

# Appendix C

## Tunnel Dewatering TARP

# TRIGGER ACTION RESPONSE PLAN

## TARP 004 DEVCO Settling Pond Water Discharge

Abbreviations

AMEC: AMEC Earth and Environmental CLC: Community Liaison Committee COO: Chief Operating Officer  
TARP: Trigger Action Response Plan TSS: Total Suspended Solids XC: Xstrata Coal



Responsibility	Normal Status	TARP 1	TARP 2	TARP 3
	<p>pH &gt; 7.0 but &lt; 8.5. TSS &lt; 5 mg/L above background. Water discharge leaving no visual evidence in Schooner Cove.</p>	<p>pH &gt; 6.5 but &lt; 7.5 or pH &gt; 8.5 but &lt; 9.0. TSS &gt; 5 mg/L but &lt; 15 mg/L above background. Water discharge leaving no visual evidence in Schooner Cove</p>	<p>pH &gt; 9.0 or &lt; 6.5. TSS &gt; 15 mg/L but &lt; 25 mg/L above background Water discharge leaving no visual evidence in Schooner Cove</p>	<p>pH &lt; 4.5 Beach Staining TSS &gt; 25 mg/L above background Evidence of Fish Kill in DEVCO pond or staining.</p>
Operators and Shift Supervisor	<p>Normal pumping operations. Check TARP board each shift.  Inspect water discharge system on a shift basis and fill out appropriate report regards physical condition of ranges and water appearance  Ensure actions do not directly or indirectly adversely effect water quality from the tunnels</p>	<p>Normal pumping operations. Check TARP board each shift.  Inspect water discharge system on a shift basis and fill out appropriate report regards physical condition of ranges and water appearance  Ensure actions do not directly or indirectly adversely effect water quality from the tunnels</p>	<p>Normal pumping operations to new pumping plan. Check TARP board each shift.  Inspect water discharge system on a shift basis and fill out appropriate report regards physical condition of ranges and water appearance  Ensure actions do not directly or indirectly adversely effect water quality from the tunnels</p>	<p>Shutdown pumps Close 2 x 12" valves from DEVCO pond exit point Immediately advise Project Manager Arrange alternate labour deployment Assist in recovery of situation as directed. Note TARP 3 on TARP Board</p>
Environmental Consultant	<p>Normal Operations. Monitoring to Water Discharge Monitoring Plan looking for negative trends Monitoring results to CLC on Monthly basis and displayed on site. Ensure independent Water analysis from AMEC Establish background levels before commencing of pumping activities. Inspect sampling and monitoring technique for adequacy.</p>	<p>Note TARP 1 on TARP board-sign. Tool Box Talk with crew re: TARP status. Review sample frequency and offer revised Monitoring Frequency as per Water Discharge Monitoring Plan. Understand drivers to increase and recommend actions to return to TARP normal status</p>	<p>Note TARP 2 on TARP board-sign. Inspect sampling and monitoring technique. Compare results to previously recorded data. Establish trends. Develop formal plan to enable return to TARP normal status and assist in the plan's implementation.</p>	<p>Note TARP 3 on TARP board-sign. Implement the recovery plan as designed by the Project Management Team. Contribute to Tool Box Talk on situation and recovery options.</p>

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**TRIGGER ACTION RESPONSE PLAN**



## TARP 004 DEVCO Settling Pond

Responsibility	Normal Status	TARP 1	TARP 2	TARP 3
Project Manager	<p><b>pH &gt; 6.0 but &lt; 7.5.</b>  <b>TSS &lt; 10 mg/L</b> above background.                      Water discharge leaving no visual evidence in Schooner Cove.</p>	<p><b>pH &gt; 7.5 but &lt; 8.0.</b>  <b>TSS &gt; 10mg/L but &lt; 15 mg/L</b> above background.                      Water discharge leaving no visual evidence in Schooner Cove</p>	<p><b>pH &gt; 8.0 &lt; 8.5.</b>  <b>TSS &gt; 15 mg/L but &lt; 20 mg/L</b> above background                      Water discharge leaving no visual evidence in Schooner Cove</p>	<p><b>pH &gt; 8.5</b>                      Beach Staining                      TSS &gt; 25 mg/L above background                      Evidence of Fish Kill in DEVCO pond</p>
	<p>Normal Operations.                      Ensure Training is given to understand this TARP.                      Remove non active TARPS from TARP board.                      Ensure monthly monitoring results are made available to XC and CLC</p>	<p>Discuss issue with Environmental Consultant, identify trends and discuss options for recovery.</p>	<p>Develop a reduced pumping Plan                      Implement formal plan as detailed by the Environmental Consultant in consultation with XC Environment and Community Manager                      Inform COO Americas of situation and advise of corrective actions being taken.</p>	<p>Immediately inform COO Americas, XC Environmental and Community Manager and organise for media support via MT&amp;L.                      Facilitate Incident Management Team to develop recovery plan.                      Organise additional expertise as needed.                      Inform Regulator of event.                      Tool Box Talk to men on situation and recovery options.</p>