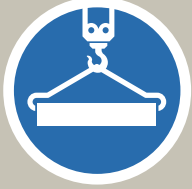







# ANNACIS ISLAND WASTEWATER TREATMENT PLANT UPGRADES AND NEW OUTFALL PIPE

JANUARY 2020


Metro Vancouver is upgrading the region's largest wastewater treatment plant. Treatment plant upgrades include:


 <p>Building a new outfall pipe to carry treated wastewater to the Fraser River</p>	 <p>Increasing the size of the plant and its ability to treat more wastewater</p>	 <p>Repairing or replacing older parts of the existing plant</p>	 <p>Strengthening the plant to reduce the impacts of an earthquake</p>	 <p>Improving existing odour controls</p>	 <p>Building a more reliable back up power source</p>
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### MITIGATION MEASURES

 <p>Imaging sonar surveys to note nearby sturgeon</p>	 <p>'Soft start' to deter nearby fish</p>	 <p>Stop work when marine mammals are within 50 metres, and a 30-minute check before work restarts</p>	 <p>Environmental Protection Plan</p>
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### SHORELINE HABITAT

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Construction vessels launched from piers to minimize shoreline impacts
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Migratory bird survey conducted April 1 to August 31 to protect active nests
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Tunnel Boring Machine construction to eliminate shoreline disturbance

### RIVER USERS

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Navigation Protection Plan
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Establish a Marine Users Group
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Weekly shipping advisories to marine users
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Stand-by tug to provide added safety
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Marine Construction Operations Plan

### FISH HABITAT AND RIVER ENVIRONMENT

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Temporary sheet-pile cofferdam to contain in-river impacts related to river riser construction
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Open-water pH monitoring around cofferdam

### ARCHAEOLOGY

  
 Archaeological Overview Assessment (AOA) conducted to help inform best location for new outfall

