
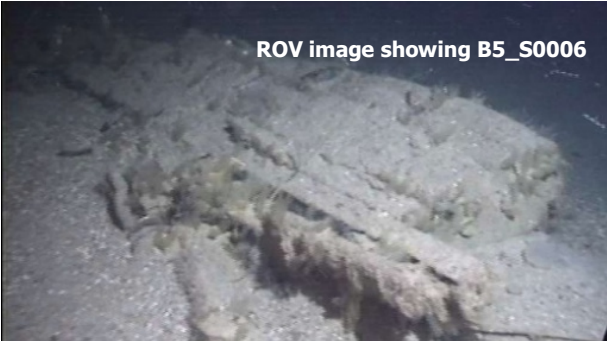
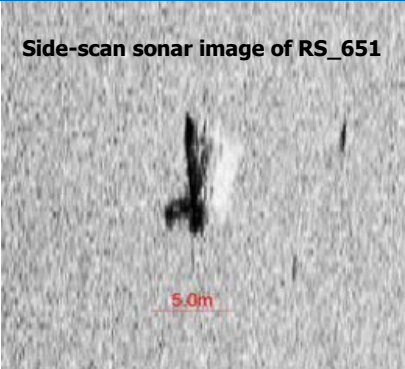



Appendix 16.2: Inventory of Marine Cultural Heritage

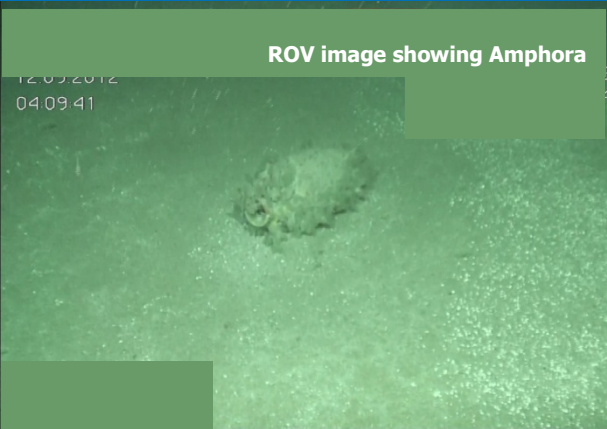

Table A16.2.1: Marine CHOs within 150 m of Pipeline Route

Site No.	Dating	Description	Designation	Image
RU-MCH-001	Modern period (20th century)	<p>A portion of an aircraft wing with an integrated fuel reservoir at a depth of 78 m on the continental shelf. The object measures 6 m-long by 2 m-wide, and appears to be primarily constructed of metal. The site lies 56.7 m west of proposed Pipeline #3.</p> <p>Original designation: acoustic target B5_S0006.</p>	<p>Presently unknown.</p> <p>Not believed to be registered with the Ministry of Culture (MoC).</p>	<p>Side-scan sonar image of B5_S0006</p>  <p>ROV image showing B5_S0006</p> 

Continued...

Site No.	Dating	Description	Designation	Image
RU-MCH-002	Modern period (20th century)	<p>Metal component from either a marine vessel or an aircraft (possibly a wing) at a depth of 1578 m on the continental slope. It measures 7.5 m-long by 2.8 m-wide, rises 0.6 m off the seafloor, and appears to be primarily constructed of metal. The site lies 123.4 m east of proposed Pipeline #1.</p> <p>Original designation: acoustic target RS_651.</p>	<p>Presently unknown.</p> <p>Not believed to be registered with the MoC.</p>	<div> Side-scan sonar image of RS_651  </div> <div>  ROV image showing RS_651 </div>

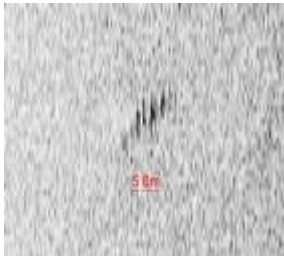
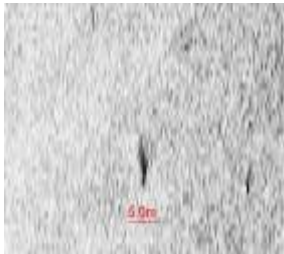
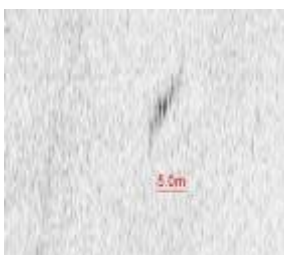
Continued...

Site No.	Dating	Description	Designation	Image
RU-MCH-003	Medieval period (4th to 15th century AD)	<p>Single ceramic amphora that lies at a depth of 72 m on the continental shelf. Appears to be an isolated find, as there are no other associated objects or materials in the immediate vicinity of the amphora. A determination on the exact cultural affiliation could not be made from the available data. The find is 23.9 m east of proposed Pipeline #3.</p> <p>Original designation: ROV Find_Amphora.</p>	<p>Presently unknown.</p> <p>Not believed to be registered with the MoC.</p>	 <p>ROV image showing Amphora</p> <p>12/09/2012 04:09:41</p>
RU-MCH-004	Medieval to post-medieval period (13th to 19th century)	<p>Wooden shipwreck that lies at a depth of 442.8 m on the continental slope. The wreck is mostly buried and only one end of the vessel protrudes of the seabed. A determination on the exact cultural affiliation or age could not be made from the available data. The site is 69.7 m west of proposed Pipeline #1.</p> <p>Original designation: ROV Find_Wreck.</p>	<p>Presently unknown</p> <p>Not believed to be registered with the MoC.</p>	 <p>ROV image showing Buried Wreck</p> <p>South Stream</p>


* This area is defined as within 150 m of the nearest pipeline centreline of Proposed Pipeline Route #300512.

Complete.

Table A16.2.2: Potential Marine CHOs Within 150 m of Pipeline Route*

Target Name	X (LCC)	Y (LCC)	Region	Description	Height (m)	Length (m)	Width (m)	Sonar Image
R-B1-0029	184584.3557	51282.52028	Abyssal plain	Potential CHO	1.1	8.9	5.0	
R-B1-0042	195889.7299	61452.12107	Abyssal plain	Potential CHO	0.5	6.2	2.1	
R-B2-0007	206826.9857	71258.17029	Abyssal plain	Potential shipwreck	0.2	10.2	3.1	

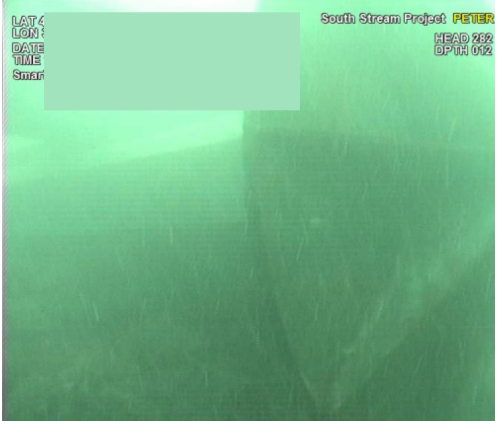
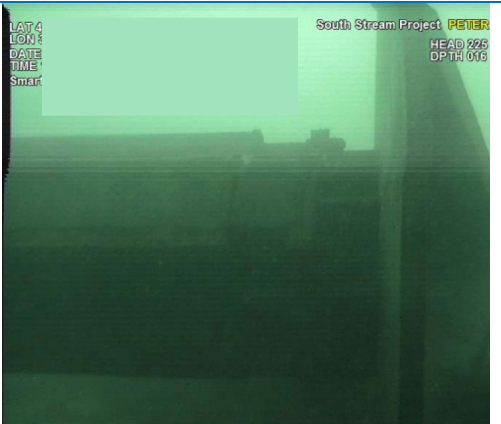
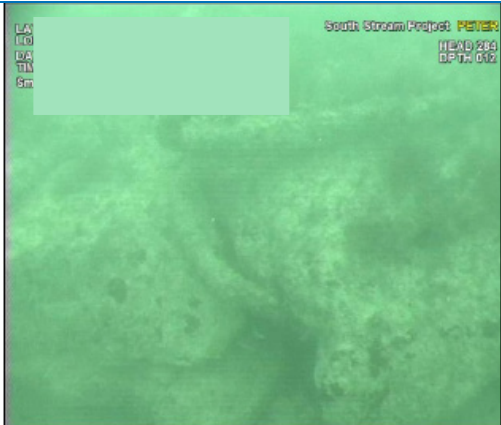
Continued...

Target Name	X (LCC)	Y (LCC)	Region	Description	Height (m)	Length (m)	Width (m)	Sonar Image
R-B5-0006	262318.4839	120525.2949	Abyssal plain	Potential CHO	0.5	5.8	1.2	




* This area is defined as within 150 m of the nearest pipeline centreline

Complete.


Table A16.2.3: Magnetic Targets within 150 m of Pipeline Route*

Target Name	Region	Description	ROV Image
Add1	Nearshore	Metal structure	
Add2	Nearshore	Metal structure	
MNS_24/ MNS_12	Nearshore	Drag anchor	

Continued...

Target Name	Region	Description	ROV Image
MNS_36	Nearshore	Four-fluked anchor	
MNS_40/ MNS_37	Nearshore	Anchor chain link with anchor ring	
RS_883	Continental slope	Anchor chain	

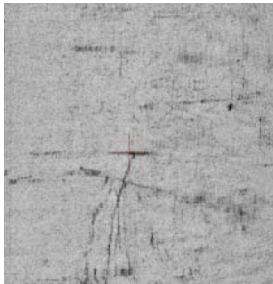
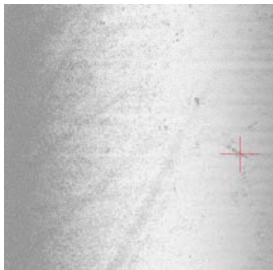
Continued...

Target Name	Region	Description	ROV Image
RS_885	Continental slope	Wooden rod	

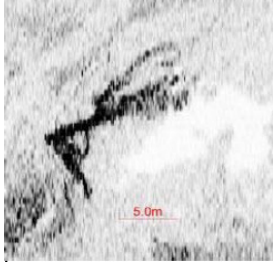
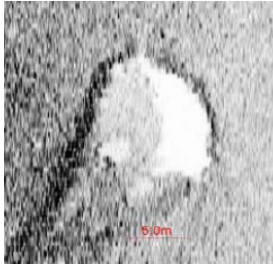
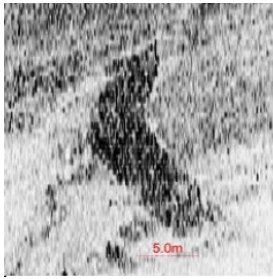
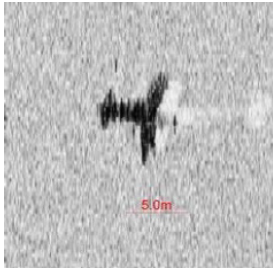
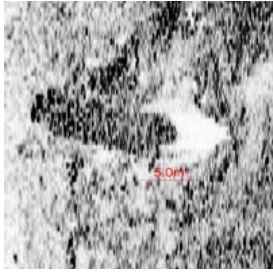
* This area is defined as within 150 m of the nearest pipeline centreline of Proposed Pipeline Route #300512

Complete.

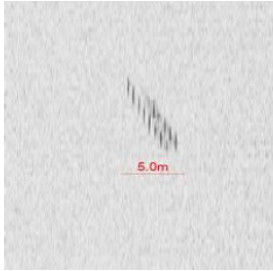
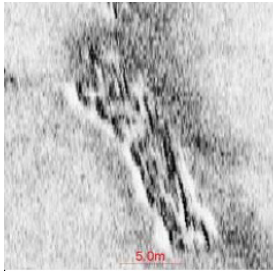
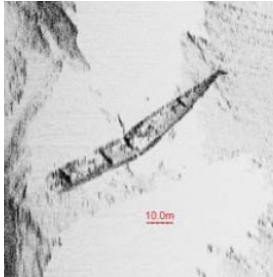
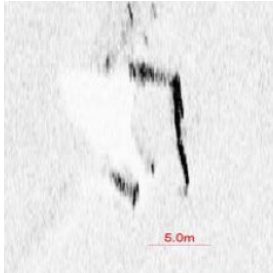
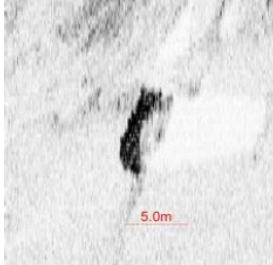
Table A16.2.4: Known and Potential Marine CHOs Over 150 m from Pipeline Route*

Target Name	Region	Description	Height (m)	Length (m)	Width (m)	Image
B1_S0002	Continental shelf	Potential CHO	0.7	9.8	3.3	
G-B1-0006	Continental shelf	Potential CHO	0.0	17.4	1.3	

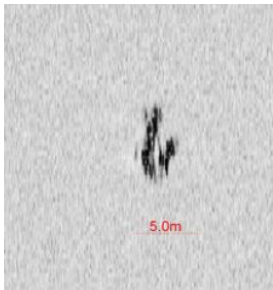
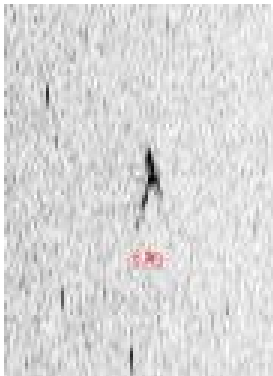
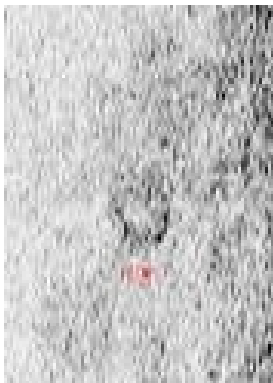
Continued...

Target Name	Region	Description	Height (m)	Length (m)	Width (m)	Image
RS_21	Continental slope	Potential CHO	2.0	10.7	8.3	
RS_35	Continental slope	Potential CHO	1.6	9.1	7.3	
RS_77	Continental slope	Potential shipwreck	0.0	17.4	6.2	
RS_190	Continental slope	German Messerschmitt Bf 109 (Me 109) Aircraft (CHO)	2.2	9.5	10	
RS_394	Continental slope	Potential CHO	2.5	6.0	10.3	

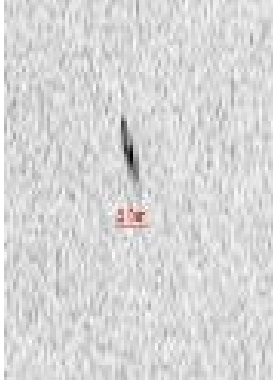
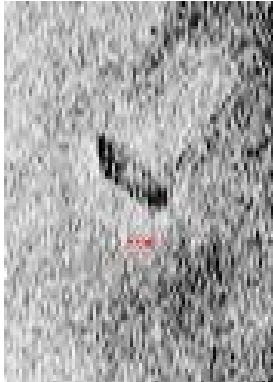
Continued...

Target Name	Region	Description	Height (m)	Length (m)	Width (m)	Image
RS_538	Continental slope	Potential CHO	0.0	5.7	2.1	
RS_871	Continental slope	Potential shipwreck	0.4	18.1	4.0	
RS_872	Continental slope	Shipwreck (CHO)	5.0	66.2	10.0	
RS_942	Continental slope	Potential CHO	1.5	11.2	4.1	
RS_943	Continental slope	Potential CHO	1.9	7.3	4.1	

Continued...

Target Name	Region	Description	Height (m)	Length (m)	Width (m)	Image
RS_993	Continental slope	Potential CHO	0.3	5.3	3.1	
R-B5-0010	Abyssal plain	Potential CHO	0.0	7.9	1.7	
R-B1-0010	Abyssal plain	Potential CHO	0.0	8.2	8.5	

Continued...

Target Name	Region	Description	Height (m)	Length (m)	Width (m)	Image
R-B1-0011	Abyssal plain	Potential CHO	0.0	7.0	2.2	
R-B1-0008	Abyssal plain	Potential shipwreck	1.6	10.6	8.4	

* This area is defined as within 150 m of the nearest pipeline centreline

Complete.