/2028* | *Landend Depot* | *Condition #14 The consent holder shall not store more than 100m3 of cleanfill at the cleanfill deposit areas and shall keep records that should be made available to the council compliance manager upon request.* | *Operations Manager* |
| *All project activities* | *Eg: P124* | *Project Area A* | *Prepare an EMP that details xyz.* | *All EMP sections* | *Project Environment Manager* |
| *Vegetation clearance* | *Eg: Wildlife Act Authority Permit 86749-FAU* | *Vegetation identified as potential lizard habitat in Figure 1 of the lizard management plan (LMP)* | * *Prepare LMP.*
* *Permitted herpetologist to be present for removal of identified vegetation.*
* *Native lizards to be relocated by herpetologist to location shown on Figure 1 of LMP.*
 | * *Flora, fauna and habitats (Section 3.2.2)*
* *Lizard management plan (sub-plan)*
 | *Project Environment Manager/Herpetologist* |

# 3.0 Implementation and operation

## 3.1 Environment work planning (including emergency works)

*[Include a specific procedure/plan (or cross reference an existing one) for environment work planning. This procedure should* *detail how the identification and management of environmental risk (alongside safety risk) is undertaken and documented for all new tasks/activities. This should include reviewing the environmental risk register, sensitive sites and permitted activity standards/statutory authority requirements and using existing procedures/mitigation or developing new ones. It should describe how information will be disseminated to site teams etc.*

*This should also include a procedure as to how new statutory authorities will be identified and applied for if required and for identifying and managing emergency works under s330 of the RMA.]*

## 3.2 Operating procedures and sub-plans

*[Include or cross reference to the operational procedures and sub-plans used to avoid, mitigate and manage the environmental risks (section 2.2), sensitives sites (section 2.1) and statutory/consent requirements (including permitted activity standards) (section 2.3), associated with this plan.*

*As set out below, include a project specific sub section for each environmental topic which details the relevant mitigation for the associated environmental risks. This might include the use of existing or new operational procedures or separate sub-plans. Waka Kotahi technical guidance can be found in the* [*Environment and sustainability in our operations*](https://www.nzta.govt.nz/roads-and-rail/highways-information-portal/technical-disciplines/environment-and-sustainability-in-our-operations/z19-taumata-taiao/environmental-screen/) *section of the Waka Kotahi website.*

*Suggestions for environmental topics are detailed below, but should be adapted to meet specific project environmental risks (these include but are not limited to) those included below.]*

### 3.2.1 Air quality

*[Provide project specific context and detail on procedures/sub-plans to mitigate air quality risks (including dust).]*

### 3.2.2 Flora, fauna and habitats (biodiversity)

*[Provide project specific context and detail on procedures/sub-plans to mitigate terrestrial/coastal/wetland ecosystems risks (including pest plants/animals along with biosecurity risks such as kauri dieback), as appropriate.]*

### 3.2.3 Contaminated sites

*[Provide project specific context and detail on procedures/sub-plans to manage contaminated land/sites (new and unknown). An unexpected discovery protocol should also be provided.]*

### 3.2.4 Freshwater quality and ecosystems

*[Provide project specific context and detail on procedures/sub-plans to mitigate freshwater quality/ecology risks. Section should include a section on erosion and sediment controls, if required.]*

### 3.2.5 Hazardous substances

*[Provide project specific context and details on procedures/sub-plan to manage the use and storage of hazardous substances.]*

### 3.2.6 Historic heritage

*[Provide project specific context and procedures/sub-plan to identify archaeological/built heritage sites prior to works starting and associated management controls. An accidental discovery protocol should also be described.]*

### 3.2.7 Landscape and visual

*[Include detail on procedures/sub-plan to mitigate landscape and visual risks.]*

### 3.2.8 Māori cultural values

*[Provide project specific context and detail on measures to manage the risks to Māori cultural values. Iwi consultation is required to inform this section.]*

### 3.2.9 Noise and vibration

*[Provide project specific context and detail on procedures/sub-plan to mitigate noise and vibration risks.]*

### 3.2.10 Resource efficiency and waste minimisation

*[Provide project specific context and detail on procedures/sub-plan to identify waste streams and mitigate potential risks associated with waste production (storage, transport and disposal). This should also include the identification of opportunities to reduce energy and greenhouse gas emissions, increase uptake of recycled materials and alternative materials, reduce use of virgin and high carbon intensity materials, reduce water consumption and reduce waste.]*

## 3.3 Environmental incident response and reporting

*[Include an environmental incident response and reporting procedure or cross reference to an existing one. An environmental incident can be defined as an unplanned event (actual or potential) that results in adverse environmental impacts and may require an immediate response in order to minimise that impact, for example pollution (air, water or land), ecological or archaeological disturbance and/or finds.*

*Environmental incident reporting requirements should also be detailed in section 4.3/table 8]*

## 3.4 Communication, consultation and complaints management

*[Describe stakeholder/engagement and methods (including timeframes) and frequency of communication relevant to this EMP, for example communicating/notifying public, council engagement, iwi liaison.*

*Refer to the CSMP and cross-reference protocols and procedures for engaging and notifying stakeholders, neighbours and the wider community of the environmental impacts of works.*

*Include how complaints will be received/managed (or cross reference to existing CSMP plan/procedure).]*

## 3.5 Training, induction and competencies

*[Use the following table (or cross reference to existing training register) to outline the training and competency assessment that takes place to ensure all staff with environmental responsibilities have the training they need to implement this EMP (including sub-contractors and visitors). This should include induction, toolbox talks and pre-start meetings and any other environmental awareness information disseminated to staff. Detail should be included as to where and how training records are recorded.]*

*Table 6: Training relevant to this EMP*

| Type of training  | Purpose | Convenor | Attendees | When completed |
| --- | --- | --- | --- | --- |
| *For example: Induction*  | *One-off meeting at the start of employment to provide an overview of all procedures and best practice.*  | *Alliance or project management team* | *All staff* | *Upon employment commencing* *Annual refresher* |

# 4.0 Compliance/performance monitoring and reporting

## 4.1 Monitoring

*[Describe a monitoring/inspections procedure and/or programme that includes:*

* *how activities and consents will be monitored to ensure coverage of environmental risk*
* *compliance with all statutory approvals and conditions (refer section 4.2 CS-VUE)*
* *who will undertake monitoring and how often – internal and external (for example council compliance monitoring)*
* *what will be monitored and how it will be recorded*
* *how findings are actioned, closed out and lessons learnt integrated*
* *how and when is monitoring reported internally and externally – refer also section 4.3/table 8 – statutory non-compliances must be reported to Waka Kotahi within 24 hours*
* *linkages to KRAs (M&O contracts only)*
* *how monitoring will link to competencies, such as identifying training needs (refer section 3.5).*

*The table below can be used to summarise different types of monitoring to show the coverage of EMP.]*

*Table 7: Monitoring relevant to this EMP – internal and external*

| Type of monitoring  | Scope of monitoring | By whom? | How often? | Recorded on? | Registered/reported to? |
| --- | --- | --- | --- | --- | --- |
| *For example: HSE check* | *Ad hoc checks of EMP compliance on site (alongside health and safety).* | *HSE Manager* | *Monthly* | *NCR/OFI Form* | *NCR/OFI register* |
| *For example: Consent monitoring* | *Programmed compliance check of consent conditions.* | *CS-VUE Manager* | *Monthly* | *RC Form* | *NCR/OFI register* |

## 4.2 CS-VUE

*[Describe how CS-VUE will be used to manage and monitor all consents and concessions. Include alert settings for CS-VUE. Describe how will this information be fed into the monitoring programme.]*

## 4.3 Reporting

*[Provide a summary of all reporting requirements (internal and external) that are relevant to the project and this EMP.]*

*Table 8: Reports relevant to this EMP*

|  |  |  |  |
| --- | --- | --- | --- |
| Report type | Description | To who? | How often? |
| *Eg: Monthly project Report* | *Includes data on environmental incidents and monitoring findings.* | *Project board* | *Monthly* |
| *Eg: Environmental incident report* | *Report detailing the description of an environmental incident, the cause, mitigation and prevention for reoccurrence.* | *Waka Kotahi and council* | *After an environmental incident has occurred* |
| *Eg: Progress report (waste minimisation and resource efficiency)* |  |  |  |
| *Eg: Council monitoring findings eg, consent non-compliances* |  |  |  |
| *Eg: Key result area (for M&O contracts)* |  |  |  |

## 4.4 Key result area (M&O contracts only)

*[The Key Result Area (KRA) Framework is a contract performance management system that has been developed for M&O contracts. The framework is aligned to the required contract outcomes and the strategic objectives of Waka Kotahi. The framework allows areas of high performance to be acknowledged and rewarded, and any areas of poor performance to be addressed.*

*Describe the process of how the contract will address and record the KRA/key performance indicators (KPI)/measures. The table below can also be used.]*

*Table 9: KRA, KPIs, measures and associated processes*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Key result area | Key performance indicator | Measure | Process | Recorded |
| *Eg: KRA 3 Sustainability* | *Eg: KPI 3.1 Environmental* | *Eg: 3.1.1 Enforcement action* | *Eg: Report the number of enforcement orders (under section 314) and abatement notices (under section 322) of the Resource Management Act 1991 Refer section 4.3 (Reporting).* | *Eg: Council monitoring records kept on Sharepoint* |

# 5.0 EMP audit and review

## 5.1 EMP audits

*[Establish (or cross reference) a plan/programme/procedure for internal audits of the EMP. Procedure shall detail who is involved in the audit and the frequency of the audits, who is responsible for ensuring audit recommendations are undertaken, along with corrective and preventative actions procedure. For M&O contracts this should link to KRAs if appropriate. Include detail of how audits are reported internally and to Waka Kotahi.]*

## 5.2 EMP review

*[Describe the procedure for how, when and by whom the EMP will be updated.*

*EMP review should consider the following:*

* *compliance with the designation and/or consent conditions, the EMP (including site specific plans) and material changes to these plans*
* *any significant changes to construction activities or methods*
* *key changes to roles and responsibilities within the project/contract team*
* *changes in industry best practice standards*
* *changes in legal or other requirements*
* *results of inspections, monitoring and reporting procedures associated with the management of adverse effects during construction*
* *lessons learnt from environmental incidents*
* *comments or recommendations from regulator regarding the EMP and sub-plans*
* *unresolved complaints and any response to complaints and remedial action taken to address the complaint.]*

# Appendix A: Minimum requirements checklist

*[Refer to Appendix A of the* [*EMP guideline*](https://www.nzta.govt.nz/roads-and-rail/highways-information-portal/technical-disciplines/environment-and-sustainability-in-our-operations/z19-taumata-taiao/management-plans/)*]*

# Appendix B: Environmental risk register

*[Download the environmental risk register template from the* [*Environmental management plans*](https://nzta.govt.nz/roads-and-rail/highways-information-portal/technical-disciplines/environment-and-sustainability-in-our-operations/z19-taumata-taiao/management-plans/) *page on the Waka Kotahi website]*