# D. Event and Action Plan for Air Quality, Noise, Water Quality and Landscape & **Visual**

### Air Quality

Event	Action				
	ET Leader	IEC	ER	Contractor	
Action Level					
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures.     Inform IEC and ER.     Repeat measurement to confirm finding.     Increase monitoring frequency to daily.	Check monitoring data submitted by ET.     Check Contractor's working method.	Notify Contractor.	Rectify any unacceptable practice.     Amend working methods if appropriate.	
Exceedance for two or more consecutive samples	1. Identify the source. 2. Inform IEC and ER. 3. Advise ER on the effectiveness of the proposed remedial measures 4. Repeat measurements to confirm findings. 5. Increase monitoring frequency to daily. 6. Discuss with IEC and the Contractor on remedial actions required. 7. If exceedance continues, arrange meeting with IEC and ER. 8. If exceedance stops, cease additional monitoring.	<ol> <li>Check monitoring data submitted by ET.</li> <li>Check the Contractor's working method.</li> <li>Discuss with ET Leader and the Contractor on possible remedial measures.</li> <li>Advise ER on the effectiveness of the proposed remedial measures.</li> <li>Supervise implementation of remedial measures.</li> </ol>	1. Confirm receipt of notification of exceedance in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented.	<ol> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Amend proposal if appropriate.</li> </ol>	
Limit Level					
Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures.</li> <li>Inform ER and EPD.</li> <li>Repeat measurement to confirm finding.</li> <li>Increase monitoring frequency to daily.</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET.</li> <li>Check the Contractor's working method.</li> <li>Discuss with ET Leader and the Contractor on possible remedial measures.</li> <li>Advise ER on the effectiveness of the proposed remedial measures.</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing.</li> <li>Notify the Contractor.</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance.</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Amend proposal if appropriate.</li> </ol>	

Event	Action			
	ET Leader	IEC	ER	Contractor
Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, EPD and the Contractor.</li> <li>Identify the source.</li> <li>Repeat measurements to confirm findings.</li> <li>Increase monitoring frequency to daily.</li> <li>Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented.</li> <li>Arrange meeting IEC and ER to discuss the remedial actions to be taken.</li> <li>Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	1. Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary and advise ER accordingly. 3. Supervise the implementation of remedial measures.	<ol> <li>Confirm receipt of notification of exceedance in writing.</li> <li>Notify the Contractor.</li> <li>In consultation with IEC, agree with the remedial measures to be implemented.</li> <li>Ensure remedial measures are properly implemented.</li> <li>If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance.</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification.</li> <li>Implement the agreed proposals.</li> <li>Resubmit proposals if problem still not under control.</li> <li>Stop the relevant activity of works as determined by ER until the exceedance is abated.</li> </ol>

### **Construction Noise**

Event	Action	Action				
	ET Leader	IEC	ER	Contractor		
Action Level	<ol> <li>Notify IEC and the Contractor.</li> <li>Carry out investigation.</li> <li>Report the results of investigation to IEC and the Contractor.</li> <li>Discuss with the Contractor and formulate remedial measures.</li> <li>Increase monitoring frequency to check mitigation measures.</li> </ol>	<ol> <li>Review with analysed results submitted by ET.</li> <li>Review the proposed remedial measures by the Contractor and advise ER accordingly.</li> <li>Supervise the implement of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing.</li> <li>Notify the Contractor.</li> <li>Require the Contractor to propose remedial measures for the analysed noise problem.</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	Submit noise mitigation proposals to IEC.     Implement noise mitigation proposals.		
Limit Level	1. Identify the source. 2. Notify IEC, ER, EPD and the Contractor. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform IEC, ER, and EPD the causes & actions taken for the exceedances. 7. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions.  2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly.  3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.		

#### **Water Quality**

Event	Action				
	ET Leader	IEC	ER	Contractor	
Action Level					
Exceedance for one sample	1. Repeat in-situ measurement to confirm finding; 2. Identify source(s) of impact; 3. Inform IEC and Contractor; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC and Contractor; and 6. Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures;     Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and     Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC on the proposed mitigation measures; and     Make agreement on the mitigation measures to be implemented.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with ET and IEC and propose mitigation measures to IEC and ER; and 6. Implement the agreed mitigation measures.	

6. Ensure mitigation

7. Increase the monitoring frequency to daily until no exceedance of Limit level.

measures are implemented; and

working days; and 6. Implement the agreed

mitigation measures.

#### **Event Action ET Leader IEC ER** Contractor 1. Discuss with IEC on the 2. Exceedance for 1. Repeat in-situ 1. Discuss with ET and 1. Inform the Engineer and two or more measurement to confirm Contractor on the proposed mitigation confirm notification of the consecutive finding; mitigation measures; non-compliance in samples measures: writing: 2. Identify source(s) of 2. Make agreement on the 2. Review proposals mitigation measures to 2. Rectify unacceptable impact: on mitigation be implemented; and practice; 3. Inform IEC and measures submitted 3. Assess the 3. Check all plant and Contractor; by Contractor and effectiveness of the equipment; 4. Check monitoring data, all advise the ER implemented mitigation plant, equipment and 4. Consider changes of accordingly; and Contractor's working measures. working methods; 3. Assess the methods: 5. Discuss with ET and IEC effectiveness of the 5. Discuss mitigation and propose mitigation implemented measures with IEC and measures to IEC and ER mitigation within 3 working days; Contractor; measures. 6. Ensure mitigation and measures are 6. Implement the agreed implemented; mitigation measures. 7. Prepare to increase the monitoring frequency to daily; and 8. Repeat measurement on next day of exceedance. **Limit Level** 1. Exceedance for 1. Repeat in-situ 1. Discuss with ET and 1. Discuss with IEC, ET 1. Inform the Engineer and one sample measurement to confirm Contractor on the and Contractor on the confirm notification of the finding; mitigation proposed mitigation non-compliance in measures; measures; and writing; 2. Identify source(s) of impact; 2. Review proposals 2. Request Contractor to 2. Rectify unacceptable on mitigation critically review the practice; 3. Inform IEC, Contractor measures submitted working methods; and EPD; 3. Check all plant and by Contractor and 3. Make agreement on the equipment: 4. Check monitoring data, all advise the ER mitigation measures to 4. Consider changes of plant, equipment and accordingly; and be implemented; and Contractor's working working methods; 3. Assess the 4. Assess the 5. Discuss with ET and IEC effectiveness of the 5. Discuss mitigation effectiveness of the and ER and propose implemented implemented mitigation measures with IEC, ER mitigation measures to mitigation measures. IEC and ER within 3 and Contractor: measures.

Event	Action			
	ET Leader	IEC	ER	Contractor
Exceedance for two or more consecutive samples	<ol> <li>Repeat in-situ measurement to confirm finding;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented; and</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</li> </ol>	Discuss with ET and Contractor on the mitigation measures;     Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; and     Assess the effectiveness of the implemented mitigation measures.	<ol> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures; and</li> <li>Request Contractor to critically review the working methods;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Assess the effectiveness of the implemented mitigation measures; and</li> <li>Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.</li> </ol>	<ol> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET and IEC and ER and propose mitigation measures to IEC and ER within 3 working days;</li> <li>Implement the agreed mitigation measures; and</li> <li>As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities.</li> </ol>

## Landscape and Visual

Event	Action			
	ET Leader	IEC	ER	Contractor
Action Level				
Non-conformity on one occasion	1. Identify Source; 2. Inform the IEC and the ER; 3. Discuss remedial actions with the IEC, the ER and the Contractor; and 4. Monitor remedial actions until rectification has been completed.	1. Check report; 2. Check the     Contractor's     working method; 3. Discuss with the ES     and the contractor     on possible     remedial measures; 4. Advise the ER on     effectiveness of     proposed remedial     measures; and 5. Check     implementation of     remedial measures.	Notify Contractor; and     Ensure remedial measures are properly implemented	Amend working methods; and     Rectify damage and undertake any necessary replacement

monitoring.

#### **Event Action** Repeated Non-1. Identify Source; 1. Check monitoring 1. Notify the Contractor; 1. Amend working methods; conformity report; and and 2. Inform the Project Proponent, IEC and the 2. Check the 2. Ensure remedial 2. Rectify damage and ER. If serious nonundertake any necessary Contractor's measures are properly compliance inform EPD; working method; implemented. replacement. 3. Increase monitoring 3. Discuss with the ES and the Contractor frequency; on possible 4. Discuss remedial actions with the IEC, the ER and remedial measures; 4. Advise the ER on the Contractor; 5. Monitor remedial actions effectiveness of proposed remedial until rectification has been completed; and measures; and 5. Supervise 6. If exceedance stops, implementation of cease additional

remedial measures.