



Contractor



DRAGADOS | AMERICAN BRIDGE INTERNATIONAL  
HOCHTIEF | MORRISON CONSTRUCTION

Project **FORTH REPLACEMENT CROSSING**

Document title

**AREA MANAGEMENT PLAN**

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## 1 INTRODUCTION

1.1.1 This Area Management Plan is the overarching plan for the construction works and includes details on management of the site, including working hours, lighting and security. Within the staff organisation of FCBC (FM-PMG-001 a and b), there are a number of works managers appointed for the various work areas. Works Managers are responsible for implementing the procedures and measures in this plan such that the site facilities are managed, operated, maintained and serviced effectively to reduce disturbance and other environmental impacts associated with day-to-day site activities. The Works Manager positions fulfil the duties of the Site Operation Managers as required in the Code of Construction Practice.

1.1.2 A description of FCBC's Management Structure is contained within Organisational Charts on the PMP and the Roles and structure of FCBC's Environmental Department is contained within the EMP Implementation and Operation. In addition to the EMP, separate procedures will be developed for:

- Green Travel;
- Materials Management;
- CEEQUAL Management; and
- Energy and Carbon Management.



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## 2 WORKING HOURS

- 2.1.1 A site record of working hours is kept by FCBC. Normal working hours for the road building sections of the works are Monday to Friday 0800 to 1900 hours (0800 to 1800 on a Saturday). An additional half-hour start-up period prior to 0800 on weekdays is permitted, allowing FCBC staff to arrive at the site and prepare for the construction works. No heavy plant or machinery will be started within this period or road construction works undertaken.
- 2.1.2 Normal working hours for the construction of the main crossing are Monday to Saturday 0700 to 1900, with a 30 minute start up time between 0700 and 0730 each day, with the same restrictions detailed in 2.1.1 for the road building networks applicable during this period.
- 2.1.3 Within the normal working hours detailed, a half-hour close-down period is included to enable FCBC staff to exit the site. This includes departing from the wider construction site to return to the main site offices.
- 2.1.4 For some marine activities, it is necessary for FCBC to undertake night working and Sunday working. Where such works are necessary, FCBC will follow the process for authorisation for these activities which is covered in the Noise and Vibration Management Plan (NVMP) and by the Plan for the Control of Noise and Vibration (PCNV) process.
- 2.1.5 Such marine works include:
- any works associated with construction of the foundations for the main crossing and approach viaducts within the Firth of Forth;
  - any works required to construct the towers and piers within the Firth of Forth to a reasonable level above the Highest Astronomical Tide to enable construction of the remainder of the towers under normal working hours;
  - any works reliant on the operation of major marine plant; and
  - any other works required within the Firth of Forth, including construction of any platforms required to facilitate construction of the towers or piers above the surface water level of the Firth of Forth.
- 2.1.6 Where FCBC require other works (works other than marine works) to be undertaken at night and on Sundays this will be by prior agreement with the Employer's Representative supported by relevant technical information and the procedures set out in the relevant Environmental Management Plans described in the CEMP, notably the NVMP and PCNV process.

- 2.1.7 Where construction works are permitted to be undertaken out with normal working hours, FCBC provide information regarding these works to the relevant local authorities and adjacent residents (for details on 3rd Party Liaison and Communication see EMP Implementation and Operation). The notification includes an explanation of the construction works to be undertaken, working hours, measures to be implemented to control construction noise, disturbance and details of the enquiries and complaints procedure.
- 2.1.8 Certain 'exceptional works' may be required out with normal working hours. Exceptional works are works which it would not be reasonably practicable to undertake during normal working hours and may include:
- construction works which are required in response to an emergency;
  - construction works which are required as directed by the Police or other emergency services;
  - construction works being undertaken as normal works which could give rise to any damage, be unsafe or be detrimental to the integrity of the works if they were not completed; and
  - servicing of plant essential to maintain safe operation of the site (not including routine maintenance)
- 2.1.9 FCBC will notify the Employer's Representative and the relevant local authority, together with the relevant navigation or harbour authority, Network Rail or Statutory Undertakers, as appropriate, of any exceptional works that are necessary as soon as possible.



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### 3 CONSTRUCTION SITE LAYOUT AND APPEARANCE, INCLUDING SITE COMPOUNDS

- 3.1.1 This section of the Area Management Plan sets out the procedures to be implemented to manage the site in accordance with a 'good housekeeping' policy and best practice.
- 3.1.2 The Site Operations Managers are responsible for site facilities and implementing the procedures and reasonable precautions set out in the Area Management Plan such that the site facilities are managed, operated, maintained and serviced effectively to reduce disturbance and other environmental impacts associated with day-to-day site activities.
- 3.1.3 Details of the Ferrytoll and the Echline Compounds are included in the Surface Water Management Plan. Another FCBC site office is Admiralty House.
- 3.1.4 FCBC provide car parking facilities for construction vehicles and those of construction workers at each site office and compound (plans of these are included in the Incident Response Plan). Monitoring any problems associated with over-parking on residential streets and wider issues of vehicular access are covered in site specific Traffic Management Plans.
- 3.1.5 The project is managed from the main compound located at Ferrytoll in Rosyth. There are additional, smaller compounds located in the Port of Rosyth (marine works), Admirals House (Northern networks) and in Echline Field (Southern networks). The site's compound addresses are listed in Table 1 below:

**Table 1: Site compound addresses**

<p>Main Project Office King Malcolm Drive Rosyth KY11 2DY (Access from King Malcolm Drive)</p>	<p><del>Marine Office (Marine Works)</del> <del>Exmouth Building,</del> Rosyth KY11 2XP (Access via the Port of Rosyth)</p>
<p>Echline Compound (South Works) 50 Builyeon Road South Queensferry EH30 9WJ</p>	<p>Admirals House (North Works) Hope View Fife KY11 2DY</p>

3.1.6 The layout, appearance and operation of the construction site, site offices and compounds are managed, taking into consideration the following:

- The site office and compound layouts ensure that construction vehicles and pedestrian movements are segregated.
- All working areas are kept in a clean and tidy condition.
- Smoking areas at site offices/compounds or work sites are equipped with containers for smoking waste and are located away from the boundary of working areas and adjacent to neighbouring land.
- All necessary measures are taken to ensure the risk of fire is minimised, including the development of a Fire Safety Plan, and the contractor ensures compliance with the requirements of the local fire authority.
- Radios (other than two-way radios for the purposes of communication related to the works) and other forms of audio equipment with loudspeakers are not operated on any work site, unless it is related to the construction works being undertaken.
- Workers maintain a reasonable and appropriate standard of dress at all times and do not use foul language or display lewd or derogatory behaviour.
- Appropriate measures, such as use of enclosed containers, are employed to store waste susceptible to spreading by wind or liable to cause litter.
- Rubbish is removed at frequent intervals and the site kept clean and tidy.
- Fencing and hoardings are inspected daily, repaired and repainted as necessary.
- Adequate welfare facilities are provided for all construction staff. All toilets are serviced and kept clean.
- Food waste is removed frequently, (refer to the FCBC Waste Management Plan).
- Good personal hygiene is promoted by the contractor for the workforce, particularly when using site canteens or mess facilities.
- Site accesses, accesses to site offices/compounds and roads in the vicinity of site access points are maintained clean as required.
- Noise and vibration issues are covered in the Noise and Vibration Management Plan.
- No open fires are permitted.
- Wheel washes are located at live site access points where required to keep roads and accesses clean. The wheel washes are currently located as shown on Table 2. For all other dust, odours and air pollution refer to FCBC Dust and Air Quality Management Plan.



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- The requirements of the CoCP relating to the handling, storage and disposal of
- materials are in the FCBC Waste Management Plan and Dust and Air Quality Management Plan.
- Appropriate management and disposal of foul water and sewage (see FCBC Waste Management Plan).

**Table 2:** Location of wheel washes, July 2014.

Location	Site Entrance
South Compound	Main entrance from A904
North Abutment	Access 1A from B981

#### **4 LAND MADE AVAILABLE, FENCING AND HOARDING**

- 4.1.1 Prior to the start of construction, FCBC accurately identified the land area to be occupied by the construction works. FCBC may require additional land to the land made available by the Scottish Ministers to facilitate their own construction methods for the Project. This will be subject to obtaining the necessary approvals and consultation with Local Authorities and other Statutory Bodies.
- 4.1.2 Where FCBC proposes to make additional land available to facilitate their construction methods for the Project, an environmental assessment of the use of this land will be undertaken to ensure any impacts due to construction are in line with those described in the Environmental Statement, and enable appropriate mitigation measures to be implemented.
- 4.1.3 The additional land required at the Port of Rosyth (which comprised existing harbour facilities) has been subject to a ground investigation to ensure that the land is returned in a condition no worse than prior to occupation.
- 4.1.4 Where required, FCBC undertake joint surveys of any land made available temporarily by the Scottish Ministers with the relevant landowner, or their representative, to record the condition of the land prior to entry to the land being taken. A photographic and video record of the condition of the land is taken by FCBC.
- 4.1.5 FCBC have liaised with the relevant roads authority regarding condition surveys for public roads and any remedial works necessary as a consequence of the works.

4.1.6 FCBC have fenced off active working areas adequately from members of the public and to prevent animals from straying into working areas. Fencing and hoarding installation considers the following:

- Maintaining adequate site security. FCBC have undertaken an assessment as part of the design process for fencing and/or hoardings.
- The location of the construction site, use of adjacent land and risk of the public trying to seek unauthorised entry to the site.
- The nature of the construction activities to be undertaken.
- Specific mitigation associated with site fencing and security to comply with the Environmental Statement, CoCP and discipline management plans.
- Hoardings include noise-attenuating structures as appropriate, see Noise and Vibration Management Plan.
- Gates or access points in the site boundaries, fencing or hoardings, are positioned and constructed to mitigate the effects of noise transmitted from the site to nearby noise sensitive properties, as described in the Environmental Statement, subject to ensuring the safety of public or the safe operation of the construction site or works. See Noise and Vibration Management Plan.
- The location and design of site boundaries, hoardings and temporary structures on or adjacent to public roads maintain adequate visibility at junctions and forward visibility on roads to levels acceptable to the relevant roads authority.
- Where hoardings may affect visibility on pedestrian routes, FCBC will provide bulkhead lights and these will be illuminated in times of darkness. Lighting will be inspected and maintained on a regular basis by FCBC. At present these measures are not necessary. If this changes FCBC will update the plan as necessary.
- Where used, FCBC will paint hoardings on the side facing away from the working area in a colour and style approved by the Employer's Representative. Viewing panes will be provided in hoardings to allow the public to see the works, subject to them not diminishing the efficiency of the hoardings with regard to security and noise attenuation or their use leading to the creation of hazards or obstructions on public roads or footpaths. At present these measures are not necessary along any public road or footpath. If this changes FCBC will update the plan as necessary. See Noise and Vibration Management Plan.
- FCBC do not display or allow to be displayed any advertisement or notice and the like, including illicit bill or fly posting on any hoardings. All graffiti, fly posting or defacement to hoardings will be removed and made good within 48 hours of discovery.
- Provision of temporary fencing required by the Forth Crossing Act 2011, Commitments and Undertakings.

- 4.1.7 Information boards have been erected by FCBC at prominent positions at each working area, including site accesses, offices and compounds, to provide information on the work programme and estimated duration of the overall works in the area, together with the Project website address and relevant contact details for the Enquiries and Complaints Procedure.
- 4.1.8 FCBC will remove all temporary fencing and hoarding following completion of work and following consideration for any on-going need to retain fencing and hoarding.
- 4.1.9 FCBC will seek to minimise the area of land used for the Project. If any land is deemed surplus to requirements following construction of the Project, the Scottish Ministers will seek to dispose of this land in accordance with normal procedures.

## 5 USE OF ARTIFICIAL LIGHTING

- 5.1.1 Site lighting is required in a number of different locations across various timescales. These include:
- Provision of background lighting for contractor's offices or compounds, for security and safe movement of staff during winter mornings and evenings.
  - Provision of temporary road lighting along temporary access roads.
  - Provision of bulkhead lighting for pedestrian walkways
  - Provision of temporary road lighting to maintain at least an equivalent level of lighting where there is existing lighting in place prior to construction.
  - Provision of temporary road lighting where there is currently no lighting but lighting is required as a safety measure under temporary traffic management, for example at carriageway cross-overs and where temporary access roads cross existing public roads.
  - Provision of task lighting required for night time activities or winter afternoon activities, such as installation of bridge beams.
  - Provision of navigation warning lights to safely identify plant and construction within the Firth of Forth.
  - Provision of aircraft warning lights to safely identify the main towers and construction plant or apparatus.
- 5.1.2 Prior to the commencement of the towers, FCBC will consult with the airport operator of Edinburgh Airport regarding any construction activities which may affect the airport controlled airspace and the use of appropriate lighting or other warning measures to be implemented. FCBC have consulted and will continue to consult with Edinburgh Airport regarding construction in airport controlled space.
- 5.1.3 FCBC have taken the following requirements into consideration in relation to the provision of temporary lighting:



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- The lighting design seeks to reduce visual intrusion and light spillage, including avoiding unnecessary use of lighting, at nearby residential properties and sites of ecological interest, insofar as is consistent with the safe and efficient operation of the construction site.
- Where necessary, lighting to site boundaries has been provided with illuminations sufficient for the safety of the passing public.
- Lighting has been positioned and directed to reduce nuisance to residents and avoid creating distractions or confusion to passing drivers on adjacent public roads and railways.
- Where necessary, lighting at locations where the road layout is to be changed will be provided by early commissioning of permanent new lighting where feasible or by provision of mobile lighting towers or use of columns in temporary locations.
- Special consideration of lighting requirements is required in the vicinity of Edinburgh Airport and the existing rail network and the contractor will agree lighting requirements with the relevant authorities prior to the commencement of works which may affect their areas of responsibility.
- So far as reasonably practicable, all power to temporary traffic signals or lighting is taken from mains supplies rather than from portable generators.

5.1.4 FCBC take reasonable precautions in accordance with the Scottish Government Guidance: Controlling Light Pollution and Reducing Lighting Energy Consumption insofar as it is applicable to use of lighting associated with the construction works

5.1.5 FCBC comply with the requirements of the relevant roads authority with regards to temporary lighting on or adjacent to public roads.

5.1.6 FCBC comply with the requirements of the Environmental Protection Act 1990, as amended, with regards to preventing or counteracting the effects of any nuisance due to artificial lighting

## **6 LIVING ACCOMMODATION**

6.1.1 FCBC understand that no living accommodation is permitted on land made available by the Scottish Ministers for the Project or on the construction site, except with the approval of the relevant local authority and/or the Employer's Representative as appropriate. Approval will be sought for living accommodation exclusively for security staff and small numbers of personnel that are required to be onsite for 24hrs. Mess rooms, locker rooms, welfare facilities and showers have been permitted at all site compounds.

## **7 PEST CONTROL PROCEDURES**

- 7.1.1 FCBC have implemented adequate arrangements for the disposal of food waste or other material attractive to pests or vermin to control the risk of infestation. If infestation occurs the FCBC will take such actions as is necessary to deal with it, as required by the relevant local authority.

## **8 SITE SECURITY PROCEDURES**

- 8.1.1 FCBC are responsible for the security of the construction site and have established security measures to protect the public and prevent unauthorised entry to or exit from the site. FCBC close and lock site gates when there is no site activity and implement site security measures.
- 8.1.2 FCBC have provided security cameras to maintain the security of the site and safety of the public. Where security cameras are used, they are placed in locations which do not cause offence or unduly infringe upon the privacy of local residents.

## **9 REQUIREMENTS FOR CLEARANCE OF THE CONSTRUCTION SITE ON COMPLETION OF THE CONSTRUCTION WORKS**

- 9.1.1 FCBC will clear and clean all working areas as work proceeds and when no longer required for the carrying out of construction works. This will also include areas adjacent to the site which may be required to be cleared or cleaned due to construction activities and site accesses and roads in the vicinity of site access points.
- 9.1.2 Where land has been made available by the Scottish Ministers on a temporary basis for construction of the Project, FCBC will reinstate this land in accordance with the provisions in the Forth Crossing Bill prior to it being returned to the relevant landowner (also refer to the Agricultural Management Plan).

## **10 CONSENTS AND LICENSES**

- 10.1.1 FCBC maintain a Consents Register which documents all consent requirements and records all applications made and the status of the applications. Currently, the consents register includes the following-
- Ghost licences for marine works.
  - Abstraction authorisations for dampening down on both sides of the estuary.
  - CAR licence for Queensferry cutting.
  - Abstraction authorisations for works in estuary.
  - Form H consent for sewage discharge from Ferry Toll compound.
  - PPC Permit for operation of the concrete batching plant.
  - Various ecological licences.



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## **11 NOTICE OF INTENDED COMMENCEMENT OF WORKS**

11.1.1 Notification of the intended commencement of the works was provided to the relevant local planning authorities by the Employer in accordance with the requirements of Sections 27A to 27C of the Town and Country Planning (Scotland) Act 1997 which were inserted by section 6(1) of the Planning etc. (Scotland) Act 2006. Notification of the completion of construction works will also be provided.

## **12 MONITORING**

12.1.1 The FCBC Site Works Managers for each part of the site will be responsible for implementing the procedures in this plan and will undertake monitoring to ensure implementation to best practice standards.

12.1.2 To ensure compliance with this management plan and the CoCP, regular environmental inspections in addition to compliance audits will be undertaken.