

Notice to Mariners: Subsea Rock Placement on HVDC Cables close to Cambois Beach

NSL Document No. NSL-1.2.3-TE3-RE-0005

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1 Purpose

In 2018, NSL installed 270km of HVDC cables in English waters including 2 parallel cables from Cambois beach to approximately 65km offshore. The primary means of protecting these cables was to bury in the seabed however rock protection was also used a secondary means of protection. This document provides Mariners with reconfirmation of the location of all rock placement installed from the landfall at Cambois beach to approximately 65km offshore.

There are several areas where rock berms were required to protect the cable. Mariners are encouraged to take note of the location of the berms and other rock protection provided in this document and exercise additional caution if operating in these areas.

2 Project Background

The North Sea Link project will connect the electricity systems of Norway and the UK via high voltage subsea cables from Kviteseid in Norway to Blyth. Linking Nordic and British energy markets will provide opportunities for shared use of renewable energy, increase the security of electricity supplies for both countries and providing additional transmission capacity for electricity to be traded between both countries, supporting economic growth in Norway and the UK.

3 Cable Installation

The subsea cables are laid first and then protected in accordance with the Marine Licence awarded by the Marine Management Organisation. The primary method of protecting the subsea cables is post lay burial using water jetting and mechanical trenching tools on board the Grand Canyon 1 and 3 vessels. Post lay burial was attempted in all locations along the cable route and in some time instances attempted for a second and third time to achieve an acceptable depth. In some areas of hard ground and / or areas of cobbles and boulders, successful burial was not possible

Rock protection is chosen in instances where cable burial has not been successful. Where the cable has had no or very limited burial a rock berm has been installed. These rock berms are typically around 1m high of the seabed and 7m wide to create a 3:1 profile, the length of the berms will vary depending on the ground conditions. Where burial has created a trench but still protected the cable to acceptable levels, a small amount of rock protection is used to infill and keep close to or at the original seabed level.

Rock protection was installed by the Rockpiper vessel using a combination of 1-5" and in some instances 1-8" rock. Rock is graded for size at the quarry as it is loaded into the vessel.

4 Rock Protection Information

The coordinates for the rock berms are listed in tables 1 & 2 below and illustrated in the map in Appendix 1. Rock placement used as infill; providing additional protection within a trench close to the original seabed level is listed in Appendix 2 & 3.

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All mariners are requested to make themselves aware of their obligations for conducting activities over buried and protected cables under International and UK Cable (Sub-sea) Protection Legislation.

5 FIGURE 1 – NORTH SEA LINK CABLE ROUTE & AREA OF CONSIDERATION



6 Contact Details

Further enquiries should be addressed to the following contacts:

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7.1 TABLE 1 – Rock berm locations for North Cable

Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
707.100	219,611	6,121,936	55° 9.864' N	1° 24.166' W	706.700	219,981	6,122,086	55° 9.958' N	1° 23.826' W	400
703.933	222,545	6,123,127	55° 10.604' N	1° 21.480' W	703.905	222,571	6,123,137	55° 10.610' N	1° 21.456' W	28
703.691	222,770	6,123,217	55° 10.660' N	1° 21.274' W	703.665	222,794	6,123,228	55° 10.666' N	1° 21.252' W	26
692.409	233,086	6,127,769	55° 13.448' N	1° 11.839' W	692.399	233,096	6,127,773	55° 13.450' N	1° 11.830' W	10
681.400	242,828	6,132,757	55° 16.441' N	1° 2.947' W	681.392	242,842	6,132,767	55° 16.446' N	1° 2.934' W	8
670.448	252,036	6,138,689	55° 19.914' N	0° 54.585' W	670.399	252,077	6,138,715	55° 19.929' N	0° 54.547' W	49
670.293	252,168	6,138,770	55° 19.962' N	0° 54.465' W	670.281	252,178	6,138,777	55° 19.966' N	0° 54.455' W	12
663.706	257,449	6,142,635	55° 22.199' N	0° 49.681' W	663.702	257,452	6,142,639	55° 22.201' N	0° 49.679' W	4
660.127	259,714	6,145,407	55° 23.757' N	0° 47.685' W	660.126	259,749	6,145,447	55° 23.779' N	0° 47.654' W	1
660.065	259,753	6,145,455	55° 23.784' N	0° 47.650' W	660.037	259,771	6,145,476	55° 23.796' N	0° 47.635' W	28
659.952	259,824	6,145,543	55° 23.833' N	0° 47.588' W	659.898	259,860	6,145,584	55° 23.856' N	0° 47.557' W	54

7.2 TABLE 2 – Rock berm locations for South Cable

Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
710.311	216578.32	6120949.05	55° 9.230' N	1° 26.954' W	710.289	216599.75	6120944.06	55° 9.228' N	1° 26.933' W	400
707.199	219502.53	6121858.41	55° 9.819' N	1° 24.263' W	706.65	220004.83	6122079.07	55° 9.955' N	1° 23.804' W	28
675.161	248014.92	6136154.64	55° 18.429' N	0° 58.242' W	675.157	248018.33	6136156.72	55° 18.430' N	0° 58.239' W	26
675.157	248018.33	6136156.72	55° 18.430' N	0° 58.239' W	675.138	248034.57	6136166.6	55° 18.436' N	0° 58.224' W	10
671.199	251386.88	6138233.85	55° 19.650' N	0° 55.173' W	671.188	251396.61	6138239.02	55° 19.653' N	0° 55.164' W	8
668.501	253683.36	6139649.8	55° 20.481' N	0° 53.081' W	668.488	253694.08	6139657.15	55° 20.485' N	0° 53.071' W	49
650.655	265720.99	6152656.09	55° 27.831' N	0° 42.372' W	650.64	265730.77	6152667.47	55° 27.838' N	0° 42.363' W	12
650.374	265899.59	6152873.03	55° 27.953' N	0° 42.214' W	650.354	265911.96	6152888.75	55° 27.962' N	0° 42.203' W	4
646.11	269905.81	6157669.4	55° 30.648' N	0° 38.658' W	646.001	269983.67	6157745.68	55° 30.691' N	0° 38.588' W	1

North Sea Link

8 Chart of Rock Berms

Title:
Notice to Mariners: Subsea Rock Placement on HVDC
Cables close to Cambois Beach

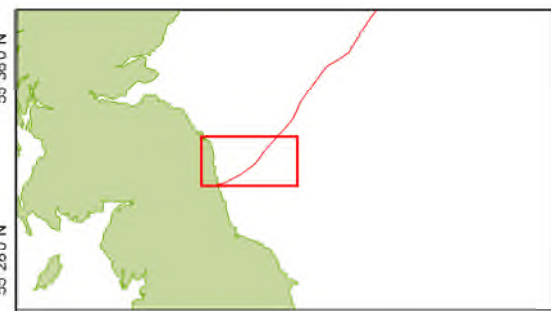
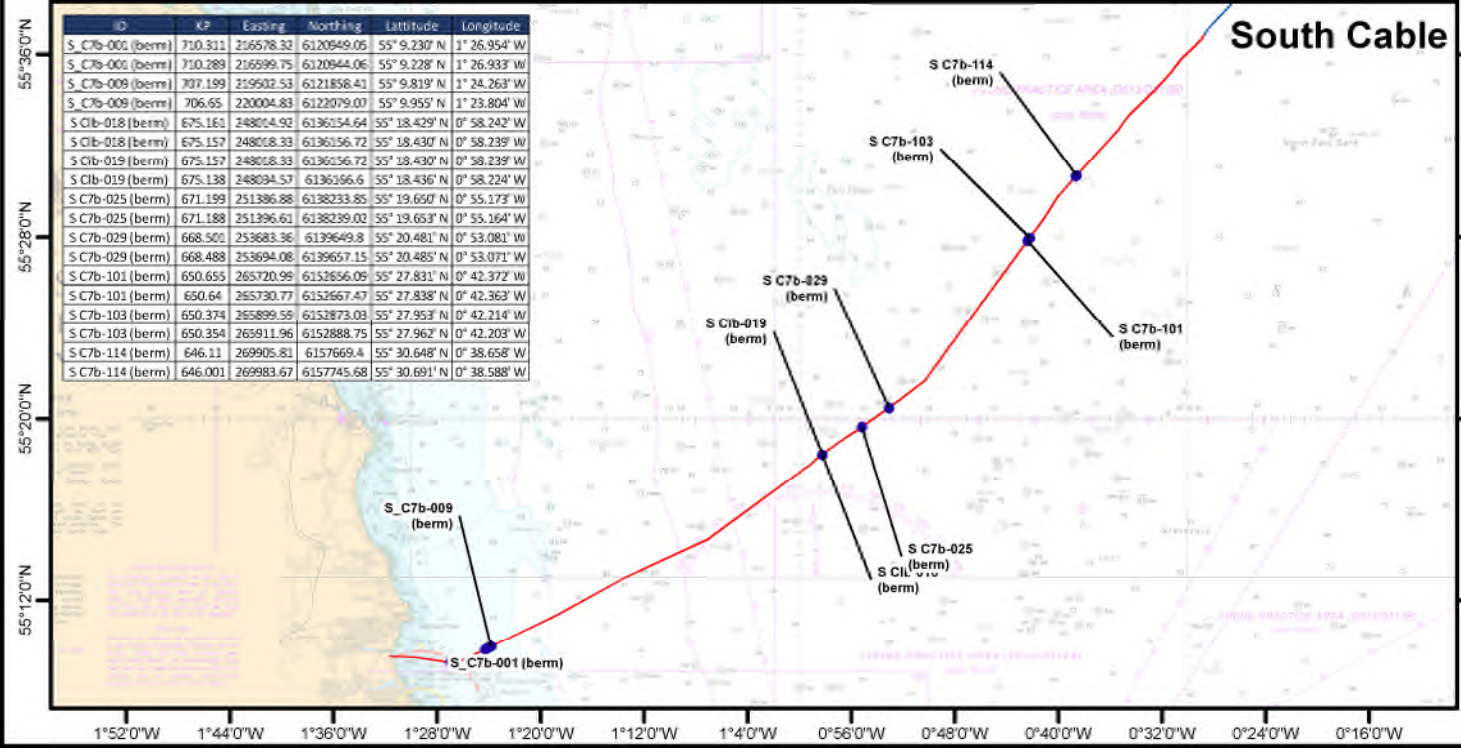
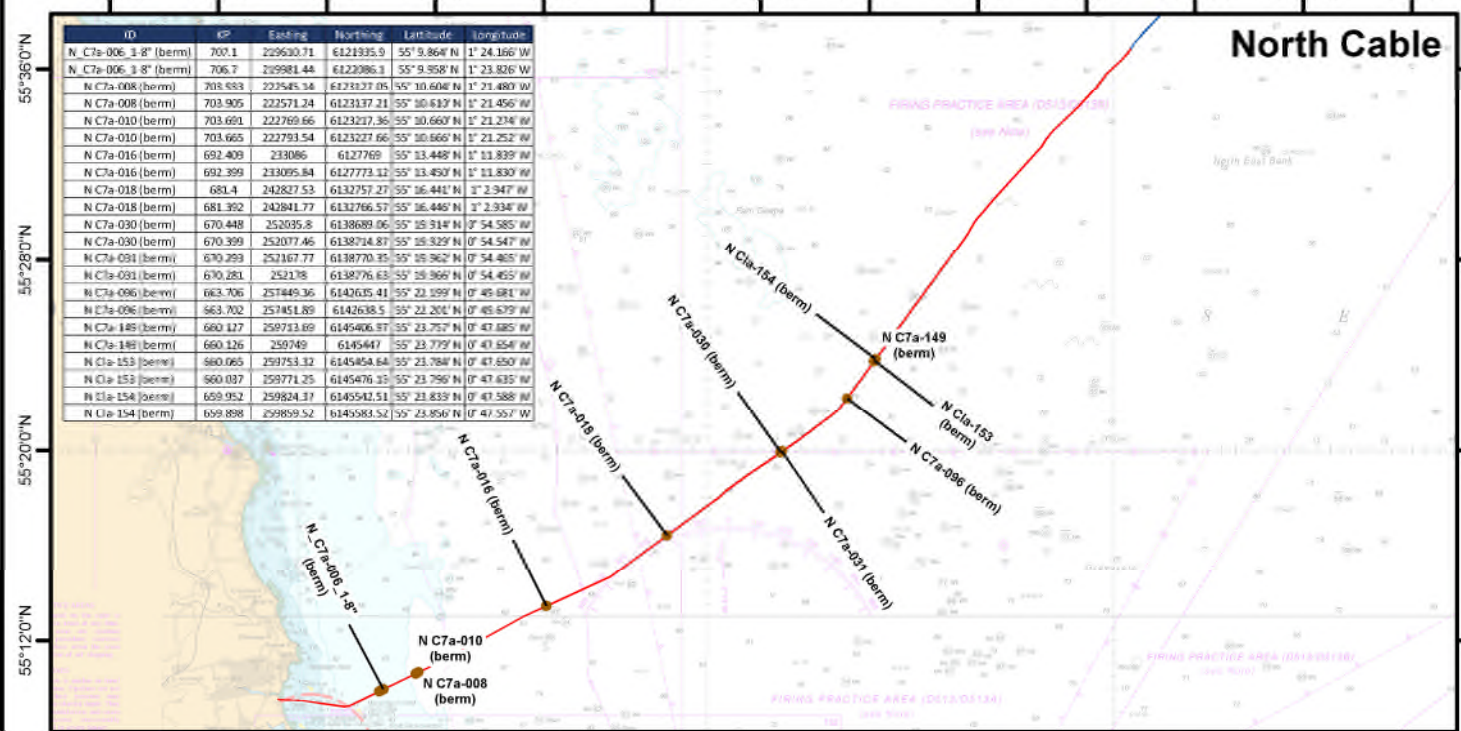
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1°44'0"W 1°36'0"W 1°28'0"W 1°20'0"W 1°12'0"W 1°4'0"W 0°56'0"W 0°48'0"W 0°40'0"W 0°32'0"W 0°24'0"W 0°16'0"W 0°8'0"W



- Prelay Survey Footprint
- Section of the North Sea Link Covered by this Agreement
- North Cable Rock Berms
- South Cable Rock Berms

Notes:-
This map contains data from the following sources:-

PROJECT TITLE
National Grid North Sea Link


DRAWING TITLE
North Sea Link Offshore Construction Rock Placement

VER	DATE	REMARKS	Drawn	Checked
1	28/08/2019	Draft	TD	JK

DRAWING NUMBER:
NG_NSL_01_008_Rockberms28082019

SCALE: _____ PLOT SIZE: A4 DATUM & PROJECTION: WGS 1984 World Mercator

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9 Additional Rock Protection / Infill - North Cable

ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
N_C7a-001_1-8"	710.608	216307.2	6121027	1° 27.213' W	55° 9.263' N	710.51	216403.2	6121007	55° 9.256' N	1° 27.122' W	98
N_C7a-002_1-8"	710.51	216403.2	6121007	1° 27.122' W	55° 9.256' N	710.048	216856.2	6120925	55° 9.227' N	1° 26.692' W	462
N_C7a-003_1-8"	708.202	218591.3	6121517	1° 25.098' W	55° 9.605' N	708.123	218664.3	6121548	55° 9.623' N	1° 25.031' W	79
N_C7a-004_1-8"	708.078	218706	6121564	1° 24.993' W	55° 9.634' N	707.2	219518.2	6121898	55° 9.841' N	1° 24.250' W	878
N_C7a-005_1-8"	707.2	219518.2	6121898	1° 24.250' W	55° 9.841' N	707.1	219610.7	6121936	55° 9.864' N	1° 24.166' W	100
N_C7a-006_1-8" (berm)	707.1	219610.7	6121936	1° 24.166' W	55° 9.864' N	706.7	219981.4	6122086	55° 9.958' N	1° 23.826' W	400
N_C7a-007A_1-8"	706.7	219981.4	6122086	1° 23.826' W	55° 9.958' N	705.925	220699.2	6122378	55° 10.139' N	1° 23.170' W	775
N C7a-007B 1-5"	705.925	220699.2	6122378	1° 23.170' W	55° 10.139' N	703.933	222545.1	6123127	55° 10.604' N	1° 21.480' W	1992
N C7a-008 (berm)	703.933	222545.1	6123127	1° 21.480' W	55° 10.604' N	703.905	222571.2	6123137	55° 10.610' N	1° 21.456' W	28
N C7a-009	703.905	222571.2	6123137	1° 21.456' W	55° 10.610' N	703.691	222769.7	6123217	55° 10.660' N	1° 21.274' W	214
N C7a-010 (berm)	703.691	222769.7	6123217	1° 21.274' W	55° 10.660' N	703.665	222793.5	6123228	55° 10.666' N	1° 21.252' W	26
N C7a-011	703.665	222793.5	6123228	1° 21.252' W	55° 10.666' N	703.15	223270.7	6123422	55° 10.787' N	1° 20.816' W	515
N C7a-012	702.582	223797	6123635	1° 20.334' W	55° 10.919' N	702.569	223809	6123640	55° 10.922' N	1° 20.323' W	13
N C7a-013	701.411	224882.2	6124075	1° 19.340' W	55° 11.192' N	701.396	224896.1	6124081	55° 11.195' N	1° 19.327' W	15
N C7a-014	698.012	227967.3	6125500	1° 16.523' W	55° 12.060' N	697.96	228014.2	6125522	55° 12.074' N	1° 16.480' W	52
N C7a-015	697.22	228683.6	6125838	1° 15.869' W	55° 12.266' N	697.206	228696.3	6125844	55° 12.269' N	1° 15.857' W	14
N C7a-016 (berm)	692.409	233086.5	6127770	1° 11.839' W	55° 13.448' N	692.399	233095.8	6127773	55° 13.450' N	1° 11.830' W	10
N C7a-017	692.399	233095.8	6127773	1° 11.830' W	55° 13.450' N	692.396	233098.6	6127774	55° 13.451' N	1° 11.827' W	3
N C7a-018 (berm)	681.4	242835.1	6132762	1° 2.940' W	55° 16.443' N	681.392	242841.8	6132767	55° 16.446' N	1° 2.934' W	8
N C7a-019	678.383	245366.8	6134403	1° 0.644' W	55° 17.405' N	678.308	245430.1	6134443	55° 17.428' N	1° 0.587' W	75
N C7a-021	673.976	249023.3	6136854	0° 57.329' W	55° 18.835' N	673.964	249033.4	6136860	55° 18.839' N	0° 57.320' W	12
N C7a-023	673.942	249051.9	6136872	0° 57.303' W	55° 18.846' N	673.936	249057	6136875	55° 18.848' N	0° 57.298' W	6
N C7a-024	673.636	249310.3	6137036	0° 57.068' W	55° 18.942' N	673.622	249322.2	6137043	55° 18.947' N	0° 57.057' W	14
N C7a-026	671.896	250800.1	6137934	0° 55.711' W	55° 19.471' N	671.891	250804.4	6137937	55° 19.472' N	0° 55.707' W	5

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
N C7a-027	671.776	250902.7	6137997	0° 55.617' W	55° 19.507' N	671.758	250918.1	6138006	55° 19.513' N	0° 55.603' W	18
N C7a-030 (berm)	670.448	252035.8	6138689	0° 54.585' W	55° 19.914' N	670.399	252077.5	6138715	55° 19.929' N	0° 54.547' W	49
N C7a-031 (berm)	670.293	252167.8	6138770	0° 54.465' W	55° 19.962' N	670.281	252178	6138777	55° 19.966' N	0° 54.455' W	12
N C7a-033	670.031	252391.2	6138907	0° 54.261' W	55° 20.042' N	670.008	252410.9	6138919	55° 20.049' N	0° 54.243' W	23
N C7a-034	669.376	252949.3	6139250	0° 53.753' W	55° 20.244' N	669.373	252951.8	6139252	55° 20.245' N	0° 53.750' W	3
N C7a-035	669.226	253077	6139329	0° 53.636' W	55° 20.290' N	669.191	253106.9	6139347	55° 20.300' N	0° 53.609' W	35
N C7a-036	669.011	253260.6	6139441	0° 53.469' W	55° 20.356' N	669.008	253263.2	6139442	55° 20.356' N	0° 53.467' W	3
N C7a-037	668.973	253293	6139461	0° 53.439' W	55° 20.367' N	668.972	253293.8	6139461	55° 20.368' N	0° 53.439' W	1
N C7a-038	668.259	253894.2	6139846	0° 52.892' W	55° 20.592' N	668.255	253897.6	6139848	55° 20.594' N	0° 52.889' W	4
N C7a-039	668.242	253908.5	6139855	0° 52.879' W	55° 20.598' N	668.236	253913.5	6139858	55° 20.600' N	0° 52.875' W	6
N_C7a-041	668.162	253975.4	6139899	0° 52.818' W	55° 20.623' N	668.134	253999.2	6139913	55° 20.632' N	0° 52.797' W	28
N_C7a-043	668.06	254061.5	6139953	0° 52.740' W	55° 20.655' N	668.038	254080	6139965	55° 20.662' N	0° 52.723' W	22
N_C7a-045	668.033	254084.2	6139968	0° 52.719' W	55° 20.664' N	668.02	254095.2	6139975	55° 20.668' N	0° 52.709' W	13
N C7a-047	667.812	254269.7	6140088	0° 52.551' W	55° 20.734' N	667.774	254301.7	6140109	55° 20.746' N	0° 52.522' W	38
N C7a-048	667.727	254341.1	6140134	0° 52.486' W	55° 20.761' N	667.692	254370.4	6140153	55° 20.772' N	0° 52.459' W	35
N C7a-049	667.692	254370.4	6140153	0° 52.459' W	55° 20.772' N	667.656	254400.5	6140173	55° 20.784' N	0° 52.432' W	36
N C7a-050	667.656	254400.5	6140173	0° 52.432' W	55° 20.784' N	667.652	254403.8	6140175	55° 20.785' N	0° 52.429' W	4
N_C7a-051	667.364	254642	6140337	0° 52.212' W	55° 20.879' N	667.362	254643.6	6140338	55° 20.880' N	0° 52.211' W	2
N C7a-052	667.362	254643.6	6140338	0° 52.211' W	55° 20.880' N	667.357	254647.8	6140341	55° 20.882' N	0° 52.207' W	5
N C7a-053	667.357	254647.8	6140341	0° 52.207' W	55° 20.882' N	667.338	254663.5	6140352	55° 20.888' N	0° 52.193' W	19
N C7a-054	667.338	254663.5	6140352	0° 52.193' W	55° 20.888' N	667.334	254666.8	6140354	55° 20.889' N	0° 52.190' W	4
N C7a-055	667.334	254666.8	6140354	0° 52.190' W	55° 20.889' N	667.316	254681.7	6140364	55° 20.895' N	0° 52.176' W	18
N C7a-056	667.316	254681.7	6140364	0° 52.176' W	55° 20.895' N	667.31	254686.6	6140368	55° 20.897' N	0° 52.172' W	6
N C7a-057	667.31	254686.6	6140368	0° 52.172' W	55° 20.897' N	667.273	254717	6140389	55° 20.909' N	0° 52.144' W	37
N C7a-058	667.273	254717	6140389	0° 52.144' W	55° 20.909' N	667.268	254721.1	6140392	55° 20.911' N	0° 52.140' W	5
N C7a-059	667.268	254721.1	6140392	0° 52.140' W	55° 20.911' N	667.258	254729.3	6140397	55° 20.914' N	0° 52.133' W	10
N C7a-060	666.975	254963.3	6140557	0° 51.921' W	55° 21.007' N	666.968	254969	6140561	55° 21.009' N	0° 51.915' W	7
N C7a-061	666.968	254969	6140561	0° 51.915' W	55° 21.009' N	666.96	254975.6	6140565	55° 21.012' N	0° 51.909' W	8
N C7a-062	666.921	255007.8	6140587	0° 51.880' W	55° 21.025' N	666.92	255008.6	6140588	55° 21.025' N	0° 51.879' W	1

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
N C7a-063	666.92	255008.6	6140588	0° 51.879' W	55° 21.025' N	666.897	255027.6	6140601	55° 21.033' N	0° 51.862' W	23
N C7a-064	666.897	255027.6	6140601	0° 51.862' W	55° 21.033' N	666.895	255029.2	6140602	55° 21.033' N	0° 51.861' W	2
N C7a-065	666.53	255330.6	6140808	0° 51.587' W	55° 21.153' N	666.503	255353	6140823	55° 21.162' N	0° 51.567' W	27
N C7a-066	666.43	255413	6140864	0° 51.512' W	55° 21.186' N	666.408	255431.2	6140877	55° 21.193' N	0° 51.496' W	22
N C7a-067	666.408	255431.2	6140877	0° 51.496' W	55° 21.193' N	666.404	255434.5	6140879	55° 21.194' N	0° 51.493' W	4
N C7a-068	666.015	255755.7	6141098	0° 51.201' W	55° 21.322' N	665.985	255780.6	6141115	55° 21.332' N	0° 51.178' W	30
N C7a-069	665.46	256213.6	6141412	0° 50.785' W	55° 21.504' N	665.448	256223.5	6141419	55° 21.508' N	0° 50.776' W	12
N C7a-070	665.448	256223.5	6141419	0° 50.776' W	55° 21.508' N	665.437	256232.5	6141425	55° 21.512' N	0° 50.768' W	11
N C7a-071	665.437	256232.5	6141425	0° 50.768' W	55° 21.512' N	665.425	256242.4	6141432	55° 21.516' N	0° 50.759' W	12
N C7a-072	665.244	256391.9	6141534	0° 50.623' W	55° 21.575' N	665.242	256393.5	6141535	55° 21.576' N	0° 50.621' W	2
N C7a-073	665.242	256393.5	6141535	0° 50.621' W	55° 21.576' N	665.232	256401.8	6141541	55° 21.579' N	0° 50.614' W	10
N C7a-074	665.232	256401.8	6141541	0° 50.614' W	55° 21.579' N	665.231	256402.7	6141541	55° 21.580' N	0° 50.613' W	1
N C7a-075	664.993	256599.1	6141676	0° 50.434' W	55° 21.658' N	664.943	256640.5	6141704	55° 21.674' N	0° 50.397' W	50
N C7a-076	664.943	256640.5	6141704	0° 50.397' W	55° 21.674' N	664.937	256645.4	6141707	55° 21.676' N	0° 50.392' W	6
N C7a-077	664.937	256645.4	6141707	0° 50.392' W	55° 21.676' N	664.935	256647.1	6141708	55° 21.677' N	0° 50.391' W	2
N C7a-078	664.909	256668.6	6141723	0° 50.371' W	55° 21.685' N	664.903	256673.5	6141726	55° 21.687' N	0° 50.367' W	6
N C7a-079	664.903	256673.5	6141726	0° 50.367' W	55° 21.687' N	664.897	256678.5	6141730	55° 21.689' N	0° 50.362' W	6
N C7a-080	664.483	256952.3	6142038	0° 50.120' W	55° 21.863' N	664.401	257004.7	6142101	55° 21.899' N	0° 50.074' W	82
N C7a-081	664.401	257004.7	6142101	0° 50.074' W	55° 21.899' N	664.398	257006.6	6142104	55° 21.900' N	0° 50.072' W	3
N C7a-082	664.398	257006.6	6142104	0° 50.072' W	55° 21.900' N	664.38	257018.1	6142117	55° 21.908' N	0° 50.062' W	18
N C7a-083	664.213	257125.2	6142246	0° 49.967' W	55° 21.980' N	664.181	257145.5	6142270	55° 21.994' N	0° 49.949' W	32
N C7a-084	664.181	257145.5	6142270	0° 49.949' W	55° 21.994' N	664.176	257148.6	6142274	55° 21.996' N	0° 49.947' W	5
N C7a-085	664.176	257148.6	6142274	0° 49.947' W	55° 21.996' N	664.127	257179.5	6142312	55° 22.017' N	0° 49.920' W	49
N C7a-086	664.081	257209.3	6142347	0° 49.893' W	55° 22.037' N	664.033	257240.1	6142384	55° 22.058' N	0° 49.866' W	48
N C7a-087	664.033	257240.1	6142384	0° 49.866' W	55° 22.058' N	664.018	257249.6	6142396	55° 22.064' N	0° 49.858' W	15
N C7a-088	664.018	257249.6	6142396	0° 49.858' W	55° 22.064' N	664.016	257250.9	6142397	55° 22.065' N	0° 49.856' W	2
N C7a-089	663.934	257303.9	6142460	0° 49.810' W	55° 22.100' N	663.924	257310.4	6142467	55° 22.105' N	0° 49.804' W	10
N C7a-090	663.896	257328.3	6142489	0° 49.788' W	55° 22.117' N	663.874	257342.3	6142506	55° 22.126' N	0° 49.776' W	22
N C7a-091	663.874	257342.3	6142506	0° 49.776' W	55° 22.126' N	663.818	257378.2	6142549	55° 22.151' N	0° 49.744' W	56
N C7a-093	663.814	257380.8	6142552	0° 49.742' W	55° 22.152' N	663.791	257395.3	6142570	55° 22.162' N	0° 49.729' W	23
N C7a-094	663.748	257422.5	6142603	0° 49.705' W	55° 22.181' N	663.744	257425.1	6142606	55° 22.183' N	0° 49.703' W	4

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
N C7a-095	663.711	257446.2	6142632	0° 49.684' W	55° 22.197' N	663.706	257449.4	6142635	55° 22.199' N	0° 49.681' W	5
N C7a-096 (berm)	663.706	257449.4	6142635	0° 49.681' W	55° 22.199' N	663.702	257451.9	6142639	55° 22.201' N	0° 49.679' W	4
N C7a-097	663.659	257479.4	6142672	0° 49.655' W	55° 22.219' N	663.651	257484.5	6142678	55° 22.223' N	0° 49.650' W	8
N C7a-098	663.651	257484.5	6142678	0° 49.650' W	55° 22.223' N	663.631	257497.4	6142693	55° 22.232' N	0° 49.639' W	20
N C7a-099	663.631	257497.4	6142693	0° 49.639' W	55° 22.232' N	663.63	257498.1	6142694	55° 22.232' N	0° 49.638' W	1
N C7a-101	663.382	257656.5	6142885	0° 49.499' W	55° 22.339' N	663.38	257657.8	6142886	55° 22.340' N	0° 49.498' W	2
N C7a-104	662.917	257953.1	6143243	0° 49.237' W	55° 22.541' N	662.892	257968.8	6143262	55° 22.552' N	0° 49.223' W	25
N C7a-105	662.892	257968.8	6143262	0° 49.223' W	55° 22.552' N	662.855	257992.1	6143291	55° 22.568' N	0° 49.203' W	37
N C7a-106	662.855	257992.1	6143291	0° 49.203' W	55° 22.568' N	662.809	258020.9	6143327	55° 22.588' N	0° 49.177' W	46
N C7a-107	662.809	258020.9	6143327	0° 49.177' W	55° 22.588' N	662.782	258038	6143348	55° 22.600' N	0° 49.162' W	27
N C7a-108	662.782	258038	6143348	0° 49.162' W	55° 22.600' N	662.776	258041.7	6143352	55° 22.602' N	0° 49.159' W	6
N C7a-109	662.776	258041.7	6143352	0° 49.159' W	55° 22.602' N	662.768	258046.7	6143359	55° 22.606' N	0° 49.155' W	8
N C7a-110	662.768	258046.7	6143359	0° 49.155' W	55° 22.606' N	662.742	258063.1	6143379	55° 22.617' N	0° 49.140' W	26
N C7a-111	662.742	258063.1	6143379	0° 49.140' W	55° 22.617' N	662.729	258071.3	6143389	55° 22.623' N	0° 49.133' W	13
N C7a-112	662.729	258071.3	6143389	0° 49.133' W	55° 22.623' N	662.671	258108.3	6143434	55° 22.648' N	0° 49.100' W	58
N C7a-113	662.6	258152.9	6143489	0° 49.061' W	55° 22.679' N	662.477	258230.4	6143584	55° 22.733' N	0° 48.993' W	123
N C7a-114	662.477	258230.4	6143584	0° 48.993' W	55° 22.733' N	662.472	258233.5	6143588	55° 22.735' N	0° 48.990' W	5
N C7a-115	662.472	258233.5	6143588	0° 48.990' W	55° 22.735' N	662.461	258240.4	6143597	55° 22.740' N	0° 48.984' W	11
N C7a-116	662.461	258240.4	6143597	0° 48.984' W	55° 22.740' N	662.455	258244.1	6143601	55° 22.742' N	0° 48.981' W	6
N C7a-117	662.455	258244.1	6143601	0° 48.981' W	55° 22.742' N	662.437	258255.2	6143616	55° 22.750' N	0° 48.971' W	18
N C7a-119	662.43	258259.5	6143621	0° 48.967' W	55° 22.753' N	662.428	258260.8	6143623	55° 22.754' N	0° 48.966' W	2
N C7a-120	662.377	258292	6143663	0° 48.939' W	55° 22.777' N	662.373	258294.4	6143666	55° 22.779' N	0° 48.937' W	4
N C7a-122	662.364	258300	6143673	0° 48.932' W	55° 22.783' N	662.363	258300.6	6143674	55° 22.783' N	0° 48.931' W	1
N C7a-123	662.243	258376.5	6143767	0° 48.864' W	55° 22.835' N	662.213	258395.3	6143790	55° 22.848' N	0° 48.848' W	30
N C7a-124	662.067	258486.6	6143904	0° 48.767' W	55° 22.912' N	662.032	258508.9	6143931	55° 22.928' N	0° 48.748' W	35
N C7a-125	662.032	258508.9	6143931	0° 48.748' W	55° 22.928' N	662.027	258512	6143935	55° 22.930' N	0° 48.745' W	5
N C7a-126	662.027	258512	6143935	0° 48.745' W	55° 22.930' N	661.979	258541.9	6143973	55° 22.951' N	0° 48.719' W	48
N C7a-127	661.979	258541.9	6143973	0° 48.719' W	55° 22.951' N	661.977	258543.2	6143974	55° 22.952' N	0° 48.718' W	2
N C7a-128	661.939	258567.1	6144004	0° 48.697' W	55° 22.968' N	661.907	258587.2	6144029	55° 22.982' N	0° 48.679' W	32
N C7a-129	661.83	258635.5	6144089	0° 48.636' W	55° 23.016' N	661.81	258648.1	6144104	55° 23.025' N	0° 48.625' W	20

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
N C7a-130	661.399	258907.6	6144423	0° 48.396' W	55° 23.204' N	661.396	258909.5	6144425	55° 23.205' N	0° 48.395' W	3
N C7a-131	661.327	258953.6	6144478	0° 48.356' W	55° 23.235' N	661.324	258955.5	6144481	55° 23.236' N	0° 48.354' W	3
N C7a-132	661.04	259135.6	6144700	0° 48.195' W	55° 23.360' N	660.969	259180.5	6144755	55° 23.391' N	0° 48.156' W	71
N C7a-133	660.93	259205.3	6144785	0° 48.134' W	55° 23.408' N	660.929	259206	6144786	55° 23.408' N	0° 48.133' W	1
N C7a-135	660.925	259208.5	6144789	0° 48.131' W	55° 23.410' N	660.899	259225.1	6144809	55° 23.421' N	0° 48.116' W	26
N C7a-137	660.812	259280.5	6144876	0° 48.068' W	55° 23.459' N	660.807	259283.6	6144880	55° 23.461' N	0° 48.065' W	5
N C7a-138	660.636	259391.5	6145013	0° 47.970' W	55° 23.535' N	660.605	259411.2	6145037	55° 23.549' N	0° 47.952' W	31
N C7a-140	660.6	259414.5	6145041	0° 47.949' W	55° 23.551' N	660.573	259431.6	6145061	55° 23.563' N	0° 47.934' W	27
N C7a-141	660.513	259469.7	6145108	0° 47.901' W	55° 23.589' N	660.499	259478.5	6145119	55° 23.595' N	0° 47.893' W	14
N_C7a-142	660.499	259478.5	6145119	0° 47.893' W	55° 23.595' N	660.496	259480.4	6145121	55° 23.596' N	0° 47.891' W	3
N_C7a-143	660.496	259480.4	6145121	0° 47.891' W	55° 23.596' N	660.478	259491.7	6145135	55° 23.604' N	0° 47.881' W	18
N_C7a-144	660.465	259500	6145145	0° 47.874' W	55° 23.610' N	660.459	259503.9	6145150	55° 23.612' N	0° 47.870' W	6
N C7a-146	660.35	259573.5	6145234	0° 47.809' W	55° 23.660' N	660.342	259578.6	6145240	55° 23.663' N	0° 47.804' W	8
N C7a-147	660.32	259593.1	6145256	0° 47.792' W	55° 23.672' N	660.304	259603.7	6145268	55° 23.679' N	0° 47.782' W	16
N C7a-148	660.259	259632.1	6145303	0° 47.757' W	55° 23.699' N	660.257	259633.3	6145305	55° 23.700' N	0° 47.756' W	2
N C7a-149 (berm)	660.127	259713.7	6145407	0° 47.685' W	55° 23.757' N	660.126	259714.3	6145408	55° 23.757' N	0° 47.685' W	1
N_C7a-150	660.126	259714.3	6145408	0° 47.685' W	55° 23.757' N	660.121	259717.4	6145412	55° 23.760' N	0° 47.682' W	5
N C7a-151	660.121	259717.4	6145412	0° 47.682' W	55° 23.760' N	660.12	259718.1	6145412	55° 23.760' N	0° 47.682' W	1
N C7a-152	660.099	259731.5	6145429	0° 47.670' W	55° 23.769' N	660.096	259733.4	6145431	55° 23.770' N	0° 47.668' W	3
N Cla-153 (berm)	660.065	259753.3	6145455	0° 47.650' W	55° 23.784' N	660.037	259771.3	6145476	55° 23.796' N	0° 47.635' W	28
N Cla-154 (berm)	659.952	259824.4	6145543	0° 47.588' W	55° 23.833' N	659.898	259859.5	6145584	55° 23.856' N	0° 47.557' W	54
N Cla-155	659.877	259872.8	6145600	0° 47.545' W	55° 23.865' N	659.82	259909.1	6145644	55° 23.890' N	0° 47.513' W	57
N Cla-156	659.801	259920.9	6145659	0° 47.503' W	55° 23.898' N	659.79	259928.3	6145667	55° 23.903' N	0° 47.496' W	11
N Cla-151	659.772	259939.6	6145681	0° 47.486' W	55° 23.911' N	659.761	259946.4	6145689	55° 23.916' N	0° 47.480' W	11
N Cla-158	659.747	259954.6	6145701	0° 47.473' W	55° 23.922' N	659.741	259958.3	6145706	55° 23.925' N	0° 47.470' W	6
N Cla-159	659.741	259958.3	6145706	0° 47.470' W	55° 23.925' N	659.729	259965.7	6145715	55° 23.930' N	0° 47.463' W	12
N Cla-160	659.719	259971.9	6145723	0° 47.458' W	55° 23.934' N	659.716	259973.7	6145725	55° 23.936' N	0° 47.456' W	3
N Cla-161	659.706	259980.1	6145733	0° 47.450' W	55° 23.940' N	659.688	259991.8	6145747	55° 23.948' N	0° 47.440' W	18

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
N Cla-162	659.688	259991.8	6145747	0° 47.440' W	55° 23.948' N	659.682	259996	6145751	55° 23.950' N	0° 47.436' W	6
N Cla-163	659.616	260039.7	6145801	0° 47.398' W	55° 23.978' N	659.57	260069.4	6145836	55° 23.998' N	0° 47.371' W	46
N Cla-164	659.557	260077.6	6145846	0° 47.364' W	55° 24.004' N	659.517	260102.3	6145877	55° 24.021' N	0° 47.342' W	40
N Cla-166	659.328	260220.4	6146025	0° 47.238' W	55° 24.104' N	659.31	260231.7	6146039	55° 24.112' N	0° 47.228' W	18
N Cla-16l	659.098	260366.1	6146203	0° 47.110' W	55° 24.204' N	659.083	260375.7	6146214	55° 24.211' N	0° 47.101' W	15
N Cla-168	658.824	260540	6146414	0° 46.956' W	55° 24.323' N	658.796	260557.7	6146436	55° 24.335' N	0° 46.941' W	28
N Cla-169	657.632	261297.3	6147335	0° 46.287' W	55° 24.840' N	657.627	261300.7	6147339	55° 24.843' N	0° 46.284' W	5
N Cla-110	656.745	261857.9	6148022	0° 45.792' W	55° 25.227' N	656.732	261866	6148032	55° 25.232' N	0° 45.785' W	13
N Cla-111	656.621	261936.7	6148118	0° 45.723' W	55° 25.280' N	656.608	261945.1	6148128	55° 25.286' N	0° 45.715' W	13
N Cla-112	656.608	261945.1	6148128	0° 45.715' W	55° 25.286' N	656.6	261950.4	6148134	55° 25.289' N	0° 45.711' W	8
N Cla-113	656.6	261950.4	6148134	0° 45.711' W	55° 25.289' N	656.597	261952.4	6148136	55° 25.291' N	0° 45.709' W	3
N Cla-114	655.882	262406.4	6148689	0° 45.308' W	55° 25.601' N	655.875	262410.9	6148694	55° 25.604' N	0° 45.304' W	7
N Cla-115	655.875	262410.9	6148694	0° 45.304' W	55° 25.604' N	655.861	262419.9	6148705	55° 25.610' N	0° 45.296' W	14
N Cla-116	654.382	263356.4	6149849	0° 44.468' W	55° 26.253' N	654.37	263363.9	6149859	55° 26.258' N	0° 44.461' W	12
N Cla-11l	654.213	263463.5	6149980	0° 44.373' W	55° 26.326' N	654.21	263465.4	6149982	55° 26.328' N	0° 44.372' W	3
N Cla-118	654.204	263469.2	6149987	0° 44.368' W	55° 26.330' N	654.195	263475	6149994	55° 26.334' N	0° 44.363' W	9
N Cla-181	653.747	263758.4	6150341	0° 44.113' W	55° 26.529' N	653.74	263762.8	6150346	55° 26.532' N	0° 44.109' W	7
N Cla-182	653.061	264193.4	6150871	0° 43.728' W	55° 26.827' N	653.048	264201.7	6150881	55° 26.833' N	0° 43.721' W	13
N Cla-184	653.045	264203.6	6150884	0° 43.719' W	55° 26.834' N	653.043	264204.8	6150885	55° 26.835' N	0° 43.718' W	2
N Cla-18l	652.459	264575.1	6151337	0° 43.390' W	55° 27.089' N	652.455	264577.6	6151340	55° 27.090' N	0° 43.388' W	4
N Cla-188	652.455	264577.6	6151340	0° 43.388' W	55° 27.090' N	652.353	264641.7	6151419	55° 27.135' N	0° 43.331' W	102
N Cla-190	652.345	264646.7	6151426	0° 43.327' W	55° 27.138' N	652.338	264651.2	6151431	55° 27.141' N	0° 43.323' W	7
N Cla-191	652.312	264667.8	6151451	0° 43.308' W	55° 27.153' N	652.305	264672.4	6151456	55° 27.156' N	0° 43.304' W	7
N Cla-192	652.273	264692.8	6151481	0° 43.286' W	55° 27.169' N	652.261	264700.4	6151490	55° 27.175' N	0° 43.279' W	12

North Sea Link

10 Additional Rock Protection / Infill - South Cable

ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
S_C7b-001 (berm)	710.311	216578.3	6120949	1° 26.954' W	55° 9.230' N	710.289	216599.8	6120944	1° 26.933' W	55° 9.228' N	22
S_C7b-002	710.172	216714	6120919	1° 26.825' W	55° 9.219' N	710.15	216735.5	6120914	1° 26.804' W	55° 9.217' N	22
S_C7b-003	709.688	217193.9	6120931	1° 26.375' W	55° 9.242' N	709.682	217199.8	6120932	1° 26.369' W	55° 9.242' N	6
S_C7b-004	708.225	218551.8	6121473	1° 25.132' W	55° 9.579' N	708.127	218642.5	6121510	1° 25.049' W	55° 9.602' N	98
S_C7b-005	708.062	218702.9	6121534	1° 24.994' W	55° 9.617' N	707.784	218960.2	6121639	1° 24.759' W	55° 9.683' N	278
S_C7b-006	707.784	218960.2	6121639	1° 24.759' W	55° 9.683' N	707.491	219231.9	6121749	1° 24.510' W	55° 9.751' N	293
S_C7b-007	707.491	219231.9	6121749	1° 24.510' W	55° 9.751' N	707.48	219242.1	6121753	1° 24.501' W	55° 9.753' N	11
S_C7b-008	707.48	219242.1	6121753	1° 24.501' W	55° 9.753' N	707.2	219501.6	6121858	1° 24.263' W	55° 9.819' N	280
S_C7b-009 (berm)	707.199	219502.5	6121858	1° 24.263' W	55° 9.819' N	706.65	220004.8	6122079	1° 23.804' W	55° 9.955' N	549
S_C7b-010A_1-8"	706.65	220004.8	6122079	1° 23.804' W	55° 9.955' N	705.912	220693.5	6122343	1° 23.173' W	55° 10.120' N	738
S_Clb-010B 1-5"	705.912	220693.5	6122343	1° 23.173' W	55° 10.120' N	703.243	223166.4	6123347	1° 20.909' W	55° 10.743' N	2669
S_Clb-011	703.243	223166.4	6123347	1° 20.909' W	55° 10.743' N	703.093	223305.3	6123404	1° 20.782' W	55° 10.778' N	150
S_Clb-012	703.093	223305.3	6123404	1° 20.782' W	55° 10.778' N	702.606	223756.8	6123586	1° 20.369' W	55° 10.891' N	487
S_Clb-013	702.606	223756.8	6123586	1° 20.369' W	55° 10.891' N	702.589	223772.5	6123593	1° 20.354' W	55° 10.895' N	17
S_Clb-014	677.207	246345.7	6134979	0° 59.753' W	55° 17.745' N	677.187	246362.4	6134990	0° 59.737' W	55° 17.751' N	20
S_Clb-015	676.686	246781.6	6135264	0° 59.357' W	55° 17.912' N	676.619	246837.5	6135301	0° 59.306' W	55° 17.933' N	67
S_Clb-016	675.612	247638.8	6135907	0° 58.584' W	55° 18.284' N	675.607	247642.5	6135910	0° 58.580' W	55° 18.286' N	5
S_Clb-018 (berm)	675.161	248014.9	6136155	0° 58.242' W	55° 18.429' N	675.157	248018.3	6136157	0° 58.239' W	55° 18.430' N	4
S_Clb-019 (berm)	675.157	248018.3	6136157	0° 58.239' W	55° 18.430' N	675.138	248034.6	6136167	0° 58.224' W	55° 18.436' N	19
S_Clb-020	675.138	248034.6	6136167	0° 58.224' W	55° 18.436' N	675.125	248045.8	6136173	0° 58.214' W	55° 18.440' N	13
S_Clb-021	674.802	248317.9	6136347	0° 57.967' W	55° 18.541' N	674.787	248330.6	6136355	0° 57.955' W	55° 18.546' N	15
S_C7b-022	673.83	249138.6	6136868	0° 57.221' W	55° 18.847' N	673.746	249210.1	6136912	0° 57.156' W	55° 18.873' N	84
S_C7b-023	672.706	250091.7	6137464	0° 56.354' W	55° 19.196' N	672.7	250096.8	6137467	0° 56.349' W	55° 19.198' N	6
S_C7b-025 (berm)	671.199	251386.9	6138234	0° 55.173' W	55° 19.650' N	671.188	251396.6	6138239	0° 55.164' W	55° 19.653' N	11

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
S C7b-026	670.21	252229.8	6138751	0° 54.405' W	55° 19.954' N	670.208	252231.6	6138752	0° 54.404' W	55° 19.954' N	2
S C7b-028	670.195	252243.2	6138758	0° 54.393' W	55° 19.958' N	670.192	252245.9	6138759	0° 54.391' W	55° 19.958' N	3
S C7b-029 (berm)	668.501	253683.4	6139650	0° 53.081' W	55° 20.481' N	668.488	253694.1	6139657	0° 53.071' W	55° 20.485' N	13
S C7b-030	667.154	254808.2	6140391	0° 52.058' W	55° 20.913' N	667.129	254829.1	6140404	0° 52.039' W	55° 20.921' N	25
S C7b-031	667.081	254868	6140433	0° 52.004' W	55° 20.937' N	667.06	254885	6140445	0° 51.988' W	55° 20.944' N	21
S C7b-033	666.84	255066.9	6140569	0° 51.823' W	55° 21.016' N	666.8	255100.2	6140591	0° 51.793' W	55° 21.029' N	40
S C7b-034	664.759	256776.4	6141752	0° 50.271' W	55° 21.704' N	664.731	256793.4	6141774	0° 50.256' W	55° 21.716' N	28
S C7b-035	663.996	257266	6142337	0° 49.839' W	55° 22.033' N	663.986	257272.4	6142345	0° 49.833' W	55° 22.038' N	10
S C7b-036	663.953	257293.5	6142370	0° 49.815' W	55° 22.052' N	663.925	257311.3	6142392	0° 49.799' W	55° 22.064' N	28
S C7b-037	663.917	257316.4	6142398	0° 49.795' W	55° 22.067' N	663.907	257322.8	6142406	0° 49.789' W	55° 22.072' N	10
S C7b-038	663.799	257391.7	6142489	0° 49.728' W	55° 22.119' N	663.77	257410.5	6142511	0° 49.712' W	55° 22.131' N	29
S C7b-039	663.578	257533.9	6142658	0° 49.603' W	55° 22.214' N	663.549	257552.6	6142680	0° 49.586' W	55° 22.226' N	29
S C7b-040	663.536	257561.1	6142690	0° 49.579' W	55° 22.232' N	663.52	257571.6	6142702	0° 49.569' W	55° 22.239' N	16
S C7b-041	663.292	257717.6	6142877	0° 49.441' W	55° 22.337' N	663.287	257720.8	6142881	0° 49.438' W	55° 22.339' N	5
S C7b-042	663.27	257731.7	6142894	0° 49.428' W	55° 22.347' N	663.259	257738.7	6142903	0° 49.422' W	55° 22.351' N	11
S C7b-043	663.236	257753.6	6142920	0° 49.409' W	55° 22.361' N	663.23	257757.6	6142925	0° 49.405' W	55° 22.364' N	6
S C7b-045	662.931	257948.3	6143155	0° 49.237' W	55° 22.493' N	662.873	257984.8	6143200	0° 49.205' W	55° 22.519' N	58
S C7b-047	662.87	257986.7	6143202	0° 49.203' W	55° 22.520' N	662.843	258003.4	6143223	0° 49.189' W	55° 22.532' N	27
S C7b-049	662.838	258006.5	6143227	0° 49.186' W	55° 22.534' N	662.705	258089.5	6143331	0° 49.113' W	55° 22.592' N	133
S C7b-050	662.412	258274	6143559	0° 48.950' W	55° 22.720' N	662.354	258310.1	6143604	0° 48.919' W	55° 22.746' N	58
S C7b-052	662.255	258372.9	6143681	0° 48.863' W	55° 22.789' N	662.245	258379.3	6143688	0° 48.858' W	55° 22.793' N	10
S C7b-054	662.239	258383.1	6143693	0° 48.854' W	55° 22.796' N	662.174	258424	6143744	0° 48.818' W	55° 22.824' N	65
S C7b-056	661.908	258592.1	6143950	0° 48.670' W	55° 22.940' N	661.901	258596.5	6143955	0° 48.666' W	55° 22.943' N	7
S C7b-057	661.438	258889.8	6144313	0° 48.408' W	55° 23.144' N	661.431	258894.2	6144319	0° 48.404' W	55° 23.147' N	7
S C7b-059	660.604	259417.8	6144959	0° 47.942' W	55° 23.507' N	660.596	259423	6144965	0° 47.937' W	55° 23.511' N	8
S C7b-061	660.586	259429.3	6144973	0° 47.932' W	55° 23.515' N	660.517	259471.7	6145027	0° 47.895' W	55° 23.546' N	69
S C7b-062	660.454	259511.2	6145076	0° 47.860' W	55° 23.573' N	660.213	259663.8	6145263	0° 47.725' W	55° 23.678' N	241
S C7b-063	660.088	259743.1	6145360	0° 47.655' W	55° 23.732' N	660.034	259777.5	6145401	0° 47.625' W	55° 23.756' N	54
S C7b-064	659.768	259946.2	6145607	0° 47.476' W	55° 23.871' N	659.717	259978.7	6145646	0° 47.447' W	55° 23.893' N	51
S C7b-066	659.71	259983.1	6145652	0° 47.443' W	55° 23.896' N	659.698	259990.6	6145661	0° 47.437' W	55° 23.902' N	12

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
S C7b-068	659.693	259993.8	6145665	0° 47.434' W	55° 23.904' N	659.504	260114.8	6145810	0° 47.327' W	55° 23.986' N	189
S C7b-071	658.752	260588.4	6146394	0° 46.909' W	55° 24.314' N	658.749	260590.2	6146397	0° 46.908' W	55° 24.315' N	3
S C7b-073	658.743	260593.6	6146401	0° 46.905' W	55° 24.318' N	658.741	260594.8	6146403	0° 46.904' W	55° 24.319' N	2
S C7b-074	658.127	260984.2	6146878	0° 46.560' W	55° 24.585' N	658.117	260990.6	6146885	0° 46.554' W	55° 24.590' N	10
S C7b-075	657.651	261285.1	6147246	0° 46.294' W	55° 24.792' N	657.613	261309.3	6147276	0° 46.273' W	55° 24.809' N	38
S C7b-077	657.61	261311.2	6147278	0° 46.271' W	55° 24.810' N	657.608	261312.5	6147279	0° 46.270' W	55° 24.811' N	2
S C7b-078	657.558	261343.9	6147318	0° 46.242' W	55° 24.833' N	657.529	261362.1	6147341	0° 46.226' W	55° 24.846' N	29
S C7b-079	657.399	261445.1	6147441	0° 46.153' W	55° 24.902' N	657.387	261452.8	6147450	0° 46.146' W	55° 24.907' N	12
S C7b-080	657.152	261605.2	6147629	0° 46.011' W	55° 25.008' N	657.059	261663.7	6147701	0° 45.960' W	55° 25.048' N	93
S C7b-081	656.764	261851.7	6147929	0° 45.794' W	55° 25.176' N	656.753	261858.7	6147937	0° 45.787' W	55° 25.181' N	11
S C7b-082	656.641	261930.4	6148023	0° 45.724' W	55° 25.229' N	656.639	261931.7	6148025	0° 45.723' W	55° 25.230' N	2
S C7b-083	656.626	261940	6148035	0° 45.715' W	55° 25.236' N	656.584	261966.3	6148067	0° 45.692' W	55° 25.254' N	42
S C7b-084	656.406	262079.3	6148205	0° 45.592' W	55° 25.331' N	656.402	262081.8	6148208	0° 45.590' W	55° 25.333' N	4
S C7b-085	655.98	262349.9	6148534	0° 45.353' W	55° 25.516' N	655.961	262362.1	6148549	0° 45.342' W	55° 25.524' N	19
SC7b-086	655.747	262497.5	6148714	0° 45.223' W	55° 25.618' N	655.743	262499.9	6148718	0° 45.221' W	55° 25.619' N	4
SC7b-087	655.607	262585.4	6148823	0° 45.145' W	55° 25.679' N	655.597	262591.8	6148831	0° 45.140' W	55° 25.683' N	10
S C7b-088	656	262337	6148519	0° 45.365' W	55° 25.508' N	656	262337	6148519	0° 45.365' W	55° 25.508' N	18
S C7b-089	654.907	263026.3	6149367	0° 44.756' W	55° 25.984' N	654.867	263051.9	6149398	0° 44.733' W	55° 26.001' N	40
S C7b-091	654.18	263488.5	6149928	0° 44.347' W	55° 26.299' N	654.157	263503.1	6149946	0° 44.334' W	55° 26.309' N	23
S C7b-092	653.913	263658.4	6150134	0° 44.197' W	55° 26.415' N	653.881	263678.6	6150159	0° 44.179' W	55° 26.429' N	32
S C7b-093	653.736	263770.9	6150271	0° 44.097' W	55° 26.492' N	653.712	263786	6150289	0° 44.084' W	55° 26.502' N	24
S C7b-094	653.625	263841.2	6150357	0° 44.035' W	55° 26.540' N	653.623	263842.5	6150358	0° 44.034' W	55° 26.541' N	2
S C7b-095	653.478	263934.3	6150470	0° 43.953' W	55° 26.604' N	653.474	263936.8	6150474	0° 43.951' W	55° 26.606' N	4
S C7b-096	651.448	265218.5	6152043	0° 42.817' W	55° 27.487' N	651.385	265258.6	6152091	0° 42.781' W	55° 27.514' N	63
S C7b-097	651.292	265317.2	6152163	0° 42.730' W	55° 27.555' N	651.288	265319.7	6152167	0° 42.727' W	55° 27.556' N	4
S C7b-098	651.184	265385.8	6152247	0° 42.669' W	55° 27.602' N	651.102	265437.3	6152311	0° 42.623' W	55° 27.637' N	82
S C7b-100	650.838	265604.3	6152515	0° 42.476' W	55° 27.752' N	650.791	265634.4	6152551	0° 42.449' W	55° 27.772' N	47
S C7b-101 (berm)	650.655	265721	6152656	0° 42.372' W	55° 27.831' N	650.64	265730.8	6152667	0° 42.363' W	55° 27.838' N	15
S C7b-102	650.577	265770.6	6152716	0° 42.328' W	55° 27.865' N	650.532	265799.1	6152751	0° 42.303' W	55° 27.885' N	45

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ID	Start KP	Start Easting	Start Northing	Start Latitude	Start Longitude	End KP	End Easting	End Northing	End Latitude	End Longitude	Length (m)
S C7b-103 (berm)	650.374	265899.6	6152873	0° 42.214' W	55° 27.953' N	650.354	265912	6152889	0° 42.203' W	55° 27.962' N	20
S C7b-104	649.863	266222.7	6153269	0° 41.928' W	55° 28.175' N	649.833	266241.7	6153292	0° 41.911' W	55° 28.188' N	30
S C7b-105	649.675	266342	6153414	0° 41.822' W	55° 28.257' N	649.671	266344.6	6153417	0° 41.820' W	55° 28.259' N	4
S C7b-106	649.507	266452.2	6153541	0° 41.724' W	55° 28.328' N	649.501	266456.2	6153545	0° 41.721' W	55° 28.331' N	6
S C7b-107	649.337	266565.7	6153668	0° 41.623' W	55° 28.400' N	649.312	266582.5	6153686	0° 41.608' W	55° 28.410' N	25
S C7b-108	648.937	266825.5	6153972	0° 41.392' W	55° 28.571' N	648.932	266828.6	6153976	0° 41.390' W	55° 28.573' N	5
S C7b-109	648.916	266838.7	6153988	0° 41.381' W	55° 28.580' N	648.912	266841.2	6153991	0° 41.379' W	55° 28.582' N	4
S C7b-110	648.85	266880.6	6154039	0° 41.344' W	55° 28.609' N	648.829	266893.7	6154055	0° 41.332' W	55° 28.618' N	21
S C7b-111	646.547	268235.6	6155898	0° 40.153' W	55° 29.648' N	646.478	268277.9	6155953	0° 40.116' W	55° 29.678' N	69
S C7b-112	646.407	268320	6156010	0° 40.079' W	55° 29.710' N	646.404	268321.8	6156013	0° 40.077' W	55° 29.711' N	3
S C7b-113	646.331	268366.1	6156070	0° 40.038' W	55° 29.744' N	646.318	268374.9	6156079	0° 40.030' W	55° 29.749' N	13
S C7b-114 (berm)	646.11	268522.7	6156226	0° 39.897' W	55° 29.832' N	646.001	268600.8	6156302	0° 39.827' W	55° 29.875' N	109
S C7b-115	645.808	268739.3	6156436	0° 39.703' W	55° 29.951' N	645.795	268748.6	6156445	0° 39.694' W	55° 29.956' N	13
S C7b-116	645.567	268908.6	6156608	0° 39.551' W	55° 30.048' N	645.559	268914	6156614	0° 39.546' W	55° 30.052' N	8
S C7b-117	645.317	269078	6156792	0° 39.399' W	55° 30.152' N	644.702	269492.4	6157246	0° 39.029' W	55° 30.408' N	615
S C7b-118	644.665	269517	6157274	0° 39.007' W	55° 30.424' N	644.579	269575.3	6157337	0° 38.955' W	55° 30.460' N	86
S C7b-119	644.123	269896.5	6157660	0° 38.667' W	55° 30.643' N	644.1	269913	6157676	0° 38.652' W	55° 30.652' N	23