

PART G51
ENVIRONMENTAL MANAGEMENT SYSTEMS

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1. GENERAL

- .1 This Part specifies the requirements for the Contractor's Environmental Management Systems (EMS).
- .2 This Part references the following documents:
 - AS/NZS ISO 14001 Environmental management systems – Requirements with guidance for use
 - DPTI Contractor's Environmental Management Plan Guidelines – Road, Rail and Marine Facilities
 - Part G50 Environmental Management
 - AS/NZS ISO 19011 Guidelines for auditing management systems
 - Part CH10 Construction General Provisions
 - Part CH50 Environmental Protection Issues

2. CONTRACTOR'S ENVIRONMENTAL MANAGEMENT SYSTEM

- .1 The Contractor shall establish, implement and maintain an Environmental Management System (EMS) in accordance with the requirements of AS/NZS ISO 14001 for the duration of this Contract. The Contractor's EMS shall make provision for the work of subcontractors.
- .2 The Contractor shall have a current sustainability management policy endorsed by senior management which covers environmental, social and economic aspects relevant to the Works.
- .3 No part of the Contractor's EMS shall be used to pre-empt, preclude or otherwise negate the technical requirements of the Contract.
- .4 Prior to commencement of any work on Site, the Contractor shall submit a certificate certifying the Contractor's accreditation to AS/NZS ISO 14001 during the duration of the Contract. The Certification must be provided by an appropriately qualified accredited organisation. Provision of the EMS Certification, shall constitute a **HOLD POINT**.

3. CONTRACTOR'S ENVIRONMENTAL MANAGEMENT PLAN

- .1 The Contractor shall establish, implement and maintain a Contractor's Environmental Management Plan (CEMP) which addresses the management of the environmental issues for this Contract. The CEMP shall comply with the DPTI "Contractor's Environmental Management Plan Guidelines", available from: <http://www.dpti.sa.gov.au/standards/environment>.
- .2 The CEMP shall as a minimum include:
 - (a) an environmental risk assessment of all construction activities;
 - (b) the method(s) to ensure the Contractor's work, and the work of its subcontractors, complies with the environmental requirements of this Contract;
 - (c) details of the process for ensuring that the Contractor's personnel and subcontractors understand and meet all environmental requirements of the Contract, including a procedure for conducting environmental inductions;

- (d) Construction Work Method Statements (or similar) for activities identified as moderate risk or above (pre-treatment) in the environmental risk assessment;
 - (e) the approach to inspection and testing to verify compliance with the specified environmental requirements;
 - (f) an environmental audit schedule (refer Clause 8); and
 - (g) details of the Contractor's Activity Zone (including plans or drawings), as well as details of any approved alterations (refer Part CH10 "Construction General Provisions").
- .3 The CEMP and the following associated sub-plans (refer Part CH50 "Environmental Protection Issues") are Controlled Document (refer Part G20 "Quality System Requirements"). The following management plans form part of the CEMP, however may be presented as stand-alone documents:
- (a) Vegetation and Weed Management Plan
 - (b) Soil Erosion and Drainage Management Plan
 - (c) Water Quality Monitoring Plan
 - (d) Construction Noise and Vibration Management Plan (including Night Works Management Plan)
 - (e) Air Quality Management and Monitoring Plan
 - (f) Contamination and Remediation Management Plan
 - (g) Cultural Heritage Management Plan
- .4 Prior to commencement of any work on Site, the Contractor shall submit an electronic controlled copy of the CEMP and associated sub-plans, including all supporting documentation. Provision of the CEMP including any stand-alone Management Plans, and any proposed amendments to the CEMP, and supporting documentation, shall constitute a **HOLD POINT**.
- .5 At a minimum the Contractor's must review and update the the CEMP identifying amendments to the previous version every six months during the Contract period.

4. SUSTAINABILITY MANAGEMENT PLAN

- .1 The Contractor must develop a Sustainability Management Plan. It must, as a minimum:
- (a) provide a commitment/policy to achieving sustainability outcomes on the project;
 - (b) demonstrate how the environmental and sustainability objectives provided in Part G50 "Environmental Management" will or have been implemented in design and construction, including providing the processes which will be applied to implementing the objectives;
 - (c) Provide qualitative and quantitative targets to demonstrate the implementation of the sustainability objectives.
- .2 In addition to the objectives listed above, where the Sustainability Management Plan has been submitted by the Principal, the design and construction methodology shall also incorporate any conditions of the Ecological Sustainable Development acquittal provided by the Water and Climate Change Branch of the Department of Environment, Water and Natural Resources (DEWNR). A response to conditions must be provided in the design report(s).

5. CONTRACTORS PERSONNEL

Environmental Management Representative

- .1 The Contractor shall provide an Environmental Management Representative (EMR) for the duration of the Contract who is directly responsible to the Contractor's senior management and has responsibility for ensuring that the requirements of the Environmental Management System and the environmental requirements of the Contract are complied with.
- .2 At all times, the duties of the EMR in regard to ensuring compliance with the environmental requirements of this Contract shall take precedence over any other activity undertaken by the EMR.
- .3 The EMR shall:
- (a) possess a recognised tertiary environmental qualification and have at least 3 years of recent relevant experience to the position; be available to attend the Site at any time that work is in progress;
 - (b) be on Site whenever activities are in progress that are identified in the CEMP as being of high risk to the environment; and

- (c) possess the skills and knowledge to deliver an environmental induction and training for all persons involved in construction activities;
- .4 Where a Contamination Specialist is not required for the works, as specified by the Principal, the EMR shall possess relevant industry experience in contamination management and remediation.

Contamination Specialist

- .1 The Contractor shall provide a Contamination Specialist on, or eligible for admission to, the DPTI Environmental Services panel. The Contamination Specialist must:
 - (a) be present at the Site whenever work may affect, or be in contact with, contaminated material;
 - (b) possess appropriate tertiary qualifications in environmental management, engineering or similar;
 - (c) have at least 5 years' experience in contamination assessments, management and remediation on projects of similar scale and nature; and
 - (d) be responsible for assessing and implementing all requirements relating to contamination under this Contract.

6. TRAINING AND INDUCTION

Environmental Awareness Training

- .1 Prior to any works commencing on Site, the Contractor shall ensure that at least two of its staff who will be based on Site have attended DPTI Environmental Awareness training or equivalent training within the last 5 years. The Contractor's Site representative / supervisor shall have attended the training. Recognition of equivalent training requires approval from the Principal.
- .2 Information about the DPTI Environmental Awareness training is available from the following web site:
http://www.dpti.sa.gov.au/documents/contractsandtenders/contractor_environmental_training_programs.
- .3 The Contractor shall provide copies of the training certificates to the Principal prior to works commencing on Site and upon request..

Induction

- .1 The Contractor shall ensure that the Contractor's (and any sub-contractor's) personnel attend an environmental induction before they commence work on Site. The induction shall be delivered by the Environmental Management Representative, and shall address all environmental issues that are relevant to the person's activities on Site as identified in the CEMP.
- .2 The Contractor shall provide evidence of environmental inductions content and Contractors to the Principal upon request.

7. MONITORING, AUDITING AND REPORTING

- .1 The Contractor shall monitor its environmental performance, and that of its subcontractors, for the duration of this Contract. Environmental performance shall be measured against the Contractor's EMS and CEMP, and the requirements of this Contract.
- .2 Environmental audits shall be conducted in accordance with AS/NZS ISO 19011: Guidelines for Auditing Management Systems. The Contractor is responsible for ensuring that environmental audits are conducted at intervals of no less than 3 months.
- .3 In addition to the Contractor's own audit schedule, the Contractor shall allow external audits of the Contractor's environmental performance to be undertaken at any time.
- .4 The Contractor shall report six monthly to the Principal on its environmental performance. The Contractor shall document details and results of all environmental inspections and audits.

Inspection Reporting

- .1 The Environmental Management Representative must undertake environmental inspections of the Contractors activities at least weekly. A completed environmental inspection checklist and report must be provided to the Principal weekly. The weekly report must include for that period, as a minimum, summary of:
 - (a) environmental issues identified,
 - (b) environmental incidents,

- (c) non-conformances and corrective actions raised,
- (d) monitoring results and summary report (noise, vibration, water quality, air quality) including any exceedances of related limits/criteria;
- (e) inspection checklists; and
- (f) other relevant data.

Monthly Reports

- .1 The Contractors must submit a monthly status report to the Principal which as a minimum includes:
 - (a) confirmation that the Contractor's Environmental Management System is in accordance with AS 14000 and the requirements of this PAA;
 - (b) status of all Hold Points in Parts G50, G51, G52 and CH50;
 - (c) status of implementation and progress of the Contractors Environmental Management Plan;
 - (d) details and results of all environmental inspections and audits
 - (e) details of any non-conformances / Environmental Incidents and corrective actions taken;
 - (f) details of any positive environmental initiatives undertaken by the Contractors;
 - (g) vegetation impacts (pruning/removals) and measures taken to minimise impacts to remaining vegetation;
 - (h) details of all resource use and waste transfers inclusive of soil disposal and all other waste streams controlled by the Contractors;
 - (i) details of any environmental monitoring /investigations undertaken by the Contractors or other documentation submitted to the Principal;
 - (j) details of environmental audits / inspections.

Quarterly Certificate

- .1 The Environmental Management Representative must prepare a report at intervals not greater than 3 months and immediately prior to Completion, which identifies that:
 - (a) the Contractors Environmental Management System is in accordance with AS/NZS ISO 14000:2016;
 - (b) Subcontractors' Environmental Management Systems, which form a part of the Contractors Environmental Management System, were in accordance with AS/NZS ISO 14000:2016;
 - (c) the Contractors complied with and satisfied the requirements of the Construction Environmental Management Plan with the exception of any non- conformance reports raised during the period (details of NCR's to be provided); and
 - (d) documentation was recorded and submitted to the Principal in accordance with the Specification.
- .2 The report must be forwarded to the Principal and signed by the Environmental Management Representative.

Annual Status Reports

- .1 The Environmental Management Representative must prepare at the end of each financial year until Completion and upon Completion a qualitative and quantitative report for the Works detailing precise quantities of:
 - (a) material consumption (steel, concrete, pavement materials, fill, etc.);
 - (b) energy use (including GreenPower);
 - (c) fuel usage;
 - (d) water usage;
 - (e) materials taken to external facility for recycling;
 - (f) waste and types of waste taken to landfill (including contaminated material);
 - (g) materials won from the site that have been reused or recycled into the works;
 - (h) recycled materials (sourced from an external supplier) used in the works; and

- (i) sustainability opportunities adopted through design and construction and the cost-benefits of incorporating these measures..
- .2 Records of the data must be maintained by the Contractors and be made available to the Principal. The report must include information of the last financial year and cumulative for the project. It must include a summary of the progress against relevant sustainability objectives and targets.

8. HOLD POINTS

.1 The following is a summary of Hold Points referenced in this Part:

CLAUSE REF.	HOLD POINT	RESPONSE TIME
2.4	Contractor's Environmental Management System Certification	3 days
3.3	Contractor's Environmental Management Plan or any proposed amendments, and supporting documentation	10 days