
Asset Inspection Document

Walk-over Visual Inspections of Assets

Prepared for

Scarborough Borough Council



A great place to live, work & play

NOVEMBER 2020



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Content Amendment Record

Version	Status	Signed off by:	Date signed	Date issued
1	First issue	N J Cooper	19/11/2020	25/11/2020

Asset Management Condition Survey

1.1. Disclaimer

Royal HaskoningDHV (RHDHV) has prepared this report in accordance with the instructions of our client Scarborough Borough Council (SBC) for the client’s sole and specific use. RHDHV has used reasonable skill, care and diligence in the collection of existing information and during the survey carried out and accepts no responsibility for the content, quality or accuracy of any Third-party information provided either to them by SBC or, via SBC from a Third-party source under this contract.

1.2. Outline

A detailed condition assessment was carried out between August and October 2020 by RHDHV. The inspections involved visual assessment of the principal coast protection assets.

The inspections were planned to coincide with suitable tidal states to ensure maximum visibility of the structures. However, the toe of defence assets around Castle Cliff and Scarborough Harbour are constantly submerged and therefore an inspection of only the visible elements from land has been undertaken. This also applies to the breakwaters at Whitby and Staithes. High beach levels also prevented visual inspections of the toe/foundations of structures in places. Inspections were made from both the seaward and landward side of defence where possible.

As in previous years, assets were visually inspected, photographed, graded based on their condition as defined in Table 1, 2 and 3 and an estimate was made of their residual life and urgency of repair work.

A	Very Good	No Defects
B	Fair	Minor or cosmetic defects that will not reduce the overall performance of the asset
C	Poor	Defects that would reduce the performance of the asset
D	Very Poor	Severe defects resulting in complete performance failure

Table 1: Condition Assessment Score

1	Urgent	To prevent a closure of any part of the building or address a breach of health and safety legislation
2	Essential	Will be required within 2 years
3	Desirable	Required within 3 to 5 years
4	Long Term	Required outside 5 years, stating the estimated duration

Table 2: Condition Assessment Priority Score

Priority	1	Yellow	Red	Red	Red
	2	Yellow	Yellow	Yellow	Red
	3	Green	Yellow	Yellow	Red
	4	Green	Green	Yellow	Yellow
		A	B	C	D
		Condition			

Table 3: Condition Assessment ratings

1.3. Study Area

This report documents the condition of the coastal assets of the North Yorkshire coast from Staithes in the north, to Filey Bay in the south. The study area comprises Filey, Cayton Bay, Scarborough Harbour and South Bay, The Homs and Castle Headland, Scarborough North Bay, Robin Hood’s Bay, Whitby, Sandsend, Runswick Bay, Port Mulgrave and Staithes. An overview of the study area is provided in Figure 1 below.

Detailed maps of the SBC assets are in **Appendix B**.



Figure 1: Study Area

Condition Assessment

Generally, the condition of the defences has not changed dramatically since inspections undertaken in summer 2020 except for:

- Minor supplementary damage;
- Maintenance and repairs undertaken/underway; or
- Capital schemes.

Where maintenance, repairs or capital works have been undertaken, the previous condition of the defences has improved, most notably at:

- Whitby Piers – where a capital scheme was completed in 2019 to refurbish the two main piers;


It is known that other works are planned imminently at Robin Hood's Bay to improve asset condition in this location.


It is recommended that regular yearly inspections and/or targeted surveys for specific assets are undertaken after a large tidal event or storm event where the stability and structural condition of these assets are most likely to be affected.

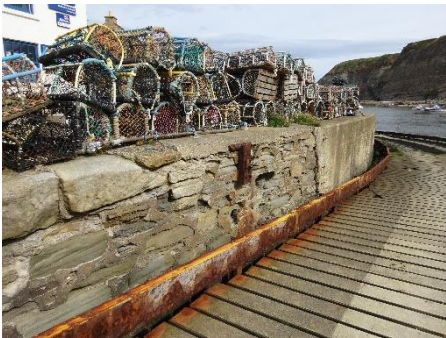
Appendix A - Condition Assessment Results


Staithes


Asset locations detailed on drawing 457730-01


SBC Reference:	N/A		
NFCDD reference:	1221D901D0402C01		
	Asset Location:	NZ78271901, NZ78441906. North breakwater.	
	Asset Length:	370.8	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	<p>Rock armour tightly packed to consistent profile. No evidence of significant displacement/movement. Possible local displacement of rock armour from crest at head of structure on inside east face. Two of stacked/pinned crest blocks missing adjacent to walkway (possible remains on foreshore). Heavily corroded steel sheet piling, particularly in uppermost 2m. Cracking to deck and crest wall. Crack to full width of deck and crest wall approx. 20m from seaward extent. Previous repair (grout/concrete infill) evident,</p> <p>Cracking and abrasion to crest, particularly coping on inside face. Rust staining of crest wall. Stainless steel guardrail in good condition although gap beneath bottom rail is large in areas with abrasion of crest.</p> <p>Possible evidence of undercutting of outer concrete face exposed by low beach levels close to landward end. Access ramp and concrete "baffles" at landward end in good condition. Approx. 0.5t armour rock sitting on concrete access ramp.</p>		
	Recommendations		
	<p>Grout voids in structure. Monitor rock armour at head (inside toe) and undercutting of inside concrete face (likely requiring boat survey). Repair crest locally or adjust guard railing to reduce risk of pedestrians falling.</p>		


SBC Reference:	N/A		
NFCDD reference:	1221D901D0402C02		
	Asset Location:	NZ78301893, NZ78271901. South of Northern breakwater.	
	Asset Length:	91.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	<p>Rock armour generally in good condition. Crest at northern extent appeared slightly lower (exposing concrete walkway behind). Rock armour on foreshore in front of toe – possibly displaced from crest.</p> <p>Concrete seawall at southern end in fair condition with exposed aggregate/abrasion and open joints, esp. close to crest. Minor cracking evident. Abrasion on wall crest and promenade.</p>		
	Recommendations		
	Continue to monitor. Reprofile rock at northern extent. Minor repairs to seawall (pointing/fill cracks).		


SBC Reference:	N/A		
NFCDD reference:	1221D901D0402C03		
	Asset Location:	NZ78251893, NZ78301893. RNLI slipway.	
	Asset Length:	55.3	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Abrasion / opening of horizontal construction joints in concrete wall. Slipway surface in good condition, but timber piles cracked and weathered. Gabion generally in good condition, but several baskets appear to have settled. Significant vegetation cover obscures much of gabions. Void in masonry river wall. Significant abrasion of masonry leaving mortar standing proud.		
	Recommendations		
Monitoring and repair cracks to wall. Infill void.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D0402C06		
	Asset Location:	Staithe, LB of River D/S of footbridge.	
	Asset Length:	100.3	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Promenade / road in fair condition. Wall has missing blocks and open joints locally. Vegetation growth at top of wall causing damage to concrete render. Voids in timber and masonry training wall – largely obscured by marine vegetation growth.		
	Recommendations		
Clear vegetation. Replace missing blocks and repoint open joints. Grout voids.			

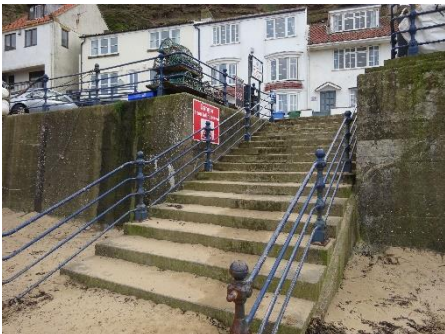
SBC Reference:	N/A		
NFCDD reference:	1221D901D0402C04		
	Asset Location:	NZ78261889, NZ78301886. South bank from bridge.	
	Asset Length:	117.1	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	<p>Repair work to parts of wall evident. Vegetation growing in locally. Minor cracks evident throughout wall. Open joints and loose masonry blocks locally (two areas in property walls backing onto Staithes Beck in poor condition as a result).</p> <p>Undercutting of toe reported in 2014 partially visible in 2018 not observed in 2020 due to higher beach and marine vegetation growth.</p>		
	Recommendations		
Clear vegetation. Repair cracks, repoint masonry, fill voids. Continue to monitor.			


SBC Reference:	02-04-01		
NFCDD reference:	1221D901D0402C22		
	Asset Location:	Between slipway and groyne on South wall.	
	Asset Length:	47.7	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	<p>Repairs evident to cracks and missing blocks replaced. Groyne in good condition (concrete and rock armour sections). Cracking and abrasion locally. Significant horizontal crack at base of structure wall on top of seawall. Vegetation growth throughout.</p>		
	Recommendations		
Clear vegetation. Repairs to walls joints, cracks and toe.			


SBC Reference:	03-04-01		
NFCDD reference:	1221D901D0402C05		
	Asset Location:	NZ78301886, NZ78361882. Between east groyne and slipway.	
	Asset Length:	70.5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Multiple cracks and spalling, but signs of multiple repair works. Some loose blocks to slip walls. Cracks along promenade. Additional toe berm placed along short length since 2012. Cope repair patches holding well.		
	Recommendations		
	Continue to monitor. Clear vegetation, repair cracks and joints.		


SBC Reference:	N/A		
NFCDD reference:	1221D901D0403C07		
	Asset Location:	NZ78361882, NZ78381885. In-between South slipways.	
	Asset Length:	32	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Groyne in good condition. Minor cracking to second "step". Vegetation cover at seaward end. Handrail in good condition.		
	Recommendations		
	Continue to monitor.		

SBC Reference:	04-04-01		
NFCDD reference:	1221D901D0403C01		
	Asset Location:	NZ78361882, NZ78421880 South wall next to last slipway.	
	Asset Length:	73.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Vertical full height cracks through the wall between access steps and groyne has been filled although would benefit from further attention due to abrasion at surface. Exposure of aggregate throughout wall. Vegetation growing at top of wall. Cracking to promenade.		
	Recommendations		
Continue to monitor and repair crack to wall and promenade cracking.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D0403C02		
	Asset Location:		
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Concrete steps in fair condition. Handrails in fair condition.		
	Recommendations		
Continue to monitor			

SBC Reference:	N/A		
NFCDD reference:	1221D901D0403C05		
	Asset Location:	NZ78421881, NZ78441881 Next to cliff.	
	Asset Length:	26.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Concrete ramp and steps in good to fair condition. Loss of joint filler and minor abrasion at exposed edges at construction joints.		
	Recommendations		
Continue to monitor. Replace joint filler.			

SBC Reference:	N/A		
NFCDD reference:	1221D901D0403C04		
	Asset Location:	NZ78431886, NZ78461884 Behind South breakwater.	
	Asset Length:	39	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Good condition concrete breakwater, some cracking in crest. Vegetation growth to vertical faces. Crack in vertical face at seaward end. At mid-length, vertical crack full width of deck and corresponding crack in vertical faces – appeared historic/stable. Handrails in good condition throughout.		
	Recommendations		
Fill cracks. Continue to monitor.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D0403C03		
	Asset Location:	NZ78491884, South Breakwater.	
	Asset Length:	327.5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Concrete crest cracked in the middle of the length. Rock armour mostly tightly packed and maintaining good profile although some smaller rocks displaced and sitting on top of rock armour and four rocks on concrete deck (at seaward end). Opening of construction joints to the old part of the wall (visible on inner face). Notable construction joint between wall concrete and crest concrete look to be widening esp. around historic ladders. Local cracking and loose concrete locally at crest on inside face at approx. Mid-length possibly as a result of vessel impact. Minor deformation of handrails in same location.		
	Recommendations		
Continue to monitor. Repair cracked/loose concrete at crest. Move smaller rock armour pieces from concrete crest.			


Port Mulgrave


SBC Reference:	N/A		
NFCDD reference:	1221D901D0502C01		
	Asset Location:	NZ79871763, NZ79941769. Port Mulgrave Pier.	
	Asset Length:	161.4	
	Condition Assessment		
	Condition	Priority	Risk
	D	1	
	Brief Description		
	The structure is considered redundant however still provides limited protection to the fishermen huts and base of the cliff.		
	Recommendations		
Not inspected - redundant			


Runswick Bay


Asset locations detailed on drawing 457730-02


SBC Reference:	07-07A-01		
NFCDD reference:	1221D901D0601C01		
	Asset Location:	NZ81081614, NZ81111619. Next to Upgarth Hill	
	Asset Length:	72.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Previously reported defects (erosion/abrasion & undercutting to the wall toe) were repaired via local concrete repairs in advance of construction of rock armour fillet as part of Coastal Protection Scheme (July 2018). Rock armour extends approx. 15m west of seawall to tie-in at Cauldron Cliff.		
	Wash out of the joints under the capping beam. Local cracking and abrasion/spalling of reinforced concrete coping/capping beam continues to worsen. Brittle/missing joint filler on promenade parallel to capping beam (up to 20mm wide joint). Vegetation growth in joints. Route for surface water to enter backfill – increased risk of freeze-thaw action. Differential settlement of promenade slabs. 10-		
	Recommendations		
	Local repairs to concrete coping, fill open joints. Remove vegetation. Replace joint filler. Continue to monitor.		


SBC Reference:	07-07A-02		
NFCDD reference:	1221D901D0601C01001		
	Asset Location:	Runswick Beck	
	Asset Length:	2	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Former Yorkshire Water (YW) gravity combined sewer connection into longshore outfall, redundant / filled with concrete during YW realignment works in 2017. YW manhole between rock armour fillets remains live - combined gravity sewer runs south to pumping station (beneath rock armour). Bag work and ad hoc concrete wall/repairs running up into Runswick Beck are generally in fair to poor condition but are protected to some extent by the rock armour. Provides informal access/egress to beach. Local damage to concrete manhole cover slab.		
	Recommendations		
	Continue to monitor. Remove vegetation and infill cracks.		


SBC Reference:	07-07A-03		
NFCDD reference:	1221D901D0601C06		
	Asset Location:	North side of Runswick Bay	
	Asset Length:	25.3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Rock armour fillet constructed as part of Coastal Protection Scheme (July 2018). Local repointing and repairing of cracks to masonry sea wall and concrete apron in advance of rock placement. Rock armour maintains good interlock and consistent profile throughout.		
	Recommendations		
Continue to monitor.			


SBC Reference:	08-07A-01		
NFCDD reference:	1221D901D0601C03		
	Asset Location:	NZ81001604, NZ81081614. North of breakwater.	
	Asset Length:	91.3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Rock armour fillet constructed as part of Coastal Protection Scheme (July 2018). Local repointing of masonry sea wall and repairs to coping in advance of rock placement. Minor cracking in concrete of promenade. Recessed mortar in structure and slope protection above seawall, to eastern extent of asset. Brittle/missing joint filler to promenade and concrete retaining wall to rear. Rock armour maintains good interlock and consistent profile throughout. Rock armour maintains good interlock and consistent profile throughout.		
	Recommendations		
Continue to monitor. Repair cracks, replace joint filler, repoint masonry of structures and slope protection.			


SBC Reference:	08-07A-02		
NFCDD reference:	1221D901D0601C03 001		
	Asset Location:	North of breakwater	
	Asset Length:	~7	
	Condition Assessment		
	Condition	Priority	Risk
	A	4	>5
	Brief Description		
	Reinforced concrete access steps constructed as part of Coastal Protection Scheme (July 2018). Precast RC step and landing units grouted onto mass concrete fill in advance of placing rock armour to both sides. Handrailing installed by SBC in August 2018. Flexible construction joints in good condition.		
	Recommendations		
Continue to monitor.			


SBC Reference:	08-07A-03		
NFCDD reference:	1221D901D0601C03 002		
	Asset Location:	North of breakwater	
	Asset Length:	~35	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Cracks, abrasion and voids previously reported in lower concrete seawall repaired through Yorkshire Water realignment work (2017) and local concrete repairs in advance of construction of rock armour fillet (July 2018). Repointing/repairs to masonry wall and coping locally. Minor cracking in concrete of promenade. Recessed mortar in structure and slope protection above seawall, to eastern extent of asset. Brittle/missing joint filler to promenade and concrete retaining wall to rear.		
	Recommendations		
Continue to monitor. Repair cracks, replace joint filler, repoint masonry of structures and slope protection.			


SBC Reference:	08-07A-04		
NFCDD reference:	1221D901D0601C02		
	Asset Location:	NZ81011606, NZ81031605.	
	Asset Length:	26.1	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	<p>Breakwater / groyne in poor condition overall. Landward section of structure covered by rock armour fillet (approx. 4m length of crest & 10m length on both faces). Smaller vertical cracks to breakwater at seaward end. Section of breakwater around elbow broken out temporarily to allow access for construction of Coastal Protection Works (this section was previously in very poor condition). Reinstated with 16m³ of in situ cast concrete in July 2018. Crack/displacement of concrete in crest of existing structure at seaward end of infill section.</p> <p>Extensive vegetation coverage. Significant abrasion. Opening of joint between crest and walls. Higher beach levels obscuring potential undercutting reported in 2018.</p>		
	Recommendations		
	Continue to monitor. Consider removal.		


SBC Reference:	08-07A-05		
NFCDD reference:	1221D901D0601C07001		
	Asset Location:	Runswick Bay Pumping Station	
	Asset Length:	7	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	<p>Yorkshire Water constructed concrete manhole chamber immediately to north in advance of Coastal Protection Scheme (July 2018). Remains in good condition as are handrails.</p> <p>Minor local damage/abrasion to surface and edges of concrete access steps. Several steps buried beneath sand. Minor loss of mortar locally.</p>		
	Recommendations		
	Continue to monitor.		


SBC Reference:	08-07A-06		
NFCDD reference:	1221D901D0601C07		
	Asset Location:	Runswick Bay. Pumping station.	
	Asset Length:	33.3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Pumping station with masonry cladding in good condition. Rock armour fillet constructed as part of Runswick Bay Coastal Protection Scheme completed July 2018. Minor loss of mortar locally. Small flap valve no longer operational and in need of replacement. Rock fillet in good condition – no evidence of global displacement.		
	Recommendations		
	Continue to monitor. Replace flap valve.		


SBC Reference:	09-07A-01		
NFCDD reference:	1221D901D0601C04		
	Asset Location:	NZ81011601. Lifeboat slipway.	
	Asset Length:	43.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Rotting timber supports to historic lifeboat slipway. Deck timbers in good condition. Cracks/open joints to side walls of Runswick Rescue slipway. Southern slipway / beach access ramp concrete in good condition with local abrasion at construction joints and minor longitudinal crack in top two panels. Concrete revetment including timber steps in good condition.		
	Recommendations		
	Repair cracks to slipway, replace rotten/missing timbers. Continue to monitor.		

SBC Reference:	09-07A-02		
NFCDD reference:	1221D901D0601C04 001		
	Asset Location:		
	Asset Length:	~30	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Concrete ramp in good condition. Minor damage / abrasion locally at concrete edges at construction joints. Minor longitudinal crack in centre of top two panels.		
	Recommendations		
	Continue to monitor.		

SBC Reference:	10-07A-01		
NFCDD reference:	1221D901D0602C01		
	Asset Location:	NZ81051591, NZ81011601	
	Asset Length:	290	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	<p>Rock armour generally in good condition. Consistent crest and slope profile. No evidence of significant global movement / displacement. Toe rocks well buried in sand. High level access ramp (Cleveland Way) well protected – armour stone “edging” remains in place. Backfill/surfacing (smaller rocks and sand) in poor condition (washed away). Understood this is regularly replaced.</p>		
Recommendations			
Continue to monitor.			


SBC Reference:	10-07B-01		
NFCDD reference:	1221D901D0602C01001		
	Asset Location:	NZ81051591, NZ81011601	
	Asset Length:	~50	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	<p>Concrete slipway in good condition. Vegetation growth associated with Nettle Beck which outfalls through the rock armour and over the ramp surface in high flows.</p>		
Recommendations			
Continue to monitor.			


SBC Reference:	10-07B-02		
NFCDD reference:	1221D901D0602C01002		
	Asset Location:		
	Asset Length:	~48	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	<p>Southern extent of revetment refurbished in June 2018 using surplus rock armour from CPS. Rock is generally 8-10t. Seaward edge of high-tide access ramp lined with single row of rock armour and revetment bolstered with rock armour (previously smaller armour and beach-won boulders were used). Rock armour extends approx. 30m to the south to form fillet at toe of active coastal slopes. High level access ramp (Cleveland Way) well protected – armour stone “edging” remains in place. Backfill/surfacing (smaller rocks and sand) in poor condition (washed away). Understood this is regularly replaced.</p>		
	Recommendations		
Continue to monitor. Replace smaller backfill as required.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D0602C05		
	Asset Location:	South end of bay.	
	Asset Length:	56.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	<p>North: Rock armour slope protection at mouth of stream. Concrete seawall and apron above timber toe beams (likely permanent formwork). South: Boulders and concrete blocks placed informally on/in front of retaining wall formed from timber sleepers fixed between vertical steel columns. Boulders and large concrete tank blocks to tie into coastal slope.</p>		
	Recommendations		
Continue to monitor. Replace/reprofile rock to protect timber retaining wall.			


Sandsend


Asset locations detailed on drawing 457730-03


SBC Reference:	13-09A-01		
NFCDD reference:	1221D901D0701C02 001		
	Asset Location:	NZ86061286, NZ85981297. Wall protecting car park.	
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Heavily corroded sheet pile retaining wall tied into the unprotected cliff. No deflection / movement of the pile noticeable. Concrete capping appears in good condition. It has previously been observed that minor abrasion at toe has caused some exposed reinforcement, but this was covered by beach sand.		
	Recommendations		
	Continue to monitor corrosion of piles and erosion of undefended cliff at tie-in.		


SBC Reference:	13-09A-02		
NFCDD reference:	1221D901D0701C02		
	Asset Location:	NZ86061286, NZ85981297. Wall protecting car park.	
	Asset Length:	174.5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Sloping concrete revetment with a recurve crest wall. The concrete wall remains in fair condition with minimal damage to the surface, however the revetment has lost thickness of concrete at the base through abrasion, with exposure of reinforcement bars previously reported (not seen during present inspections due to high beach levels).		
	Recommendations		
	Encasement of this reinforcement is advised from a structural perspective, as well as preventing any Health & Safety incidents occurring due to sharp edges of the exposed bars on this popular amenity beach. Cracks towards southern end (near slipway) need filling.		



SBC Reference:	13-09A-03		
NFCDD reference:	1221D901D0701C02002		
	Asset Location:		
	Asset Length:	~15	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Missing filler in joints to slipway's blockwork wing-wall. Toe at interface of slipway and adjacent seawall previously reported as being locally poor but covered during inspections due to high beach levels.		
	Recommendations		
Continue to monitor toe and fill gaps in joints on wing-wall.			


SBC Reference:	14-09B-01		
NFCDD reference:	1221D901D0702C01		
	Asset Location:	NZ86061286, NZ86241268	
	Asset Length:	259.1	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Groynes derelict. Apron fully buried so not observed, but previously recorded as being very poor with adjacent timber planks and stakes missing and rotten. Missing joint filler under capping beam. Some sections of missing sealant in most joints in wall, with minor abrasion around joints.		
	Recommendations		
Re-seal joints where missing between poured sections of sea wall and replace/encase apron. Whilst not yet 'urgent' the structure would benefit from works within a few years.			



SBC Reference:	14-09B-02		
NFCDD reference:	1221D901D0702C01001		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Steps abraded on lower sections. Handrail replaced or painted since 2018, with lowest section corroded.		
	Recommendations		
	Continue to monitor.		



SBC Reference:	14-09B-03		
NFCDD reference:	1221D901D0702C01002		
	Asset Location:	Same as 14-09B-01	
	Asset Length:	Incl. in 14-09B-01	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Groynes derelict. Apron fully buried so not observed, but previously recorded as being very poor with adjacent timber planks and stakes missing and rotten. Some sections of missing sealant in most joints in wall, with minor abrasion around joints.		
	Recommendations		
Re-seal joints where missing between poured sections of sea wall and replace/encase apron. Whilst not yet 'urgent' the structure would benefit from works within a few years.			


SBC Reference:	14-09B-04		
NFCDD reference:	1221D901D0702C01003		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Steps abraded on lower sections. Handrail replaced or painted since 2018, with lowest section corroded.		
	Recommendations		
Continue to monitor.			


SBC Reference:	14-09B-05		
NFCDD reference:	1221D901D0702C01004		
 	Asset Location:	Same as 14-09B-01	
	Asset Length:	Incl. in 14-09B-01	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Groynes derelict. Apron fully buried so not observed, but previously recorded as being very poor with adjacent timber planks and stakes missing and rotten. Missing joint filler under capping beam. Some sections of missing sealant in most joints in wall, with minor abrasion around joints.		
	Recommendations		
Re-seal joints where missing between poured sections of sea wall and replace/encase apron. Whilst not yet 'urgent' the structure would benefit from works within a few years.			


SBC Reference:	14-09B-06		
NFCDD reference:	1221D901D0702C01005		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Steps abraded on lower sections. Handrail replaced or painted since 2018, with lowest section corroded.		
	Recommendations		
Continue to monitor.			


SBC Reference:	14-09B-07		
NFCDD reference:	1221D901D0702C01006		
 	Asset Location:	Same as 14-09B-01	
	Asset Length:	Incl. in 14-09B-01	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Groyne derelict. Apron fully buried so not observed, but previously recorded as being very poor with adjacent timber planks and stakes missing and rotten. Missing joint filler under capping beam. Some sections of missing sealant in most joints in wall, with minor abrasion around joints.		
Recommendations			
Re-seal joints where missing between poured sections of sea wall and replace/encase apron. Whilst not yet 'urgent' the structure would benefit from works within a few years.			


SBC Reference:	15-09B-01		
NFCDD reference:	1221D901D0702C04		
 	Asset Location:	NZ86251264, NZ86241268. NE of East Row Bridge.	
	Asset Length:	42.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Steel toe piles exposed in 2016 and looked very corroded but buried/submerged by ponded water in 2018 and only one small section exposed in 2020 (showing corrosion). Groyne derelict. Vertical crack to masonry wall near pipe at centre of wall. Some mortar missing in some joints in masonry wall. Timber walkway in good condition.		
Recommendations			
Expose and repair voids under toe apron.			


SBC Reference:	15-09B-02		
NFCDD reference:	1221D901D0702C03		
	Asset Location:		
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway in good condition overall. One or two gaps in the blockwork wing wall recorded in 2018 have now been infilled.		
	Recommendations		
Continue to monitor.			


SBC Reference:	15-09B-03		
NFCDD reference:	1221D901D0702C03 001		
	Asset Location:	NZ86211252, NZ86251264. Wall extending from East Row Bridge	
	Asset Length:	232.4 total (15-09b-03 to 15-09b-05)	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Masonry blockwork wall to channel sides increasing in height at café. Overall, in fair to good condition. Minor abrasion to a few blocks, missing mortar in occasional joints near cafe.		
	Recommendations		
Repoint wall on 'as needs' basis. Continue to monitor.			


SBC Reference:	15-09B-04		
NFCDD reference:	1221D901D0702C03 002		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Fair overall condition. Edge capping stone missing. Toe below beach level.		
	Recommendations		
Repair capping edge. Continue to monitor.			

SBC Reference:	15-09B-05		
NFCDD reference:	1221D901D0702C03003		
	Asset Location:		
	Asset Length:	232.4 total (15-09b-03 to 15-09b-05)	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Masonry blockwork wall to channel sides in fair to good condition.		
	Recommendations		
Continue to monitor.			

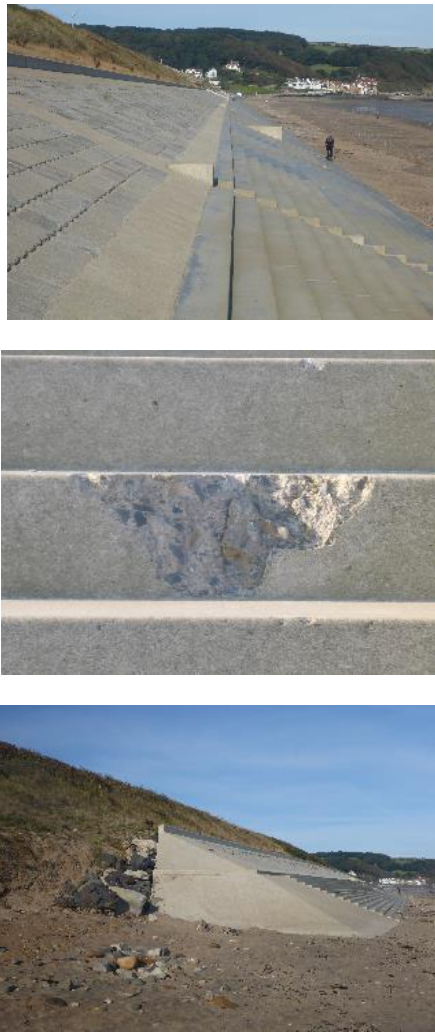
SBC Reference:	15-09B-07		
NFCDD reference:	1221D901D0702C02001		
	Asset Location:		
	Asset Length:	774.5 total (15-09b-06 to 17-10-02)	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Slipway in good condition with toe below beach level. Adjacent concrete tie-ins to either side of slipway in good condition.		
	Recommendations		
Continue to monitor			

SBC Reference:	16-09C-01		
NFCDD reference:	1221D901D0702C02002		
	Asset Location:		
	Asset Length:	774.5 total (15-09b-06 to 17-10-02)	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Good overall condition. Sloping revetment with blockwork wall. Toe of wall below beach level but some open joints in exposed sections.		
	Recommendations		
Repoint joints in blockwork wall below revetment.			

SBC Reference:	16-09C-02		
NFCDD reference:	1221D901D0702C02003		
	Asset Location:		
	Asset Length:	774.5 total (15-09b-06 to 17-10-02)	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Steps in fair overall condition. Concrete revetment on the landing is abraded in places.		
	Recommendations		
Continue to monitor.			


SBC Reference:	16-09C-04 to 17-10-02		
NFCDD reference:			
	Asset Location:		
	Asset Length:		
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	The gabion baskets have not filled completely with visible sagging on the bottom row. The top row has remained vertical. Seems to be holding at the moment. Baskets founded on stone blocks but these were buried at the time of the inspections (Previously have been exposed along its length to 3 or 4 courses of blocks in height, showing 1 block missing and plugged with a beach boulder and large cobbles being used as a plug at the toe in the western end adjacent to the gabions).		
	Recommendations		
Continue to monitor.			




SBC asset refs 15-09B-06 and 16-09C-04 to 17-10-02 (previously failing structures) replaced by one new asset along the entire length in 2016

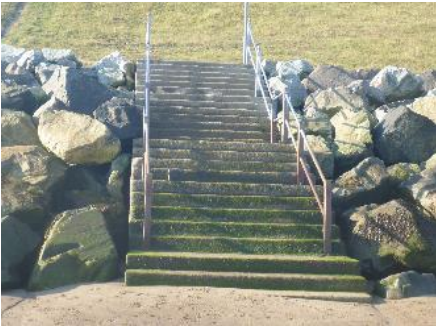
SBC Reference:	15-09B-06 and 16-09C-04 to 17-10-02		
NFCDD reference:			
	Asset Location:		
	Asset Length:	774.5	
	Condition Assessment		
	Condition	Priority	Risk
	A	4	>5
	Brief Description		
	<p>Coastal defences constructed between early 2015 and summer 2016. The new defences comprise a lower section with a stepped revetment built from pre-cast concrete units and a buried concrete toe beam that was cast <i>in situ</i>, with an upper section of interlocking pre-cast Dycel units.</p> <p>Natural coastal slope extends above the upper units to the plateau upon which the highway and footpaths sit, with re-graded and stabilised high coastal slopes to landward of the road.</p> <p>Sloping concrete tie-in revetments exist at either end of the structure.</p> <ul style="list-style-type: none"> • Outfall drains freely running • Toe beam and lower steps of revetment covered with beach sand • Some chipping damage to edge of steps (confined to lower steps on western end but becoming more frequent and higher up the structure to its central and southern sections). • Outflanking at eastern end has not worsened since being addressed by large beach boulders 		
	Recommendations		
	Continue to monitor.		


Whitby


Asset locations detailed on drawing 457730-04


SBC Reference:	18-11A-01		
NFCDD reference:	1221D901D0801C01001		
	Asset Location:	NZ88161194, NZ88541185	
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Concrete edge of slipway chipped at construction joint. Overall good condition. Toe below beach level. Rock armour both sides tightly packed.		
	Recommendations		
Continue to monitor.			


SBC Reference:	18-11A-02		
NFCDD reference:	1221D901D0801C01		
  	Asset Location:	NZ88161194, NZ88541185	
	Asset Length:	439.3	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Rock armour generally good, well packed but movement in several local areas. Some smaller armour loosely packed on crest.		
	Promenade has occasional minor open joints / cracks / missing sealant, but nothing appears to have worsened since previous inspections.		
Localised damages to rear 'splash' wall observed.			
Recommendations			
Continue to monitor surface cracking in promenade and reactive repairs on an 'as needs' basis.			


SBC Reference:	18-11A-03		
NFCDD reference:	1221D901D0801C01002		
	Asset Location:		
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Steps with algae on lower courses. Heavy abrasion on lower sections of steps.		
	Recommendations		
Continue to monitor.			


SBC Reference:	18-11A-04		
NFCDD reference:	1221D901D0801C01003		
	Asset Location:	Part of 18-11A-02	
	Asset Length:		
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Rock revetment – remainder of 18-11A-02 - appears in generally good condition.		
	Recommendations		
Continue to monitor.			


SBC Reference:	19-11A-01		
NFCDD reference:	1221D901D0802C01		
	Asset Location:	NZ88541185, NZ88671180	
	Asset Length:	136.6	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Concrete wall has extensive minor cracking. Heavy abrasion over whole lower part of wall. Toe heavily abraded. Local damage to capping has been repaired in the past. Promenade has no major defects. Handrails have been replaced in relatively recent years.		
	Note – Cliffs behind this section in poor condition with past slippages evident.		
	Recommendations		
	Consider placing rock armourstone at toe of wall to create one continuous revetment, rather than leaving this small gap.		


SBC Reference:	70-11A-01		
NFCDD reference:	1221D901D0802C02		
	Asset Location:	NZ88671180, NZ88861170	
	Asset Length:	216.1 (incl. 70-11a-01 to 70-11a-04)	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Rock armour in good condition, closely packed, and good coverage. Some smaller rocks on crest lost interlock. Promenade surface showing some signs of cracking and sealant loss between concrete sections.		
	Recommendations		
	Continue to monitor.		


SBC Reference:	70-11A-02		
NFCDD reference:	1221D901D0802C02 001		
	Asset Location:	Western promenade, Whitby	
	Asset Length:	216.1 (incl. 70-11a-01 to 70-11a-04)	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Steps with algae on lower courses. Heavy abrasion on lower sections of steps.		
	Recommendations		
Continue to monitor			


SBC Reference:	70-11A-03		
NFCDD reference:	1221D901D0802C02 002		
	Asset Location:	Western promenade, Whitby	
	Asset Length:	216.1 (incl. 70-11a-01 to 70-11a-04)	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Rock armour in good condition, closely packed, and good coverage. Some smaller rocks on crest lost interlock. Promenade surface showing some signs of cracking and sealant loss between concrete sections.		
	Recommendations		
Continue to monitor.			



SBC Reference:	70-11A-04		
NFCDD reference:	1221D901D0802C02 003		
	Asset Location:	Western promenade, Whitby	
	Asset Length:	216.1 (incl. 70-11a-01 to 70-11a-04)	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Tread of steps in fair condition. Side wall corner is heavily abraded. Handrail corroded and missing bolt fixing at the bottom. Heavy abrasion on lower sections of steps.		
	Recommendations		
Treat or replace handrails.			


SBC Reference:	71-11A-01		
NFCDD reference:	1221D901D0802C03		
	Asset Location:	NZ88861170, NZ89231154	
	Asset Length:	166.8	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Lower half of wall abraded/eroded. Toe apron exposed along whole length due to low sand level but heavily covered by seaweed. Previous records of apron missing locally and in poor condition. Promenade fair, signs of wave overtopping causing damage. Handrails anchor bolts corroding. The concrete toe has been repaired at the eastern end.		
	Recommendations		
Consider extending rock armour along this section.			


SBC Reference:	71-11A-02		
NFCDD reference:	1221D901D0802C13 001		
	Asset Location:	Western promenade, Whitby	
	Asset Length:	~ 4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Tread repaired half way up the steps. Sheet pile toe is only slightly exposed with steel capping. The steel rise 'facing' on the bottom step was exposed in the previous inspections and had moved seaward and was coming away on 'corner' (but was covered by beach levels in present inspections). Handrail in generally good condition. Heavy abrasion on lower sections of steps.		
	Recommendations		
Continue to monitor			


SBC Reference:	71-11A-03		
NFCDD reference:	1221D901D0802C13		
	Asset Location:	NZ88861170, NZ89231154	
	Asset Length:	158.4	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Horizontal cracks to wall visible near slipway, east of Beach Management Centre and North Beach cafe. Beach level high and wall's toe not exposed. Handrail is relatively new. Some anchor bolts showing signs of corrosion. Concrete facing weathered/abraded.		
	Recommendations		
Repair cracks (likely cold joints) to wall near slipway.			


SBC Reference:	71-11A-04		
NFCDD reference:	1221D901D0802C13002		
	Asset Location:	Western promenade, Whitby	
	Asset Length:	~12	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Lower section of slipway has been repaired since previous inspection, but wing wall still has abrasion.		
	Recommendations		
Continue to monitor			


SBC Reference:	71-11A-05		
NFCDD reference:	1221D901D0802C14		
 	Asset Location:	NZ88861170, NZ89231154	
	Asset Length:	86.2	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Erosion/abrasion to lower half of wall. Minor damage throughout. Apron buried (was partly exposed in 2018). Minor cracking to promenade throughout. Areas of chipping/cracking along top edge. Handrails have been replaced relatively recently.		
	Recommendations		
Repair chipped areas approx. 0.5m from edge throughout.			


SBC Reference:	20-11A-01		
NFCDD reference:	1221D901D0802C04 001		
	Asset Location:	Western promenade, Whitby	
	Asset Length:	~7	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Steps. Weathered concrete with exposed aggregates. Abraded side walls with large cracks. Handrail in fair condition. Heavy abrasion on lower sections of steps.		
	Recommendations		
Repair cracks. Continue to monitor.			


SBC Reference:	20-11A-02		
NFCDD reference:	1221D901D0802C04		
	Asset Location:	NZ89231154, NZ89291153	
	Asset Length:	65.4	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	<p>One minor vertical crack / joint in eastern third of wall. Concrete coping replaced at western end. Erosion/abrasion to lower half of wall, including exposed sections of apron. Lower handrails have been replaced relatively recently (set back from edge). Minor cracking to promenade.</p>		
	Recommendations		
	Repair abraded front face. Infill crack.		


SBC Reference:	21-11A-01		
NFCDD reference:	1221D901D0802C07		
	Asset Location:	NZ89291153, NZ89361152	
	Asset Length:	71.9	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	<p>Blockwork wall - cracking/loss of mortar and abraded blocks in places. Joints missing locally. Generally stable although these points of weakness could cause failure. Higher concrete wall in a fair condition. Minor cracking in promenade. New coping beam since 2014.</p>		
	Recommendations		
	Repair/replace damaged blocks and grout joints.		


SBC Reference:	21-11A-02		
NFCDD reference:	1221D901D0802C07 001		
	Asset Location:		
	Asset Length:	~30	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Slipway. Concrete deck replaced on the top half of the structure - bottom half abraded.		
	Recommendations		
Continue to monitor.			


SBC Reference:	22-11A-01		
NFCDD reference:	1221D901D0802C06		
	Asset Location:	NZ89361152, NZ89401152	
	Asset Length:	37.5	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Blockwork wall with many previously open joints now repointed. High beach levels covered previously reported abrasion and loss of blocks and mortar in lower section and under ramp. No water seen seeping through wall as observed in 2012 and 2016. Cracks in coping of upper wall behind sea wall.		
	Recommendations		
Repair or encase toe. Repair cracking in masonry wall.			


SBC Reference:	22-11A-02		
NFCDD reference:	1221D901D0802C06 001		
	Asset Location:		
	Asset Length:	30	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Slipway. Mixed construction. Settlement of toe remediated with concrete transition slope. Open joints between blocks revetment and occasional cracks and voids. Toe covered by high beach levels, but previously reported as being heavily abraded. Wing walls in fair condition.		
	Recommendations		
Repair joints, cracks and voids. Continue to monitor.			

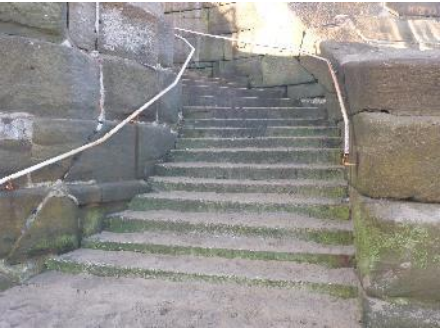
SBC Reference:	22-11A-03		
NFCDD reference:	1221D901D0802C15		
	Asset Location:	Beneath red brick building (Whitby Pavilion).	
	Asset Length:	71.8	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Concrete toe showing signs of cracking, abrasion and loss of concrete and undercutting. Evidence of previous repairs. Blockwork walls below Pavilion appear sound but some loss of mortar. Slips in cliff between upper wall and toe structure. One block missing from smaller blockwork wall just west of Pavilion.		
	Recommendations		
	Stabilise and repair cliff. Repair toe.		


SBC Reference:	N/A		
NFCDD reference:	1221D901D0802C05		
	Asset Location:	NZ89401152, NZ89511152	
	Asset Length:	43.1	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Concrete apron seaward of timber breastwork was buried at its toe, but previous inspections reported undercutting with large voids beneath and part of the lower section of apron breaking up. Blockwork walls below Pavilion and its access road appear sound but slips / falls in cliff below and some loss of mortar.		
	Recommendations		
	Repairs to toe.		



SBC Reference:	24-11B-01		
NFCDD reference:	1221D901D0802C09		
	Asset Location:	NZ89541152, NZ89651151	
	Asset Length:	115.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	High sections of blockwork sea wall facing in between in-situ rock outcrops. Sections of masonry appear sound condition, some mortar loss, but not worse than noted previously. In several locations tie-in of edges into cliff is getting outflanked / abraded.		
	Recommendations		
Repair edges of panels where tie- in to cliff			

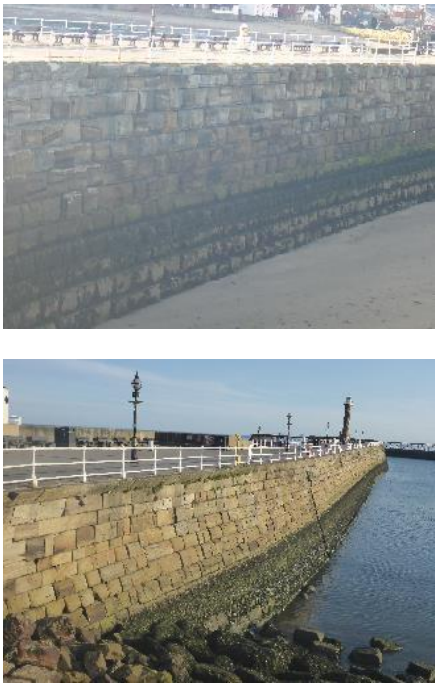
SBC Reference:	25-11B-01		
NFCDD reference:	1221D901D0802C10		
	Asset Location:	NZ89771147, NZ89781150. West side of West Pier.	
	Asset Length:	26.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	In situ concrete retaining wall. Abrasion has led to areas of exposed aggregates. Fair condition overall despite abraded face. Minor slip in cliff above wall has not worsened since previous inspections.		
	Recommendations		
Continue to monitor.			


SBC Reference:	25-11B-02		
NFCDD reference:	1221D901D0802C12002		
	Asset Location:	NZ89781150, NZ89861150	
	Asset Length:	~7	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Landing area has evidence of repairs and repointing to upper blocks. Open gaps between blocks on wing wall (west face).		
	Recommendations		
Continue to monitor.			


SBC Reference:	25-11B-03		
NFCDD reference:	1221D901D0802C12 003		
	Asset Location:	NZ89781150, NZ89861150	
	Asset Length:	~7	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Toe and lower steps covered by high beach levels. Steps in fair condition, with abrasion on lower courses.		
	Recommendations		
	Continue to monitor.		


SBC Reference:	26-11B-01		
NFCDD reference:	1221D901D0802C12		
	Asset Location:	NZ89781150, NZ89861150 Start of west pier at slipway.	
	Asset Length:	87.7	
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	Battery wall. Deep voids between blockwork, with a few blocks vertically cracked. Voids between corners of blocks. Slipway wall capping beam and wall to west is abraded, with a displaced block. Damaged apron. Promenade in fair condition.		
	Recommendations		
	Continue to monitor and repair deep voids and cracks.		


SBC Reference:	26-11B-02		
NFCDD reference:	1221D901D0802C12001		
	Asset Location:	NZ89781150, NZ89861150	
	Asset Length:	~12	
Condition Assessment			
Condition		Priority	Risk
B		3	
Brief Description			
<p>Slipway in fair condition. Toe below beach level.</p> <p>Wall built at top of slipway as part of capital scheme in 2019 to deflect wave run-up back into the harbour. Some sand accumulating on seaward side of wall should be periodically cleared.</p>			
Recommendations			
<p>Continue to monitor condition of slipway and start to record the performance of the wave deflector wall during surge and storm events.</p>			
			



SBC Reference:	27-11B-01		
NFCDD reference:	1221D901D0803C02		
	Asset Location:	NZ89861145, NZ89931173 West pier.	
	Asset Length:	639.7	
	Condition Assessment		
	Condition	Priority	Risk
	A	4	
	Brief Description		
	No visible defects following capital works.		
Recommendations			
Major refurbishment undertaken in 2018/19.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C01		
	Asset Location:	NZ89921172, NZ89921187 West breakwater arm.	
	Asset Length:	315.5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Overall fair condition but limited inspection as toe is covered in water even at low tide. Abrasion to edges of concrete structure and exposure of aggregate. Timber supporting structure weathered.		
Recommendations			
Continue to monitor and replace planks in promenade deck as necessary. Detailed low water inspection from vessel recommended every 10 years.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C06		
	Asset Location:	West bank, Whitby Harbour	
	Asset Length:	215.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Timber edge beam and fenders recently replaced. Metal deck support piles to suspended quay deck are corroding. Original sandstone blockwork wall viewed from ends only but looks fair. Some voids to blockwork.		
	Recommendations		
Detailed inspection of supporting piles to deck required			


SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C07		
	Asset Location:	West bank, Whitby Harbour	
	Asset Length:	157.4	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Timber fenders along length, vegetation to upper part of wall. Promenade in good condition. Lower wall obscured by seaweed. Steps cracked and open joints at mid-length. Concrete steps repaired but cracking and abrasion still evident. No handrail.		
	Recommendations		
Repair and repoint joints at steps.			



SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C10		
	Asset Location:	East bank, D/S of Whitby Bridge	
	Asset Length:	135.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No direct access but appears in fair condition when viewed from distance (limited access, visual inspection from RNLI and bridge). Some joint washout to riparian walls. Area of damage to blocks 20m downstream of bridge. Concrete apron near to the bridge appears in fair condition including		
	Recommendations		
Continue to monitor – repair washed out joints to wall			

SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C08		
 	Asset Location:	West bank, Whitby Harbour RNLI Station and Pier.	
	Asset Length:	391.3	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Very weathered blocks with gaps on east side of old RNLI pier but overall fair.		
	High levels of abrasion, marine growth and steel sheet pile corrosion to old Boathouse 'block'		
	Coping damage on the slipway but fair overall condition.		
	Walls between piers of mixed construction, fair to poor condition. Missing mortar between blocks and cracked blocks.		
Tate Hill Pier has deep joints and block eroding. Steps weathered with corroding handrail at bottom section. Top revetment in fair condition. Healthy beach sand on north side of pier.			
Recommendations			
Fill voids, cracks and open joints.			

SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C09		
	Asset Location:	South of Collier Hope and Mussel Beds	
	Asset Length:	154.9	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Riparian walls of (variably) brickwork, sandstone, and boulder construction in various conditions, some quite poor. Protected by sand and cobble beach. Spalling to the render and exposure of the aggregate. Slipway and steps weathered with missing joints.		
	Recommendations		
	Continue to monitor, repoint where needed. Replace missing blocks.		


SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C05		
	Asset Location:	NZ90171146, NZ90421143. East side of pier.	
	Asset Length:	420.7	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Rock armour previously described as very poor but appears generally fair on both 2018 and present inspection, although tends to taper out and could be improved in length and height. There is bare vegetation in the near-vertical section of cliff above the revetment and some exposed erosion-control matting.		
	Recommendations		
	Continue to monitor.		


SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C03		
  	Asset Location:	NZ90161146, NZ90001174. East Pier.	
	Asset Length:	637	
	Condition Assessment		
	Condition	Priority	Risk
	A	4	
	Brief Description		
No visible defects following capital works to walls, toe, deck. Signs erected warning users of winds, wave overtopping, trips, edges.			
Recommendations			
Major refurbishment undertaken in 2018/19.			

SBC Reference:	N/A		
NFCDD reference:	1221D901D0803C04		
 	Asset Location:	NZ90041172, NZ89971186. East breakwater.	
	Asset Length:	330.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Access now possible due to replacement bridge erected in 2019.		
	Overall fair condition but limited inspection as toe is covered in water even at low tide.		
	Recommendations		
	Continue to monitor and replace planks in promenade deck as necessary. Detailed low water inspection from vessel recommended every 10 years.		


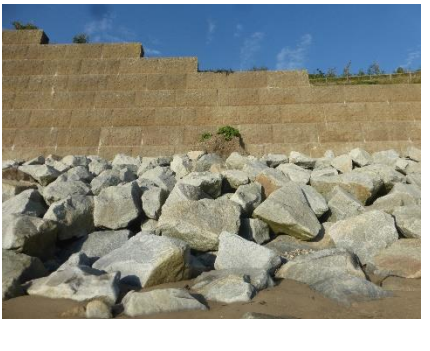
Robin Hood's Bay


Asset locations detailed on drawing 457730-05


SBC Reference:	32-16A-01		
NFCDD reference:	1221D901D1002C02		
	Asset Location:	Robin Hood's Bay.	
	Asset Length:	59.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Rock armour remains tightly packed and in good condition. Installed in 2001. Some activity on cliffs to rear.		
	Recommendations		
	Continue to monitor condition of revetment and impact of any localised rockfall.		


SBC Reference:	32-16A-02		
NFCDD reference:	1221D901D1003C01001		
	Asset Location:	Robin Hood's Bay.	
	Asset Length:	~70	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway of mixed construction, fair condition in 2020. Periodic minor rockfall activity on slope above slipway. Missing section of fence between slipway and sea wall repaired.		
	Recommendations		
	Consider extending rock netting on slope above slipway. Continue to monitor.		


SBC Reference:	33-16A-01
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NFCDD reference:	1221D901D1003C01		
	Asset Location:	NZ95340504, NZ95270520	
	Asset Length:	183.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	<p>Wall was built in 2001. Rock armour in good condition with good coverage, profile and interlock. Slipway ramp in good condition, some abrasion to slab and joints near toe. Fence / edge protection repaired since previous inspection as indicated above.</p>		
<p>Precast concrete sea wall in good condition. Short section of blocks missing from along the crest of the wall. This is assumed to be a historic defect. There is a small accumulation of material on the revetment crest, this does not appear to have changed since 2018.</p>			
Recommendations			
Continue to monitor.			

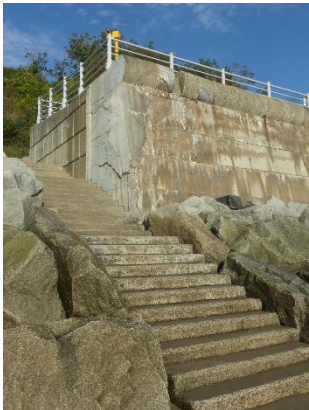
SBC Reference:	33-16A-02		
NFCDD reference:	1221D901D1003C02		
	Asset Location:	NZ95330488, NZ95310502	
	Asset Length:	150.5	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	<p>Toe not visible high beach levels. Concrete wall in poor condition. Wall displays surface cracking, spalling, rust staining and mineral encrustation. Defects appear significantly worse at northern transition. Transition is an area of longstanding outflanking concern; a recent mass concrete repair appears to have improved the condition in the lower reaches of the wall. Headscarp recession of the adjoining cliff has increased outflanking risk at the wall crest.</p> <p>Wall crest shows further cracking and spalling. Signs of recent and ongoing repairs and repainting on crest wall. Prom fair.</p>		
	Recommendations		
	Continue to monitor. Undertake capital repairs.		


SBC Reference:	34-16A-01		
NFCDD reference:	1221D901D1003C04		
	Asset Location:	NZ95320486, NZ95330488	
	Asset Length:	29.3	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	<p>Repairs to open joints and voids noted and appear to be working effectively. Some areas of surface erosion and joint washout still exist. Voids and open joints in masonry near tie in to concrete wall have been grouted. Beach levels cover toe and obscure view of previously reported void.</p>		
	Recommendations		
	Continue to monitor remaining voids and joints. Monitor repairs. Perform detailed inspection of wall toe when beach levels drop.		


SBC Reference:	35-16B-01		
NFCDD reference:	1221D901D1003C05		
	Asset Location:	NZ95310485, NZ95320486	
	Asset Length:	15.6	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway generally in fair condition. Some cracking but appears stable at present. Previous repairs are generally effective and in good condition. A number of cracks and small voids remain, particularly on the concrete apron, which is undercut and generally in poor condition.		
	Recommendations		
Continue to monitor, reactive maintenance, repoint as necessary. Monitor beach levels and extent of undercutting to concrete apron.			


SBC Reference:	36-16B-01		
NFCDD reference:	1221D901D1003C06		
	Asset Location:	NZ95310481, NZ95310485	
	Asset Length:	51.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	Patchwork of repairs/repointing throughout. Void / undercutting to south end of concrete toe. Large crack through concrete toe and blinding layer at dogleg.		
	Recommendations		
Continue to monitor and repoint/repair. Repair crack at dogleg to prevent further damage to structure.			

SBC Reference:	36-16B-02		
NFCDD reference:	1221D901D1003C10		
	Asset Location:	NZ95320468, NZ95310481	
	Asset Length:	29.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Cracks and spalling to capping beam. Damage to previous repairs to South end of wall. Rock armour at toe in good condition, good interlock and profile.		
	Recommendations		
Continue to monitor. Repair spalling and joints where necessary.			

SBC Reference:	36-16B-03		
NFCDD reference:	1221D901D1003C09 ⁰⁰¹		
	Asset Location:	NZ95320468, NZ95310481	
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Steps in good overall condition. No handrail.		
	Recommendations		
Continue to monitor			


SBC Reference:	37-16C-01		
NFCDD reference:	1221D901D1003C09		
	Asset Location:	NZ95320468, NZ95310481	
	Asset Length:	62	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Rock armour is generally tightly packed and good cover. Some smaller rocks show signs of movement. Promenade in good condition. Overall good.		
	Recommendations		
Monitor armour for need to re-profile in future.			


SBC Reference:	37-16C-02		
NFCDD reference:	1221D901D1003C07 001		
	Asset Location:	NZ95320468, NZ95310481	
	Asset Length:	~20	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Slipway in good condition.		
Recommendations			
Continue to monitor			


SBC Reference:	37-16C-03		
NFCDD reference:	1221D901D1003C07		
	Asset Location:	NZ95320468, NZ95310481	
	Asset Length:	54.3	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	High
	Brief Description		
	Rock armour mostly well packed, but cliffs slumping from rear over top of revetment continues to damage and displace rock, particular just South of slipway / ramp and at the southern end of revetment (see photo).		
Recommendations			
Continue to monitor rock armour and cliff. Considerations should be made for the revetment to be realigned when the cliff has retreated sufficiently.			


Scarborough North Bay & Holms and Castle Headland


Asset locations detailed on drawing 457730-06


SBC Reference:	39-20A-01		
NFCDD reference:	1221D901D1201C01		
	Asset Location:	TA03569082, TA03569085 North of the Sea Life Centre.	
	Asset Length:	37.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Promenade in good condition. Wall in fair condition. No change identified in 2020.		
	Recommendations		
	Continue to monitor		


SBC Reference:	39-20A-01		
NFCDD reference:	1221D901D1201C02001		
	Asset Location:	TA03549057, TA03569082 next to Sea Life Centre.	
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Steps. Localised concrete abrasion with chipped tread but overall remains in fair condition in 2020.		
	Recommendations		
	Continue to monitor.		


SBC Reference:	39-20A-02		
NFCDD reference:	1221D901D1201C02		
	Asset Location:	TA03549057, TA03569082. Wall and promenade next to Sea Life Centre. Extends to Southern steps (40-20a-01)	
	Asset Length:	327.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Cracks to splash wall but looks sound. Prom good condition. Wall in fair condition. Stepped toe showing signs of abrasion. 1No. outlet failed but performance not affected.		
	Recommendations		
	Continue to monitor, refill joints and repair cracks.		


SBC Reference:	39-20A-03		
NFCDD reference:	1221D901D1201C02 ⁰⁰²		
	Asset Location:	TA03549057, TA03569082. Wall and promenade next to Sea Life Centre.	
	Asset Length:	~15	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Slipway not usable due to toe erosion. Deck slabs are in poor condition with joints heavy abraded. Recently repaired deck slab section is showing signs of damage.		
	Recommendations		
	Repair deck slab		



SBC Reference:	39-20A-04		
NFCDD reference:	1221D901D1201C02003		
	Asset Location:	Between slipway and steps	
	Asset Length:	Part of overall wall length (327.2)	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Blockwork in fair condition. Surface corrosion on sheet piles, with concrete toe beam heavily abraded in places. Prom good condition.		
	Recommendations		
	Continue to monitor		


SBC Reference:	40-20A-01		
NFCDD reference:	1221D901D1201C02004		
	Asset Location:		
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	2016: Partly rebuilt steps. 2018: Steps themselves generally in fair condition though cracks remain through older steps. Abrasion to capping and side walls with cracks through side walls between various repairs. Piles at toe of side walls severely corroded with water seeping out at low tide. 2020: No significant change. Remain in poor condition.		
	Recommendations		
	Continue to monitor. Repair cracks and pile toes.		


SBC Reference:	40-20A-02		
NFCDD reference:	1221D901D1201C03		
	Asset Location:	TA03589031, South of Sea Life Centre.	
	Asset Length:	120.6	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Abrasion of external blockwork throughout sea wall, particularly to the north of the asset where reinforcement is exposed. Stepped concrete toe is heavily abraded. Corroded handrails. As reported in 2018, there is cracking and spalling to prom slabs and some missing sealant between slabs. Sections of rear splash wall and revetment have been repaired since previous inspection.		
	Recommendations		
Undertake repairs to northern extents of seawall face where reinforcement is exposed.			


SBC Reference:	40-20A-03		
NFCDD reference:	1221D901D1201C03 ⁰⁰¹		
	Asset Location:	TA03589031, South of Sea Life Centre.	
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	
	Brief Description		
	As reported in 2018, the capping to north and south abutment walls have both been repaired. The capping to the lower half (that was not repaired) is showing signs of abrasion. Treads in fair condition although some rounding has occurred. Beach levels lower in 2020 exposing final tread of steps.		
	Recommendations		
Continue to monitor			


SBC Reference:	40-20A-04		
NFCDD reference:	1221D901D1201C24		
	Asset Location:	TA03589031, TA03549057	
	Asset Length:	65	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Exposed aggregate and abrasion / spalling to capping beam and facing blockwork. Cracks throughout promenade. Repairs evident in rear revetment. Recent repairs to toe beam to the south remain in good condition.		
	Recommendations		
Continue to monitor. Repair damaged capping beam and cracks in promenade.			


SBC Reference:	40-20A-05		
NFCDD reference:	1221D901D1201C24001		
 	Asset Location:		
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Beach levels locally approx. 500mm lower than previous inspection. Sheet piles heads. Side sheet piles appeared to be leaning seaward suggesting possible lateral movement - this should be monitored. Step abutments heavily abraded.		
	Recommendations		
Continue to monitor			


SBC Reference:	40-20A-06		
NFCDD reference:	1221D901D1201C25		
	Asset Location:	TA0357690349 North of slipway and beach huts.	
	Asset Length:	73.8	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Face loss with exposed aggregates – Repairs to section of blockwork in centre remains in good condition. Cracking to parts of promenade. Revetment to rear of prom appears in good condition, recently repaired.		
	Recommendations		
Continue to monitor and repair cracks.			


SBC Reference:	41-20A-01		
NFCDD reference:	1221D901D1201C04001		
	Asset Location:		
	Asset Length:	~6	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway - Spalling coping on side wall and recurve blockwork. Missing joints on revetment. Sediment concealed toe of slipway.		
	Recommendations		
Replace missing joints.			

SBC Reference:	41-20A-02		
NFCDD reference:	1221D901D1201C04		
	Asset Location:	TA03599020, TA03589031 At North end of beach huts.	
	Asset Length:	99.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No significant change observed in 2020. As reported previously repairs appear to be holding. Spalling coping next to southern ramp. Promenade in good condition. Heavily abrasion to unrepaired lower sections. Missing blockwork to low wall to grassed area at back of promenade. Outlet in good condition.		
	Recommendations		
Continue to monitor repair cracks and coping. Repair wall at back of promenade.			


SBC Reference:	41-20A-03		
NFCDD reference:	1221D901D1201C10001		
	Asset Location:	TA03599020, TA03589031	
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway - No significant change observed in 2020. As reported previously joints to block paving missing Capping beam to side wall abraded and chipped		
	Recommendations		
Replace joints. Continue to monitor.			


SBC Reference:	41-20A-04		
NFCDD reference:	1221D901D1201C10		
	Asset Location:	TA03599020, TA03589031	
	Asset Length:	13	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No significant change observed in 2020. As reported previously few cracks appear on capping beam, adjacent to N ramp to prom. Damage to recurve splash wall. Promenade in good condition.		
	Recommendations		
Repoint missing mortar to sea wall.			


SBC Reference:	42-20A-02		
NFCDD reference:	1221D901D1201C26		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	13.7	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Unchanged. Spalling in poured concrete capping to wall. Promenade in this section largely covered in debris deposited by tide, but no evidence to suggest any significant change. Toe not visible due to beach level.		
	Recommendations		
Continue to monitor and maintain.			


SBC Reference:	42-20A-03		
NFCDD reference:	1221D901D1201C26001		
	Asset Location:		
	Asset Length:		
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Sediment approx. 500mm higher in 2020 concealing lower steps. Abutments remains heavily abraded. Steps chipped and rounded but fair condition overall.		
	Recommendations		
Repair cracks. Continue to monitor			


SBC Reference:	42-20A-04		
NFCDD reference:	1221D901D1201C11		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	58.7	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Unchanged. Higher beach levels concealed more of the wall. Sediment repairs to capping remain in good condition. Abrasion to wall blocks and steps rounded. Cracks in poured concrete capping to wall, promenade in good condition. Rear revetment looks fair.		
	Recommendations		
Continue to monitor.			



SBC Reference:	42-20A-05		
NFCDD reference:	1221D901D1201C11001		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	New abutments constructed in 2015 remain in good condition. Minor damage to steps including rounding and chipping of treads. Beach levels significantly higher concealing lower steps.		
	Recommendations		
Continue to monitor.			



SBC Reference:	42-20A-06		
NFCDD reference:	1221D901D1201C12		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	58.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Sediment buried almost entirety of the seawall bar the cope stones. Repaired sections of cope are in good condition. Promenade in good condition but some spalling adjacent to coping. Rear revetment in fair condition, although mature vegetation growth was noted, some spalling to splash wall beneath revetment.		
	Recommendations		
Continue to monitor. Remove mature vegetation.			

SBC Reference:	42-20A-07		
NFCDD reference:	1221D901D1201C12001		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Beach levels very high during the inspections, coming to the crest of the wall. Abutments (rebuilt in 2015) remain in good condition. Steps show minor signs of rounding.		
	Recommendations		
Continue to monitor.			


SBC Reference:	42-20A-08		
NFCDD reference:	1221D901D1201C13		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	58.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Beach levels very high during the inspections, coming to the crest of the wall. Some spalling to joints between sections of capping, erosion to capping exposing aggregate. Some abrasion to blockwork was reported in 2018. Mature vegetation in revetment.		
	Recommendations		
Repair cracks to capping and inspect when toe visible. Remove mature vegetation from revetment.			


SBC Reference:	42-20A-09		
NFCDD reference:	1221D901D1201C13001		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Beach levels very high during the inspections, almost completely burying the steps. Abrasion visible to abutment. 2018 Inspection reported steps rounded but in fair condition. Both abutments in fair condition.		
	Recommendations		
Continue to monitor			


SBC Reference:	42-20A-10		
NFCDD reference:	1221D901D1201C14		
 	Asset Location:	TA03758981, TA03599020	
	Asset Length:	58.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Beach levels very high during the inspections, almost overtopping crest. Previous inspections have noted cracks to capping with some erosion exposing aggregate in places, some capping slabs repaired, but remaining showing signs of damage. Rear revetment fair condition with recent repairs – although mature vegetation growth noted in crest.		
	Recommendations		
Monitor and repair spalling to wall capping.			


SBC Reference:	42-20A-11		
NFCDD reference:	1221D901D1201C14001		
 	Asset Location:	TA03758981, TA03599020	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Beach levels very high during the inspections, coming to the crest of the wall. Previous inspections have noted Rounded and chipped steps but fair condition. Abutments walls in good condition		
	Recommendations		
Continue to monitor.			


SBC Reference:	42-20A-12		
NFCDD reference:	1221D901D1201C15		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	31.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Beach levels very high during the inspections, almost overtopping crest. Previous inspections have noted wall capping and promenade in fair condition. Some missing joints between capping and promenade slab. Some signs of abrasion to blockwork.		
	Recommendations		
Continue to monitor.			


SBC Reference:	42-20A-13		
NFCDD reference:	1221D901D1201C15001		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Beach levels very high during the inspections, coming to the crest of the wall. Previous inspection noted fair condition overall. Rounded steps. Abutment walls built in 2015. Spalling to southern abutment wall at joint with capping again noted in 2020.		
	Recommendations		
Repair southern abutment wall. Continue to monitor			


SBC Reference:	42-20A-14		
NFCDD reference:	1221D901D1201C16		
	Asset Location:	TA03758981, TA03599020. In front of Beach Management Centre.	
	Asset Length:	32	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Beach levels very high during the 2020 inspection, coming to the crest of the wall. Promenade in good condition. Some cracks to capping. It was previously reported that there is missing mortar to blockwork.		
Recommendations			
Repair cracks to capping and repoint blockwork. Inspect when toe of wall visible.			


SBC Reference:	42-20A-15		
NFCDD reference:	1221D901D1201C16001		
	Asset Location:	TA03758981, TA03599020.	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Beach levels very high during the inspections, coming to the crest of the wall. Previous inspection noted treads rounded but in fair condition. Southern abutment spalling at joint with promenade, again noted in 2020.		
Recommendations			
Repair southern abutment. Continue to monitor.			


SBC Reference:	42-20A-16		
NFCDD reference:	1221D901D1201C05		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	55.6	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Beach levels very high during the inspections, coming to the crest of the wall. Sections of cope have been replaced since 2018 and are in good condition.		
	Recommendations		
Monitor and repair coping.			


SBC Reference:	42-20A-17		
NFCDD reference:	1221D901D1201C05001		
	Asset Location:	TA03758981, TA03599020	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	A	4	5
	Brief Description		
	Fair condition overall. Some spalling to lower section of northern abutment reported in 2018 but not visible in 2020. Treads rounded. Damaged abutment at joint on northern side.		
	Recommendations		
Repair northern abutment. Continue to monitor			


SBC Reference:	42-20A-18		
NFCDD reference:	1221D901D1201C17		
	Asset Location:	In front on new apartments.	
	Asset Length:	22.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Unchanged in 2018. Only capping and top row visible. Abrasion/cracks to coping/prom edge. Prom in good condition.		
	Recommendations		
Repair defects to coping/prom edge and rear revetment.			

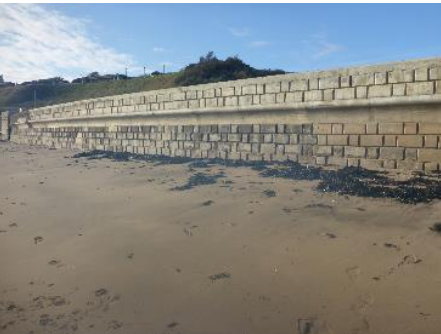
SBC Reference:	42-20A-19		
NFCDD reference:	1221D901D1201C17001		
	Asset Location:		
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Unchanged since 2018. Steps: Fair overall condition Penultimate step replaced from the top in 2015. Upper part of abutments appears to have previous repairs. Unable to inspect lower part fully due to beach levels but showing signs of abrasion on southern abutment.		
	Recommendations		
	Continue to monitor.		



SBC Reference:	42-20A-20		
NFCDD reference:	1221D901D1201C18		
	Asset Location:	In front of new apartments.	
	Asset Length:	43	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Cracking and spalling to wall capping has deteriorated since 2018. Beach level covering most of wall. Promenade in good condition.		
	Recommendations		
	Repair/replace damaged capping/coping beams.		


SBC Reference:	42-20A-21		
NFCDD reference:	1221D901D1201C18001		
	Asset Location:		
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Beach levels very high during the inspections, coming to the crest of the wall. Previous inspection reported steps in Fair condition .		
	Recommendations		
	Continue to monitor.		


SBC Reference:	43-20B-01		
NFCDD reference:	1221D901D1201C06		
	Asset Location:	TA03818971, TA03758981	
	Asset Length:	34.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Wall has been repaired since 2012 and is in good condition. South section rebuilt / overlaid. One full height crack evident in middle section although not worsened since 2018.		
	Recommendations		
Monitor and repair cracks.			


SBC Reference:	43-20B-02		
NFCDD reference:	1221D901D1201C06 001		
	Asset Location:		
	Asset Length:		
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway in good condition. It was reported in 2018 that the slipway was fenced off to prevent access – This had been removed in 2020. Cracking and abrasion to seaward abutment.		
	Recommendations		
Repair seaward abutment. Monitor			


SBC Reference:	43-20B-03		
NFCDD reference:	1221D901D1201C19		
	Asset Location:	TA03818971, TA03758981. In front of new development.	
	Asset Length:	93.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Unchanged since 2018. Higher beach level concealed much of the toe. Upper wall has been rebuilt at North end. Some missing joints and chipping of capping beam and splash beam.		
	Recommendations		
Repair missing joints and chipped parts of capping and splash beams.			


SBC Reference:	43-20B-04		
NFCDD reference:	1221D901D1201C20 001		
 <p>2020</p>	Asset Location:	TA03818971, TA03758981. In front of new development.	
	Asset Length:	~10	
 <p>2018</p>	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Beach levels approx. 1.5m higher than 2018 concealing toe and outlets. Previously reported that missing mortar between blockwork at toe Broken edge to construction joints. Missing sealant. Overall Fair condition. Cracks in upper wall.		
	Recommendations		
	Replace sealant in joints and mortar between blockwork. Repair cracks in upper wall. Continue to monitor.		


SBC Reference:	44-20B-01		
NFCDD reference:	1221D901D1201C20		
	Asset Location:	South of new development.	
	Asset Length:	40.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway. Deck slab appeared in fair condition. Blockwork wall damaged along upper slipway. Section of coping previously repaired.		
	Recommendations		
	Seal joints and repair cracks in coping and slabs. Continue to monitor.		


SBC Reference:	44-20B-02		
NFCDD reference:	1221D901D1201C07		
	Asset Location:	TA03818971, TA04078946 east of Alexandra Gardens.	
	Asset Length:	158.9	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	<p>Wall overall appeared in fair condition. Lower course of blockwork abraded. As are section of cope stone. Handrails corroded. As reported in 2018, Leaking evident through previous crack repairs with oily residue, likely from road runoff. Prom re-laid in concrete in 2012 in good cond. Two blocks missing in seawall adjacent to southern access steps exposing reinforcement.</p>		
Recommendations			
Cracks need repointing throughout sea wall. Repair damage to coping and toe. Repair missing blocks.			

SBC Reference:	44-20B-03		
NFCDD reference:	1221D901D1201C07001		
	Asset Location:		
	Asset Length:	~7	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	<p>Lower steps in fair condition with some rounding. Toe visible and now showing some signs of undercutting. Large full height crack from middle platform to prom level. Upper steps (north) in fair condition. Repairs carried out to step treads and abutments. Corroded handrail discontinuous seaward.</p>		
Recommendations			
Treat corroded handrail. Continue to monitor crack and undercutting			

SBC Reference:	44-20B-04		
NFCDD reference:	1221D901D1201C07002		
	Asset Location:		
	Asset Length:	~7	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No significant change to upper steps (south) since 2018. Fair condition. Corroded handrail and discontinuous seaward.		
	Recommendations		
Treat corroded handrail. Continue to monitor			


SBC Reference:	44-20B-05		
NFCDD reference:	1221D901D1201C21		
	Asset Location:	TA03818971, TA04078946 East of Alexandra Gardens.	
	Asset Length:	211.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No significant change since 2018. Prom surface replaced in 2012 at N and S ends, but centre still to do. Erosion to capping at edge of prom, patch repairs carried out with tarmac.		
	Recommendations		
Continue to monitor.			


SBC Reference:	45-20B-01		
NFCDD reference:	1221D901D1201C08 001		
	Asset Location:	Part of 45-20B-02	
	Asset Length:	25	
	Condition Assessment		
	Condition	Priority	Risk
	D	2	
	Brief Description		
	Slipway fenced off to prevent access due to previous settlement – Observed numerous members of the public still using in 2020. Large vertical crack on wingwall face with block missing, surrounding blocks at risk of being displaced. Crack and blockwork defects correlate to a depression in the deck suggesting settlement issues. Recently repaired (pre 2018) concrete slabs at top of slipway where tarmac had previously settled in good condition. New concrete slabs behind slipway on promenade.		
	Recommendations		
	Carry out repairs to make slipway safe or fence off at bottom as well as top		


SBC Reference:	45-20B-02		
NFCDD reference:	1221D901D1201C08		
	Asset Location:	TA04078945, TA04288930	
	Asset Length:	206.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No significant change since 2018. Some prom slabs have been repaired but significant abrasion to surface of many slabs remains. Repair / replacement work on some of the steps / toe in 2011/2013, but some horizontal cracks in original blocks remain.		
	Recommendations		
	Continue to monitor and repair cracks and resurface rest of prom.		


The Holms and Castle Headland


Asset locations detailed on drawing 457730-06


SBC Reference:	45-20B-03		
NFCDD reference:	1221D901D1202C23		
	Asset Location:	North of Albert Road.	
	Asset Length:	31.5	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Fair condition. Missing blockwork at southern end identified in 2018 has been repaired. Lower courses remain heavily abraded. Full height crack through wall at back of prom to south of steps. Cracks through prom slabs and coping to abutments either side of steps.		
	Recommendations		
	Undertake repairs and continue to monitor.		


SBC Reference:	46-20B-01		
NFCDD reference:	1221D901D1202C01		
	Asset Location:	TA04288929, TA0493895. East of Albert Road.	
	Asset Length:	124.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	No significant change since 2018. Original wall mostly hidden by rock armour; splash wall seems to be in good condition. Tightly packed rock armour with good coverage. Scour pool at toe of steps makes use at low tide difficult. Missing mortar to wall at rear of prom. Prom slab abraded where not replaced.		
	Recommendations		
	Replace mortar to wall at rear of prom. Continue to monitor. Look to replace remaining sections of prom.		


SBC Reference:	46-20B-02		
NFCDD reference:	1221D901D1202C01001		
	Asset Location:		
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Steps: fair condition overall. Lower steps abraded exposing aggregate. Lower steps also have steel edge in place which is corroded. Scour pool at toe of steps makes use difficult. Upper Steps (north) in good condition		
	Recommendations		
Remove corroded steel edge to lower steps and recast. Continue to monitor.			


SBC Reference:	46-20B-03		
NFCDD reference:	1221D901D1202C03 003		
	Asset Location:	Part of 46-20b-04	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	2015: Good condition throughout. Steps combine with SBC Ref: 46-20B-02 with single flight to beach level 2018: Upper flight in good condition. No significant change in 2020.		
	Recommendations		
Continue to monitor			

SBC Reference:	46-20B-04		
NFCDD reference:	1221D901D1202C03		
	Asset Location:		
	Asset Length:	429.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Constructed 2003ish. The Holms. Prom & Splash wall in good condition. Armour well packed and good cover. Original wall not visible.		
	Recommendations		
Continue to monitor.			

SBC Reference:	46-20B-05		
NFCDD reference:	1221D901D1202C03 002		
	Asset Location:	Part of 46-20B-04	
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	A	4	>5
	Brief Description		
	Upper flight in good condition.		
	Recommendations		
Continue to monitor.			


SBC Reference:	46-20B-06		
NFCDD reference:	1221D901D1202C03 001		
	Asset Location:	Part of 46-20B-04	
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	A	4	
	Brief Description		
	Steps: Upper flight in good condition throughout. Steps combine with SBC Ref: 46-20B-05 with single flight to beach level. Steps to lower part of flight to each level rounded.		
	Recommendations		
Continue to monitor.			

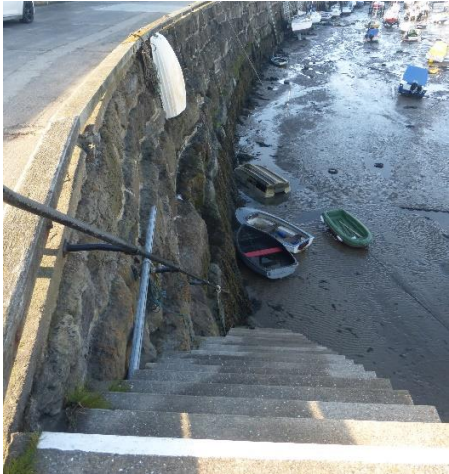
SBC Reference:	46-20B-07		
NFCDD reference:	1221D901D1202C04		
	Asset Location:		
	Asset Length:	219.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Original wall hidden by armour; splash wall seems to be in good condition. Tightly packed rock armour appears stable, no loose rocks. Toe piling appears to be working well, although could only be inspected from the promenade. Healthy levels of natural rock against piling offering further protection. . Prom good condition.		
	Recommendations		
Continue to monitor.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1202C02		
	Asset Location:	TA05178883, TA04988952. East of Scarborough Castle.	
	Asset Length:	886.7	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Accropodes slightly abraded and chipped throughout. No concern at present.		
	Recommendations		
Continue to monitor.			


Scarborough Harbour and South Bay

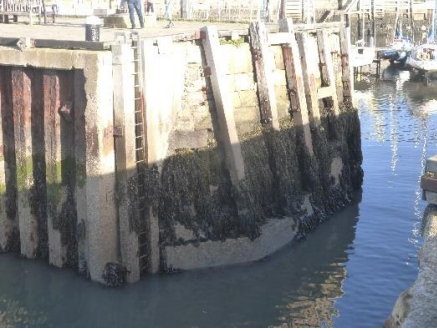
Asset locations detailed on drawing 457730-07


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C01		
	Asset Location:	TA04958849, TA05178883 North Harbour Breakwater.	
	Asset Length:	444.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Crest wall good. Rock armour & accropodes generally in good condition, well packed. Less tightly packed or missing armour units at south end of wall. Several cracked pieces of armour. Evidence of lateral voids at seaward end of breakwater visible during inspection from the beach to the south.		
	Recommendations		
Continue to monitor. Inspection of seaward end of structure required from boat.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C16		
	Asset Location:	Scarborough Harbour. North breakwater inner wall.	
	Asset Length:	362.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Vegetation at bottom half of wall. Wall was repaired 2004/5. Generally, repairs holding, but some voids at toe. Some cracks to promenade. Evidence of lateral voids at seaward end of breakwater. Visible during inspection from the beach to the south.		
	Recommendations		
Continue to monitor. Repair toe voids. Inspection of seaward end of structure required from boat.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C02		
	Asset Location:	TA05108874, TA05148874. Next to and under fairground.	
	Asset Length:	77.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Wall unable to be inspected due to fair ground. Render breaking away.		
Recommendations			
Report missing joints to spillway wall and repair slipway surfacing.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C04		
	Asset Location:	TA04948860, TA05088877. Old Pier	
	Asset Length:	463.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Appears fair. Missing fill between blocks throughout wall, fenders, vegetation and boats obscuring the lower parts of wall on old harbour side. Promenade in good condition.		
Recommendations			
Continue to monitor and repoint cracks and missing joints.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C03		
	Asset Location:	TA04958853, TA04938860. Lighthouse island.	
	Asset Length:	83.5	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Inner wall at entrance breakwater. Numerous cracks to blocks and missing mortar in joints. Vegetation and fenders obscuring most of walls. Only inspected from distance.		
Recommendations			
Continue to monitor and repoint cracks and joints.			



SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C17		
	Asset Location:	TA04958853, TA04938860. Wall at south side of Lighthouse island	
	Asset Length:	97	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Outer face. Sheet piles heavily corroded, although obscured by vegetation growing on the bottom of the piling. Cracks to concrete side wall to steps. Only inspected from distance.		
Recommendations			
Repair cracks. Continue to monitor.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C05		
	Asset Location:	TA05048878, TA05088877. South of roundabout opposite arcade.	
	Asset Length:	43.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Cracking and missing joints to top of capping, arches look structurally sound. Promenade in good condition.		
Recommendations			
Repair cracks and damage to coping.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C12		
	Asset Location:	TA04998877, TA05048878. West of masonry arches.	
	Asset Length:	51.7	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Corrosion evident sheet piles, especially lower part, but appear fair. Promenade in good condition.		
	Recommendations		
Continue to monitor.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C11		
	Asset Location:	TA04958876, TA04998877, Opposite Subway restaurant.	
	Asset Length:	47	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Few minor cracks to wall, spalling to capping. Promenade in good condition. Upper wall good. Slipway fair. Concrete piles at lower wall appear to have rotated in past but appear to be stable. Cracks to lower slabs in slipway. Damage to handrailing noted during 2020 inspection.		
	Recommendations		
Continue monitoring, repair cracks/joints. Repair damaged section of handrailing.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C06		
	Asset Location:	TA04768876, TA04958876. Opposite Information centre.	
	Asset Length:	195.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Back wall difficult to view, appears to be fair, where visible, some cracks and missing joints in places. Suspended quay appears to be fair condition, some cracks in protective coating. Promenade good. Timber edging rail decaying.		
	Recommendations		
Monitor cracks to wall.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C14		
 	Asset Location:	TA04758875, TA04768876. West of Information centre.	
	Asset Length:	19.5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Fair overall, only minor gaps. Damaged section of blockwork wall beneath coping stone on low northern tie in wall.		
	Recommendations		
Continue active monitoring. Repoint missing joints and damaged section of blockwork wall.			

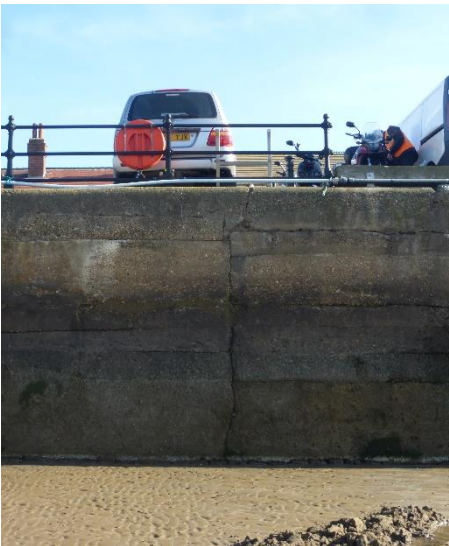
SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C13		
	Asset Location:	TA04758875, TA04908862. West pier wall.	
	Asset Length:	140.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Sheet piles appear fair where visible, but only inspected from distance at low water. Promenade in good condition.		
	Recommendations		
Consider future inspection of quay from boat.			



SBC Reference:	N/A		
NFCDD reference:	1221D901D1301C18		
	Asset Location:	West Pier, Scarborough South Bay.	
	Asset Length:	115.6	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Section remains in poor condition. Heavily corroded piles throughout. Cracking evident in coping beam.		
	Recommendations		
Continue to monitor. Inspect piles, repair cracks.			


SBC Reference:	49-21B-05		
NFCDD reference:	1221D901D1301C18 001		
	Asset Location:	West Pier, Scarborough South Bay.	
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Cracking and missing render at steps. Treads in good condition. Back wall heavily abraded with exposed aggregates and missing capping block in places. Heavily corroded handrail. Large crack above toe of side wall on seaward side.		
	Recommendations		
Treat or replace handrail. Replace missing capping block and concrete skim the back wall. Repair cracks in seaward wall.			


SBC Reference:	49-21B-04		
NFCDD reference:	1221D901D1301C07		
	Asset Location:	TA04738870, TA04908862. Beach end of West Pier, between stairs.	
	Asset Length:	58.7	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Scour apron not visible due to beach level. Horizontal and vertical cracking at bend of wall, has had repairs carried out. Exposed aggregate throughout wall. Numerous cracks throughout wall. Exposed timber toe piles rotten with scoured concrete wall behind.		
	Recommendations		
	Continue to monitor and repair cracks, voids and damaged apron. Improve toe protection.		


SBC Reference:	49-21B-03		
NFCDD reference:	1221D901D1301C07001		
	Asset Location:	TA04738870, TA04908862. Beach end of West Pier, between stairs.	
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Precast steps have been repointed on exposed seaward side at upper part. No edge / toe protection seaward. Numerous cracks in side walls to steps.		
	Recommendations		
	Repairs cracks in walls. Continue to monitor.		


SBC Reference:	49-21B-02		
NFCDD reference:	1221D901D1301C19		
	Asset Location:	TA04738870, TA04908862. Shore end of West Pier.	
	Asset Length:	110.4	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Vertical crack from top to bottom of wall at middle section of length, appears same as last inspection. Horizontal and vertical cracks and exposed aggregate throughout wall. Rotten timber toe piles exposed at deeper end. Scour hole developing behind the timber piles. Few minor cracks to promenade.		
Recommendations			
Continue to monitor and repair cracks and improve toe protection.			


SBC Reference:	49-21B-01		
NFCDD reference:	1221D901D1301C08		
 	Asset Location:	TA04708872, TA04738870	
	Asset Length:	69.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	
	Brief Description		
	Wall now replaced as part of RNLI development. New wall generally in good condition. Vegetation growth around full perimeter of wall may obscure defects. Vegetation coverage most dense beneath the slipway. One displaced block was noted to the south of the slipway.		
Recommendations			
Repair damaged blockwork. Clean vegetation, particularly beneath slipway.			

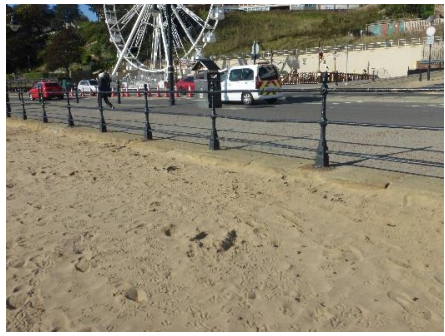
SBC Reference:	51-22A-01		
NFCDD reference:	1221D901D1301C20		
	Asset Location:	Next to Life boat house.	
	Asset Length:	28.5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway appears in fair condition. Some cracked blocks and mortar required. High beach levels in 2020 obscured view of much of the slipway.		
	Recommendations		
Repoint and replace blocks as required			


SBC Reference:	51-22A-02		
NFCDD reference:	1221D901D1301C15		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	40.3	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Limited height of wall visible due to beach levels. Some missing mortar and corrosion to handrails		
	Recommendations		
Repair joints between blocks. Treat handrails			


SBC Reference:	51-22A-03		
NFCDD reference:	1221D901D1301C15001		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Fair condition overall. Chipped concrete steps. High beach levels covered the full set of steps.		
	Recommendations		
Continue to monitor.			


SBC Reference:	51-22A-04		
NFCDD reference:	1221D901D1301C21		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	57.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Only the coping stone and occasionally the top course of blockwork was visible during the 2020 inspection. What was visible was in fair condition with some joints missing mortar and some spalling around the base of the iron fence posts.		
	Recommendations		
Repoint when necessary.			


SBC Reference:	51-22A-05		
NFCDD reference:	1221D901D1301C21001		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	~3	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Fair condition overall. High beach levels mean steps now visible.		
	Recommendations		
Continue to monitor			


SBC Reference:	51-22A-06		
NFCDD reference:	1221D901D1301C22		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	114.9	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Limited height of wall visible due to beach level.		
	Recommendations		
Repair handrails. Repoint blocks.			


SBC Reference:	51-22A-07		
NFCDD reference:	1221D901D1301C22 001		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Small access ramp partly covered by the beach. Exposed surface looks in fair condition.		
	Recommendations		
Continue to monitor.			


SBC Reference:	51-22A-08		
NFCDD reference:	1221D901D1301C23		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	101.8	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Only upper wall inspected due to beach level. Wall appears in fair to good condition although missing joints in places with some failing repairs around bases of railing posts.		
	Recommendations		
Repoint as required. Ensure historic repairs to posts are still effective.			


SBC Reference:	51-22A-09		
NFCDD reference:	1221D901D1301C23 001		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Partly covered by sand and by the lifeguard station. Section visible in fair condition, some missing mortar between blocks.		
	Recommendations		
Repoint as required and continue to monitor.			


SBC Reference:	51-22A-10		
NFCDD reference:	1221D901D1301C24		
	Asset Location:	TA04538856, TA04698873	
	Asset Length:	109.7	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Some missing mortar between blocks, cracks, missing blocks and previous repairs. Promenade good.		
	Recommendations		
	Monitor, replace blocks, seal cracks and repoint when		


SBC Reference:	51-22A-11		
NFCDD reference:	1221D901D1301C24 ⁰⁰¹		
	Asset Location:		
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway. Missing mortar in gaps between blocks.		
	Recommendations		
	Fill gaps between blocks. Continue to monitor.		

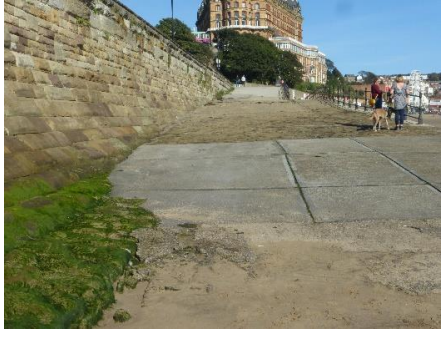
SBC Reference:	51-22A-12		
NFCDD reference:	1221D901D1301C25		
	Asset Location:	TA04538856, TA04698873. In front of Hotel.	
	Asset Length:	99.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	Missing mortar in joints in places and signs of abrasion. Repairs suggested.		
	Recommendations		
	Continue to monitor and repair joints, inspect at low beach level.		


SBC Reference:	52-22A-01		
NFCDD reference:	1221D901D1301C09 001		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Steps in fair condition. New concrete apron in good condition.		
	Recommendations		
Continue to monitor.			


SBC Reference:	52-22A-02		
NFCDD reference:	1221D901D1301C09		
	Asset Location:	TA04428822, TA04438827. Wall at underground tunnel entrance.	
	Asset Length:	41.5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Toe apron has been repaired / overlaid repairs in good condition. Elsewhere, localised missing mortar in joints to wall, signs of abrasion and cracking & abrasion to unrepaired sections of original apron. Several full height vertical cracks to upper road wall. Promenade in good condition.		
	Recommendations		
Continue to monitor and repair joints and cracks.			


SBC Reference:	52-22A-03		
NFCDD reference:	1221D901D1301C09 002		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	5
	Brief Description		
	Fair condition overall, lower steps and apron visible due to lower beach level. Apron generally in fair condition.		
	Recommendations		
Continue to monitor.			

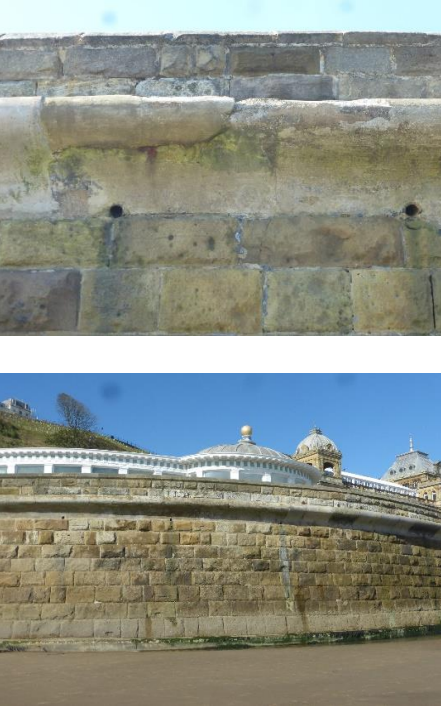
SBC Reference:	52-22A-04		
NFCDD reference:	1221D901D1301C10		
	Asset Location:	TA04508772, TA04428822. North of slipway.	
	Asset Length:	100.7	
	Condition Assessment		
	Condition	Priority	Risk
	C	1	
	Brief Description		
	Missing mortar joints to wall, occasional cracked blockwork and missing blocks to lower part of wall, vegetation near slipway. Cracking in upper retaining wall between prom and slipway. Recent repairs to slipway toe and sections of replaced mortar are holding. A large number of defects remain including missing blocks which require filling, particularly around Spa feature and longitudinal cracks.		
	Recommendations		
Continue to monitor, repair cracks, replace blocks and joints.			


SBC Reference:	53-22B-01		
NFCDD reference:	1221D901D1301C10 001		
	Asset Location:	South of 52-22A-04	
	Asset Length:	~12	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Repairs to slipway toe holding. Mixed revetment construction testimony of previous repairs undertaken.		
	Recommendations		
Continue monitoring, repair joints as required.			


SBC Reference:	53-22B-02		
NFCDD reference:	1221D901D1301C26		
	Asset Location:	TA04508772, TA04428822. South of slipway.	
	Asset Length:	162.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Wall in fair condition. Some cracked blocks but seem stable. Missing mortar / open joints here and there. Crest wall repairs evident with some sections of coping repaired but others abraded.		
	Recommendations		
Grout joints. Continue to monitor.			



SBC Reference:	53-22B-04		
NFCDD reference:	1221D901D1301C26001		
	Asset Location:	Part of 53-22b-02	
	Asset Length:	~5	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Fair overall condition with bottom steps damaged in places. New concrete toe constructed to seaward side wall in fair condition although partially covered with vegetation growth.		
	Recommendations		
Continue to monitor.			


SBC Reference:	53-22B-05		
NFCDD reference:	1221D901D1301C27		
	Asset Location:	TA04508772, TA04428822. North of The Spa.	
	Asset Length:	158.1	
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	Multiple repairs. Repaired section of crest wall rebuilt after Dec 13 storm, in fair condition. Wall remains in poor condition elsewhere. Many cracks, open joints and displaced blocks in main wall. New toe constructed to northern section of wall June-August 2018 remains in good condition.		
	Sheetpiles at edge of toe constructed previously severely corroded with holes in places with evidencing of voids beneath concrete toe.		
	Recommendations		
	Repair cracks, joints and sheetpile toe.		


SBC Reference:	53-22B-06		
NFCDD reference:	1221D901D1301C28		
	Asset Location:	TA04508772, TA04428822 Opposite The Spa	
	Asset Length:	76.4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Repairs undertaken in 2017 to install new concrete toe. Concrete toe only partially visible, appears in fair condition. Bullnose wave return feature is heavily abraded and cracked in places. Some recent repairs to the feature appear to be in fair condition.		
	Recommendations		
	Continue to monitor, repoint as necessary, repair damaged section of bullnose.		


SBC Reference:	53-22B-07		
NFCDD reference:	1221D901D1301C29		
	Asset Location:	TA04508772, TA04428822. South of The Spa.	
	Asset Length:	57.4	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Open joints in main wall. Repairs to lower splash beam in good condition. Beach levels generally higher than in 2018 burying undercutting to stepped out section of wall. Promenade in good condition.		
	Recommendations		
	Continue to repair joints and monitor.		


SBC Reference:	53-22B-08		
NFCDD reference:	1221D901D1302C01001		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Repairs to side wall capping undertaken. Steps in fair condition.		
	Recommendations		
	Continue to monitor.		


SBC Reference:	54-22B-01		
NFCDD reference:	1221D901D1302C01		
 	Asset Location:	TA04538765, TA04508772. Next to cliff railway.	
	Asset Length:	77.5	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	<p>Lower wall has repairs to 2 large areas which remain in good condition. A framework of steel supports and horizontal I-section support beam beneath upper prom has been constructed and appears in good condition. The condition of the promenade remains unchanged in a poor state of repair. There are numerous cracks and extensive corrosion/rust staining to beams supporting upper prom near stairs. Cracking & rust staining to cols. Major weathering loss of stone blocks in rear splash wall.</p>		
	Recommendations		
<p>Monitor steel support structure. Capitol scheme to improve long term resilience of the asset.</p>			



SBC Reference:	54-22B-02		
NFCDD reference:	1221D901D1302C01002		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Steps worn out. Cracks visible across a number of steps. Some have already been repaired. Corroded handrail.		
	Recommendations		
Repair steps. Treat handrail. Continue to monitor.			


SBC Reference:	54-22B-03		
NFCDD reference:	1221D901D1302C03		
	Asset Location:	TA04628752, TA04538765. South of cliff railway.	
	Asset Length:	19.2	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Repairs evident with blocks replaced and joints filled.		
	Recommendations		
Regular repair to joints, particularly on steps.			


SBC Reference:	56-22B-04		
NFCDD reference:	1221D901D1302C02001		
	Asset Location:		
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Slipway in fair overall condition. Uneven cobbles with some missing mortar requiring repointing in places.		
	Recommendations		
Repoint joints. Continue to monitor			


SBC Reference:	55-22B-01		
NFCDD reference:	1221D901D1302C02		
	Asset Location:	TA04628752, TA04538765. In front of Beach Chalets.	
	Asset Length:	231.8	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Numerous historic and recent repairs in varying conditions Generally the condition of the asset is in a fair condition with recent repairs to the main wall, coping and wave wall in good condition. Some evidence of spalling and open joints throughout structure.		
	Recommendations		
Replace missing filler in joints in promenade.			


SBC Reference:	56-22B-02		
NFCDD reference:	1221D901D1302C02002		
	Asset Location:		
	Asset Length:	~4	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Cracks between the capping beam and the steps. Some steps have been refurbished. Fixings to handrail corroded. Overall fair condition.		
	Recommendations		
Treat handrail fixings. Continue to monitor.			


SBC Reference:	56-22B-03		
NFCDD reference:	1221D901D1302C02003		
 	Asset Location:	Wall south of steps	
	Asset Length:	231.8 (with 55-22b-01)	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Repairs evident. Several sections of rebuilt facing and sine prom slabs have been replaced. However, large areas of missing joints in prom slabs remain, particularly at north end. Scour of the toe with deep holes over a 20m section. Open joints in lower wall.		
	Recommendations		
	Repoint blockwork, replace joints in slabs and on lower wall. Continue with any outstanding repair work		


SBC Reference:	56-22B-04		
NFCDD reference:	1221D901D1302C02004		
	Asset Location:		
	Asset Length:		~5
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Top section behind defence wall has been re-built although cracks have started to appear. Slipway leading to beach - large cracks with damaged side walls (especially the concrete bag work and mass concrete screed).		
	Recommendations		
	Repair cracks and screed.		

SBC Reference:	56-22B-05		
NFCDD reference:	1221D901D1303C02		
	Asset Location:		TA04828723, TA04668746.Wall at Dickinson's Point.
	Asset Length:		308.2
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	Still some missing joints in blockwork in lower wall. Repairs undertaken since last inspection to scour holes, coping and deck slabs. Many open joints between concrete slabs in lower prom remain. Ongoing damage and loss of facing to upper wall, cracks/spalling to splash beam.		
	Recommendations		
	Repair missing joints in lower blockwork wall and open joints in lower prom. Continue to monitor.		

SBC Reference:	56-22B-06		
NFCDD reference:	1221D901D1303C02 001		
	Asset Location:		
	Asset Length:	~12	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Groyne in fair condition. Ramp - Visible resin repair to side wall Concrete slab revetment repaired with flexible asphalt filler, but repairs have failed and need redoing.		
	Recommendations		
	Replace asphalt filler.		


SBC Reference:	56-22B-07		
NFCDD reference:	1221D901D1304C02		
	Asset Location:	TA04868713, TA04828723. East of Holbeck Gardens.	
	Asset Length:	112.5	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Cracks to bastion throughout. Missing pointing / open joints and damaged parts of upper and lower capping beam. Limited height of lower wall visible due to beach level. Mortar missing between blockwork in lower wall. Corroded handrail with missing sections. Upper prom has been fenced off and is in poor condition. Full height cracks through uppermost wall.		
	Recommendations		
	Repair facing and copings. Replace mortar. Seal cracks. Replace broken handrails.		


SBC Reference:	56-22B-08		
NFCDD reference:	1221D901D1304C01		
	Asset Location:	TA05038695, TA04868713. Land slip.	
	Asset Length:	294.7	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	>5
	Brief Description		
	Rock armour tightly packed, good cover and looks in good condition. Toe in good condition, rock socketed into wave cut platform of soft rock. Top of sheetpiles just visible at toe of revetment with concrete behind.		
	Recommendations		
Continue to monitor, monitor stability of cliffs.			


SBC Reference:	56-22B-09		
NFCDD reference:	1221D901D1304C01001		
	Asset Location:	Part of 56-22b-08	
	Asset Length:	~10	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Southern ramp has vertical drop to rocks and crack in bottom slab. Missing sealant between slab joints		
	Recommendations		
Repair cracks. Seal joints. Provide safe access from base of ramp onto foreshore. Continue to monitor.			


Cayton Bay

Asset locations detailed on drawing 457730-08

SBC Reference:	58-24B-01		
NFCDD reference:	1221D901D1402C02		
	Asset Location:	TA06618455, TA06648454	
	Asset Length:	34	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	<p>North of old PS. Poured concrete and concrete blockwork toe below a stepped seawall with curved coping stone. More recent construction than adjacent walls. Cliff cutting back adjacent to North. Wall generally fair, but toe undercut at South. A large void beneath the apron of the structure is partially concealed by higher beach levels in 2020. Evidence of leaching and moisture seemingly draining from the cliff unit above.</p>		
	Recommendations		
	<p>Repair to voids. Investigate source of moisture at the southern end of the defence. Monitor recession of beach level along toe of structure. Monitor for outflanking.</p>		


SBC Reference:	59-24B-01		
NFCDD reference:	1221D901D1402C05		
	Asset Location:	TA06698449, TA06658454	
	Asset Length:	67.3	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	<p>Private wall to old PS in Poor condition. Lower apron has multiple patch repairs with poured concrete but has cracks. Recent pointing to main wall joints. Higher wall slightly better than lower. Higher beach levels in 2020 have in part concealed localised undercutting of the toe of the lower wall apron. Numerous voids visible in concrete apron.</p>		
	Recommendations		
	<p>Private maintenance.</p>		


SBC Reference:	60-24B-01		
NFCDD reference:	1221D901D1402C04		
	Asset Location:	TA06698449, TA06758445	
	Asset Length:	32.6	
	Condition Assessment		
	Condition	Priority	Risk
	D	1	
	Brief Description		
	<p>Southern section of apron is missing, lower sea wall has been undercut and failed. Blockwork missing and displaced. Some repairs to deck with concrete. Upper wall missing southern section. Toe undermined. Crest breaking up.</p> <p>Ongoing slip failure behind higher wall with access steps consolidated with trench sheets. Loss of material from behind upper wall caused by slip failure. Large voids in the lower wall at beach level. Further undermining of the footpath. Defence is at significant risk of washout in the event of significant rainfall event coupled with tidal surge. Runoff from slope to the rear of upper wall could lead to instability of the structure and cause collapse of access footpath. Repairs performed following 2016 inspection appear in fair condition however the mass concrete toe repair is now itself undercut and being undermined from its southern end.</p>		
	Recommendations		
	<p>Repair or remove/make safe. Adapt long term strategic approach as defined in Filey and Cayton Bay Coastal Strategy.</p>		


SBC Reference:	60-24B-01		
NFCDD reference:	1221D901D1402C06		
	Asset Location:	Nr Pumping Station in Cayton Bay.	
	Asset Length:	19.9	
	Condition Assessment		
	Condition	Priority	Risk
	D	1	
	Brief Description		
	<p>Mass concrete wall has failed and is breaking up. More patch repair work has been done to make safer for pedestrians. Large voids beneath deck structure. Needs removing and replacing with safer beach pedestrian access.</p> <p>Significant damage to the rear of the structure, washout out of fill material evidenced by undercutting and settlement of the structure.</p> <p>Higher beach levels have concealed the base of the structure. Repairs to step (addition of larger bottom step) made following 2018 inspection are in good condition.</p> <p>Repairs undertaken to make safe in July 2016 noted as being in fair condition. Concrete skim on deck of structure noted as being in good condition and has temporarily filled open surface voids.</p>		
	Recommendations		
	<p>Repair or remove/make safe beach access. Adapt long term strategic approach as defined in Filey and Cayton Bay Coastal Strategy.</p>		



Filey


Asset locations detailed on drawing 457730-08


SBC Reference:	N/A		
NFCDD reference:	1221D901D1601C02		
	Asset Location:	TA12248126, TA12278130	
	Asset Length:	18.3m	
	Condition Assessment		
	Condition	Priority	Risk
	D	4	
	Brief Description		
	Rock armour scattered and totally ineffective. Timber breastwork no longer evident. Coastal slope appears to be actively eroding. Rock armour originally placed in failed breastwork. No significant change in 2020.		
	Recommendations		
	Consider reprofiling rock to slow erosion at boat club.		


SBC Reference:	64-28A-02		
NFCDD reference:	1221D901D1601C03		
	Asset Location:	TA12228121, TA12248126	
	Asset Length:	55.8m	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	
	Brief Description		
	Sheet piling remains in good condition although surface corrosion present. High beach levels concealed much of the lower sheet piles, including outlet. Scour hole at north end of promenade identified in 2018 has been repaired.		
	Recommendations		
	Continue to inspect.		

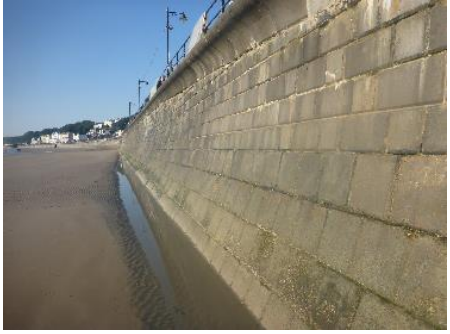
SBC Reference:	64-28A-01		
NFCDD reference:	1221D901D1601C03 001		
	Asset Location:	TA12228121, TA12248126	
	Asset Length:	~15m	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Fair to poor condition overall, concrete encasement abraded, open joints, cracks in the middle part with patch repairs carried out. Significant undercutting of slipway toe on the seaward side. Drainage outlet on seaward side not observed but reported previously to be blocked. Previous earth movements onto slipway have been cleared.		
	Recommendations		
Repair undercutting slipway.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1602C09 002		
 	Asset Location:	TA12118095, TA12128100	
	Asset Length:	~10m	
	Condition Assessment		
	Condition	Priority	Risk
	D	2	
	Brief Description		
	Concrete rear ramp/wing wall in poor condition. Seaward side is heavily abraded with several missing sections of capping beam. Several holes in deck towards toe. A large scour hole has developed since 2018 at the wall joint exposing reinforcement – condition reduce to very poor as a result.		
	Recommendations		
Repair scour hole			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1602C09		
	Asset Location:	North of promenade, Filey.	
	Asset Length:	38.8m	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Horizontal cracks and open joints throughout structure. Degradation of front faces of blocks and capping. Crest section repaired locally. Toe of wall abraded/undermined at bottom of slipway. Large crack through wingwall approx. 7m from extremity of wall possibly due to settlement. No significant change in 2020.		
	Recommendations		
Repair undermining at slipway, monitor and repair damage.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1602C09 001		
	Asset Location:	North of promenade, Filey.	
	Asset Length:	10m	
	Condition Assessment		
	Condition	Priority	Risk
	B	4	
	Brief Description		
	Slipway blockwork remains in fair to good condition. Much of lower slipway concealed by beach sediment.		
	Recommendations		
Continue to monitor			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1602C01		
	Asset Location:	TA12118095, TA12128100	
	Asset Length:	49.6m	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	The concrete cope beam, observed being replaced in the 2018, remains in good condition. Abrasion of wall. Concrete block wall adjacent in poor condition – leans seaward, open joints, damaged blocks.		
	Recommendations		
Repair damaged wall. Monitor leaning wall.			


SBC Reference:	67-28B-01		
NFCDD reference:	1221D901D1602C06		
	Asset Location:	North of promenade	
	Asset Length:	109.8m	
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	No significant change in 2020. Missing pointing between blocks on wall. Damage to front face of several blocks. Concrete toe apron exposed locally. High beach levels buried several outlets in 2020 – water pooling against face.		
	Recommendations		
Repointing. reseal cracks below coping.			


SBC Reference:	67-28B-02		
NFCDD reference:	1221D901D1602C08 001		
	Asset Location:		
	Asset Length:	~6m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Mixed construction from blockwork and mass concrete. Recent blockwork repair towards toe. Several open joints between blockwork, cracked concrete. High Beach levels concealed concrete toe apron previously reported to be undermined.		
	Recommendations		
Repair/reseal joints and repair cracks. Continue to monitor.			


SBC Reference:	67-28B-03		
NFCDD reference:	1221D901D1602C08		
	Asset Location:	TA11978020, TA12068082	
	Asset Length:	301.6m	
	Condition Assessment		
	Condition	Priority	Risk
	B	2	
	Brief Description		
	Abrasion to front face, particularly just above beach level appeared to have worsened slightly. As reported in 2018, Many bullnose blocks have been repaired, but others are cracked/damaged. Several open joints leaking water. Water again observed bubbling on beach approx. 1m off toe of wall, it is believed this is due to a buried outfall pipe. Handrails corroded.		
	Recommendations		
Replace/repair cracked coping and repair damaged blocks. Repair handrails. Confirm "bubbling" is due to buried outlet.			

SBC Reference:	67-28B-04		
NFCDD reference:	1221D901D1602C03002		
	Asset Location:		
	Asset Length:	12m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Several open/missing joints in slipway, occasional settled blocks although none noted missing. Missing blocks and mortar joints on abutment walls. Handrails corroded.		
	Recommendations		
Repair/replace missing blocks and joints. Treat/replace handrail.			


SBC Reference:	67-28B-04		
NFCDD reference:	1221D901D1602C03003		
	Asset Location:		
	Asset Length:	6m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No significant change in 2020. Painted steel bridge in good condition overall. No issues noted to slabs on underside of deck, surface corrosion noted to pipework. Several cracks/open joints in both abutments and brickwork in need of localised repointing.		
	Recommendations		
Repair cracks in abutment walls.			


SBC Reference:	67-28B-05		
NFCDD reference:	1221D901D1602C03		
	Asset Location:	TA11978020, TA12068082	
	Asset Length:	318.8m	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	Chipped / abraded areas of blocks continued to have deteriorated since 2018. Loss of face to many blocks throughout, particularly at lower levels at South end. Water observed sipping out abraded blocks in area. Several new / repaired coping blocks. Handrails corroding at many joints. Cracked splash beam and missing joints in several places. High beach levels burying several outlets.		
	Recommendations		
Monitor abrasion and reface in blocks. Repair/replace handrails. Repair missing joints.			


SBC Reference:	N/A		
NFCDD reference:	1221D901D1602C03 001		
	Asset Location:		
	Asset Length:	5m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	No significant change in 2020. Corroded handrail and cracking joints below treads on side wall. Step nosing lightly		
	Recommendations		
Repair joints. Treat handrails. Continue to monitor.			


SBC Reference:	67-28B-06		
NFCDD reference:	1221D901D1602C04 002		
	Asset Location:	TA11968012, TA11978020	
	Asset Length:	20m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Several open/missing joints between stone blocks Toe of structure covered by shingle, 2015 inspection reports 'scour hole near the toe stabilised with mass concrete infill but still depressed' although this was again not observed in 2020.		
	Recommendations		


	Recommendations		
	Replace/repair missing joints. Continue to monitor.		


SBC Reference:	67-28B-07		
NFCDD reference:	1221D901D1602C04		
	Asset Location:	TA11968012, TA11978020	
	Asset Length:	91.8m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Overall fair condition, some abrasion to facing of blocks, open/missing joints between a few blocks. No change in 2020.		
	Recommendations		
	Seal open joints, repair abrasion damage to facing of blocks.		


SBC Reference:	67-28B-08		
NFCDD reference:	1221D901D1602C04 001		
	Asset Location:		
	Asset Length:	~6m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Abrasion/ chipping to steps, coping cracked locally. Deep scour in beach sediment adjacent to landing step makes access at low tide difficult due to pooling water.		
	Recommendations		
	Repair chipped steps and cracked coping, continue to monitor.		

SBC Reference:	67-28B-09		
NFCDD reference:	1221D901D1602C07		
	Asset Location:		
	Asset Length:	98m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Cracking to splash beam in a few places, other areas have been repaired. Numerous chipped / damaged blocks, but overall fair. Cracks and open joints in blockwork of Southern steps buttress. Promenade fair to good. Potholes in asphalt reported in 2018.		
	Recommendations		
	Repair cracks and loose blocks. Fill joints. Continue to monitor.		


SBC Reference:	67-28B-10		
NFCDD reference:	1221D901D1602C05 001		
	Asset Location:		
	Asset Length:	10m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Spalling and abrasion of concrete blocks on seaward side with missing joints in places. Steps abraded and beginning to round although in fair condition.		
	Recommendations		
	Replace missing joints, repoint steps. Continue to monitor		

SBC Reference:	67-28B-11		
NFCDD reference:	1221D901D1602C05		
	Asset Location:	TA11957997, TA11968012	
	Asset Length:	103.9m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Some damage to seaward edge of prom. Repairs to splash beam by outfall holding (reported in 2018). Numerous lower blocks damaged on front face between beach level and 2m height not significantly worsened. Horizontal crack on seaward section as 2012. Cracks in retaining wall to slipway. Outfall discharging on day of inspection. Outfall grate corroded.		
	Recommendations		
	Monitor damage to blocks and repair where necessary. Treat/replace handrailing.		

SBC Reference:	67-28B-12		
NFCDD reference:	1221D901D1602C02001		
	Asset Location:	TA12248126, TA12278130	
	Asset Length:	15m	
	Condition Assessment		
	Condition	Priority	Risk
	B	3	
	Brief Description		
	Spalling of concrete near base. Crack on side wall at mid-section. Fair condition overall. Handrail corroded. Toe of slipway abraded causing open joints between concrete sections. Washout of material behind slipway has caused outlet pipe to break.		
	Recommendations		
Repair spalling and cracking. Repaint/replace handrailing. Repair outlet pipe behind structure.			

SBC Reference:	67-28B-13		
NFCDD reference:	1221D901D1602C02		
	Asset Location:	TA12068082, TA12118035	
	Asset Length:	18.3m	
	Condition Assessment		
	Condition	Priority	Risk
	C	2	
	Brief Description		
	Gabion baskets fronted by rock armour and concrete blocks, with gravel/stone infill to rear. Slumping cliffs behind may be pushing rock onto beach highlighted by the depression in the crest of the gabion baskets and rock armour		
	Recommendations		
Continue to monitor and reposition rocks as required. Consider placement of larger rock armour.			

Flat Cliffs

SBC Reference:	To be allocated by SBC to this new defence length		
NFCDD reference:	To be allocated by SBC to this new defence length		
	Asset Location:		
	Asset Length:	75m	
	Condition Assessment		
	Condition	Priority	Risk
	C	3	
	Brief Description		
	<p>Flat cliffs stabilisation scheme was complete in 2018 to provide temporary (20 year design life) protection to the hamlet access road. The works involved installing sand filled geotextile bags along the toe of the till cliffs, kerb drainage units along the access road at the crest of the cliffs and sub-horizontal slope drainage installed at the base of the cliff.</p> <p>The geotextile bags at the toe of the cliff were mostly fully buried by beach sediment. The toe of the cliff has continued to slowly retreat, exposing drainage pipes along the full length which in many places have come separated at their terminal end. It was noteworthy that several of the drainage pipes were discharging water at the time of inspection suggesting they are still operating as expected</p>		
	Recommendations		
	<p>It is recommended that the pipes are not reconnected due to the ongoing erosion of the toe making it highly likely for the issues rearise. Remove any unused pipework from foreshore.</p> <p>As the works are designed as a temporary measure, it is recommended that an alternative access arrangement into the hamlet is made [Urgent].</p> <p>Monitor performance of drainage units, ensuring outfalls behave as designed.</p> <p>In the longer term, it is recommended that the Council, residents and other local stakeholders start planning for 'adaptation to coastal change' in the medium to longer term. This may involve relocating inland.</p>		

Appendix B - Grand Summary

Staithe

SBC Reference	NFCDD Ref	Condition/Priority	Risk
N/A	1221D901D0402C01	C 2	
N/A	1221D901D0402C02	B 3	
N/A	1221D901D0402C03	C 3	
N/A	1221D901D0402C06	C 3	
N/A	1221D901D0402C04	C 3	
02-04-01	1221D901D0402C22	C 2	
03-04-01	1221D901D0402C05	B 3	
N/A	1221D901D0403C07	B 4	
04-04-01	1221D901D0403C01	B 3	
N/A	1221D901D0403C02	B 4	
N/A	1221D901D0403C04	B 3	
N/A	1221D901D0403C03	B 3	
N/A	1221D901D0403C05	B 4	

Runswick Bay

SBC Reference	NFCDD Ref	Condition/Priority	Risk
07-07A-01	1221D901D0601C01	B 3	
07-07A-03	1221D901D0601C06	B 4	
08-07A-01	1221D901D0601C03	B 4	
08-07A-02	1221D901D0601C03 001	A 4	
08-07A-03	1221D901D0601C03 002	B 4	
08-07A-04	1221D901D0601C02	C 2	
09-07A-01	1221D901D0601C04	B 3	
10-07B-02	1221D901D0602C01 002	B 3	
N/A	1221D901D0602C05	B 3	
07-07A-02	1221D901D0601C01 001	B 4	
08-07A-05	1221D901D0601C07 001	B 4	
08-07A-06	1221D901D0601C07	B 4	
09-07A-02	1221D901D0601C04 001	B 4	
10-07A-01	1221D901D0602C01	B 4	
10-07B-01	1221D901D0602C01 001	B 4	

Sandsend

SBC Reference	NFCDD Ref	Condition/Priority	Risk
13-09A-01	1221D901D0701C02001	C 3	
13-09A-02	1221D901D0701C02	B 3	
13-09A-03	1221D901D0701C02002	B 3	
14-09B-01	1221D901D0702C01	C 2	
14-09B-02	1221D901D0702C01001	B 3	
14-09B-03	1221D901D0702C01002	C 2	
14-09B-04	1221D901D0702C01003	B 3	
14-09B-05	1221D901D0702C01004	C 2	
14-09B-06	1221D901D0702C01005	B 3	
14-09B-07	1221D901D0702C01006	C 2	
15-09B-01	1221D901D0702C04	B 3	
15-09B-02	1221D901D0702C03	B 3	
15-09B-03	1221D901D0702C03001	B 3	
15-09B-04	1221D901D0702C03002	B 3	
15-09B-05	1221D901D0702C03003	B 3	
16-09C-02	1221D901D0702C02003	B 3	
16-09C-03	1221D901D0702C02004	B 2	
16-09C-04	1221D901D0702C02005	A 4	
16-09C-05	1221D901D0702C02006	A 4	
17-09C-01	1221D901D0702C02007	A 4	
17-09C-02	1221D901D0702C02008	A 4	
17-10-01	1221D901D0702C02009	A 4	
17-10-02	1221D901D0702C02010	A 4	
15-09B-06	1221D901D0702C02	B 4	
15-09B-07	1221D901D0702C02001	B 4	
16-09C-01	1221D901D0702C02002	B 4	

Whitby

SBC Reference	NFCDD Ref	Condition/Priority	Risk
N/A	1221D901D0803C05	B 3	
18-11A-02	1221D901D0801C01	B 3	
18-11A-03	1221D901D0801C01002	C 3	
18-11A-04	1221D901D0801C01003	B 3	
19-11A-01	1221D901D0802C01	C 3	
70-11A-01	1221D901D0802C02	B 3	
70-11A-02	1221D901D0802C02001	B 3	
70-11A-03	1221D901D0802C02002	B 3	
70-11A-04	1221D901D0802C02003	C 3	
71-11A-01	1221D901D0802C03	C 2	
71-11A-02	1221D901D0802C13001	B 3	
71-11A-03	1221D901D0802C13	C 2	
71-11A-04	1221D901D0802C13002	C 2	
71-11A-05	1221D901D0802C14	C 2	
20-11A-01	1221D901D0802C04001	C 3	
20-11A-02	1221D901D0802C04	C 3	
21-11A-01	1221D901D0802C07	C 3	
21-11A-02	1221D901D0802C07001	C 3	
22-11A-01	1221D901D0802C06	C 3	
22-11A-02	1221D901D0802C06001	C 3	
22-11A-03	1221D901D0802C15	C 3	
N/A	1221D901D0802C05	C 3	
24-11B-01	1221D901D0802C09	B 3	
25-11B-01	1221D901D0802C10	B 3	
25-11B-02	1221D901D0802C12002	B 3	
25-11B-03	1221D901D0802C12003	B 3	
26-11B-01	1221D901D0802C12	B 2	
26-11B-02	1221D901D0802C12001	B 3	
27-11B-01	1221D901D0803C02	A 4	
N/A	1221D901D0803C01	B 3	
N/A	1221D901D0803C07	C 3	
N/A	1221D901D0803C10	B 3	
N/A	1221D901D0803C08	B 3	
N/A	1221D901D0803C09	C 3	
N/A	1221D901D0803C03	A 4	
N/A	1221D901D0803C04	B 3	
18-11A-01	1221D901D0801C01001	B 4	
N/A	1221D901D0803C06	B 4	

Robin Hood's Bay

SBC Reference	NFCDD Ref	Condition/Priority	Risk
33-16A-02	1221D901D1003C02	C 2	Yellow
34-16A-01	1221D901D1003C04	C 2	Yellow
35-16B-01	1221D901D1003C05	B 3	Yellow
36-16B-01	1221D901D1003C06	B 2	Yellow
36-16B-02	1221D901D1003C10	B 3	Yellow
37-16C-03	1221D901D1003C07	C 2	Yellow
32-16A-01	1221D901D1002C02	B 4	Green
32-16A-02	1221D901D1003C01001	B 3	Yellow
33-16A-01	1221D901D1003C01	B 4	Green
36-16B-03	1221D901D1003C09001	B 4	Green
37-16C-01	1221D901D1003C09	B 4	Green
37-16C-02	1221D901D1003C07001	B 4	Green

Scarborough North Bay

SBC Reference	NFCDD Ref	Condition/Priority	Risk
40-20A-01	1221D901D1201C02004	C 3	Yellow
39-20A-01	1221D901D1201C01	B 4	Green
39-20A-02	1221D901D1201C02	B 3	Yellow
39-20A-03	1221D901D1201C02002	C 3	Yellow
39-20A-04	1221D901D1201C02003	B 3	Yellow
40-20A-02	1221D901D1201C03	C 2	Yellow
40-20A-03	1221D901D1201C03001	B 4	Green
40-20A-04	1221D901D1201C24	C 3	Yellow
40-20A-06	1221D901D1201C25	C 3	Yellow
41-20A-01	1221D901D1201C04001	B 3	Yellow
41-20A-02	1221D901D1201C04	B 3	Yellow
41-20A-03	1221D901D1201C10001	B 3	Yellow
41-20A-04	1221D901D1201C10	B 3	Yellow
43-20B-01	1221D901D1201C06	B 3	Yellow
43-20B-03	1221D901D1201C19	B 3	Yellow
43-20B-04	1221D901D1201C20001	B 3	Yellow
44-20B-01	1221D901D1201C20	B 3	Yellow
44-20B-02	1221D901D1201C07	C2	Yellow
44-20B-03	1221D901D1201C07001	B 3	Yellow
44-20B-04	1221D901D1201C07002	B 3	Yellow
44-20B-05	1221D901D1201C21	B 3	Yellow
45-20B-01	1221D901D1201C08001	D 2	Red
45-20B-02	1221D901D1201C08	B 3	Yellow
39-20A-01	1221D901D1201C02001	B 4	Green
40-20A-05	1221D901D1201C24001	B 3	Yellow
42-20A-02	1221D901D1201C26	B 4	Green
42-20A-03	1221D901D1201C26001	B 4	Green
42-20A-04	1221D901D1201C11	B 4	Green
42-20A-05	1221D901D1201C11001	B 4	Green
42-20A-06	1221D901D1201C12	B 4	Green
42-20A-07	1221D901D1201C12001	B 4	Green
42-20A-08	1221D901D1201C13	B 4	Green
42-20A-09	1221D901D1201C13001	B 4	Green
42-20A-10	1221D901D1201C14	B 4	Green
42-20A-11	1221D901D1201C14001	B 4	Green
42-20A-12	1221D901D1201C15	B 4	Green
42-20A-13	1221D901D1201C15001	B 3	Yellow
42-20A-14	1221D901D1201C16	B 4	Green
42-20A-15	1221D901D1201C16001	B 4	Green
42-20A-16	1221D901D1201C05	B 4	Green
42-20A-17	1221D901D1201C05001	A 4	Green
42-20A-18	1221D901D1201C17	B 4	Green
42-20A-19	1221D901D1201C17001	B 4	Green
42-20A-20	1221D901D1201C18	B 4	Green
42-20A-21	1221D901D1201C18001	B 4	Green
43-20B-02	1221D901D1201C06001	B3	Yellow

Scarborough, The Holms and Castle Headland

SBC Reference	NFCDD Ref	Condition/Priority	Risk
45-20B-03	1221D901D1202C23	C 3	
46-20B-01	1221D901D1202C01	B 4	
46-20B-02	1221D901D1202C01001	B 3	
46-20B-03	1221D901D1202C03003	B 4	
46-20B-04	1221D901D1202C03	B 4	
46-20B-05	1221D901D1202C03002	A 4	
46-20B-06	1221D901D1202C03001	A 4	
46-20B-07	1221D901D1202C04	B 4	
N/A	1221D901D1202C02	B 4	

Scarborough Harbour and South Bay

SBC Reference	NFCDD Ref	Condition/Priority	Risk
N/A	1221D901D1301C16	B 3	
N/A	1221D901D1301C01	B 3	
N/A	1221D901D1301C02	B 3	
N/A	1221D901D1301C04	B 3	
N/A	1221D901D1301C03	C 3	
N/A	1221D901D1301C17	B 3	
N/A	1221D901D1301C05	B 3	
N/A	1221D901D1301C12	C 3	
N/A	1221D901D1301C11	B 3	
N/A	1221D901D1301C06	B 3	
N/A	1221D901D1301C14	B 3	
N/A	1221D901D1301C13	B 3	
N/A	1221D901D1301C18	C 2	
49-21B-05	1221D901D1301C18001	C 2	
49-21B-04	1221D901D1301C07	C 2	
49-21B-03	1221D901D1301C07001	B 3	
49-21B-02	1221D901D1301C19	C 2	
49-21B-01	1221D901D1301C08	B 4	
51-22A-01	1221D901D1301C20	B 3	
51-22A-02	1221D901D1301C15	B 3	
51-22A-03	1221D901D1301C15001	B 4	
51-22A-04	1221D901D1301C21	B 3	
51-22A-05	1221D901D1301C21001	B 4	
51-22A-06	1221D901D1301C22	B 3	
51-22A-07	1221D901D1301C22001	B 3	
51-22A-08	1221D901D1301C23	B 3	
51-22A-09	1221D901D1301C23001	B 4	
51-22A-10	1221D901D1301C24	B 3	
51-22A-11	1221D901D1301C24001	B 3	
51-22A-12	1221D901D1301C25	B 2	
52-22A-01	1221D901D1301C09001	B 4	
52-22A-02	1221D901D1301C09	B 3	
52-22A-03	1221D901D1301C09002	B 4	

Scarborough Harbour and South Bay (cont.)

52-22A-04	1221D901D1301C10	C 1	
53-22B-01	1221D901D1301C10001	B 3	
53-22B-02	1221D901D1301C26	B 3	
53-22B-04	1221D901D1301C26001	B 3	
53-22B-05	1221D901D1301C27	B 2	
53-22B-06	1221D901D1301C28	B 3	
53-22B-07	1221D901D1301C29	C 2	
53-22B-08	1221D901D1302C01001	B 3	
54-22B-01	1221D901D1302C01	C 2	
54-22B-02	1221D901D1302C01002	C 2	
54-22B-03	1221D901D1302C03	B 3	
56-22B-04	1221D901D1302C02001	B 3	
55-22B-01	1221D901D1302C02	C 2	
56-22B-02	1221D901D1302C02002	B 3	
56-22B-03	1221D901D1302C02003	C 2	
56-22B-04	1221D901D1302C02004	B 3	
56-22B-05	1221D901D1303C02	B 3	
56-22B-06	1221D901D1303C02001	B 3	
56-22B-07	1221D901D1304C02	C 3	
N/A	1221D901D1301C01	B 4	
51-22A-03	1221D901D1301C15001	B 4	
51-22A-05	1221D901D1301C21001	B 4	
51-22A-09	1221D901D1301C23001	B 4	
52-22A-01	1221D901D1301C09001	B 4	
52-22A-03	1221D901D1301C09002	B 4	
56-22B-08	1221D901D1304C01	B 4	
56-22B-09	1221D901D1304C01001	B 3	

NB: Repairs subsequently made to SBC asset **55-22B-01**

Cayton Bay

SBC Reference	NFCDD Ref	Condition/Priority	Risk
59-24B-01	1221D901D1402C05	B 3	
60-24B-01	1221D901D1402C04	D 1	
60-24B-01	1221D901D1402C06	D 1	
58-24B-01	1221D901D1402C02	C 3	

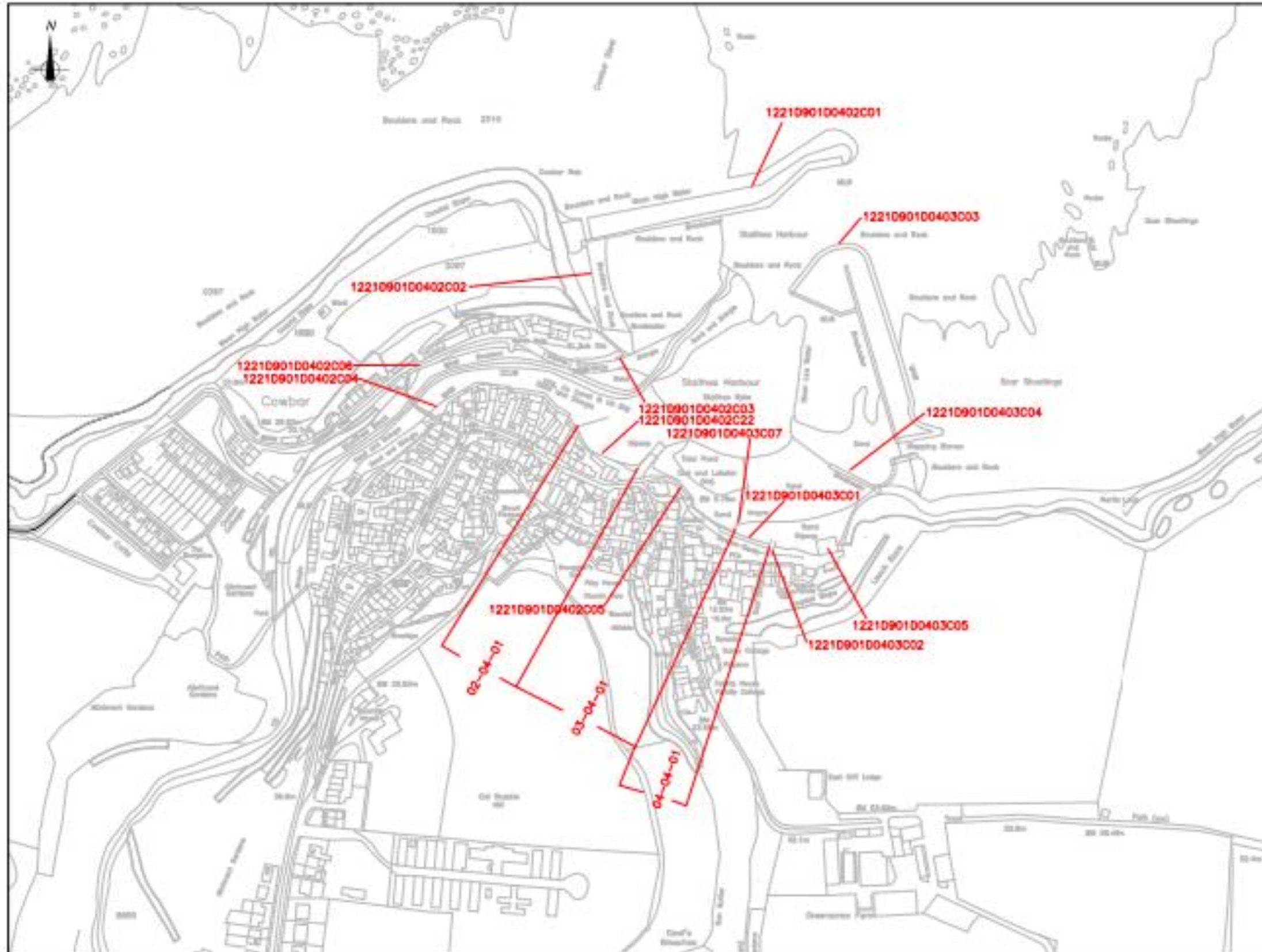
Filey

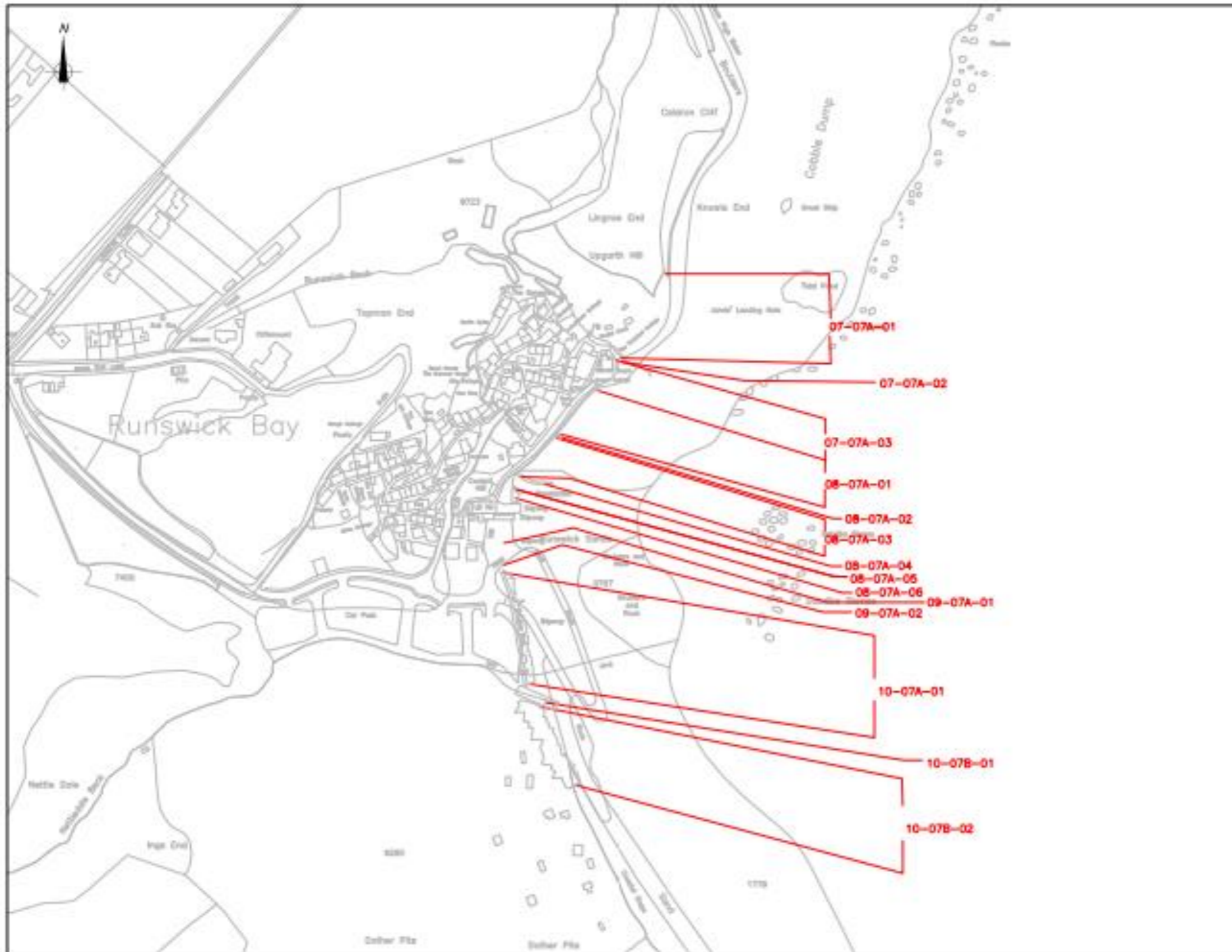
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64-28A-02	1221D901D1601C03	B 4	
64-28A-01	1221D901D1601C03001	C 3	
N/A	1221D901D1602C09002	D 2	
N/A	1221D901D1602C09	C 2	
N/A	1221D901D1602C01	C 2	
67-28B-01	1221D901D1602C06	B 2	
67-28B-02	1221D901D1602C08001	B 3	
67-28B-03	1221D901D1602C08	B 2	
67-28B-04	1221D901D1602C03002	B 3	
67-28B-04	1221D901D1602C03003	B 3	
67-28B-05	1221D901D1602C03	C 3	
N/A	1221D901D1602C03001	B 3	
67-28B-06	1221D901D1602C04002	B 3	
67-28B-07	1221D901D1602C04	B 3	
67-28B-08	1221D901D1602C04001	B 3	
67-28B-09	1221D901D1602C07	B 3	
67-28B-10	1221D901D1602C05001	B 3	
67-28B-11	1221D901D1602C05	B 3	
N/A	1221D901D1601C02	D 4	
67-28B-13	1221D901D1602C02	C 2	
N/A	1221D901D1601C02	D 4	
N/A	1221D901D1602C09001	B 4	
67-28B-12	1221D901D1602C02001	B 3	

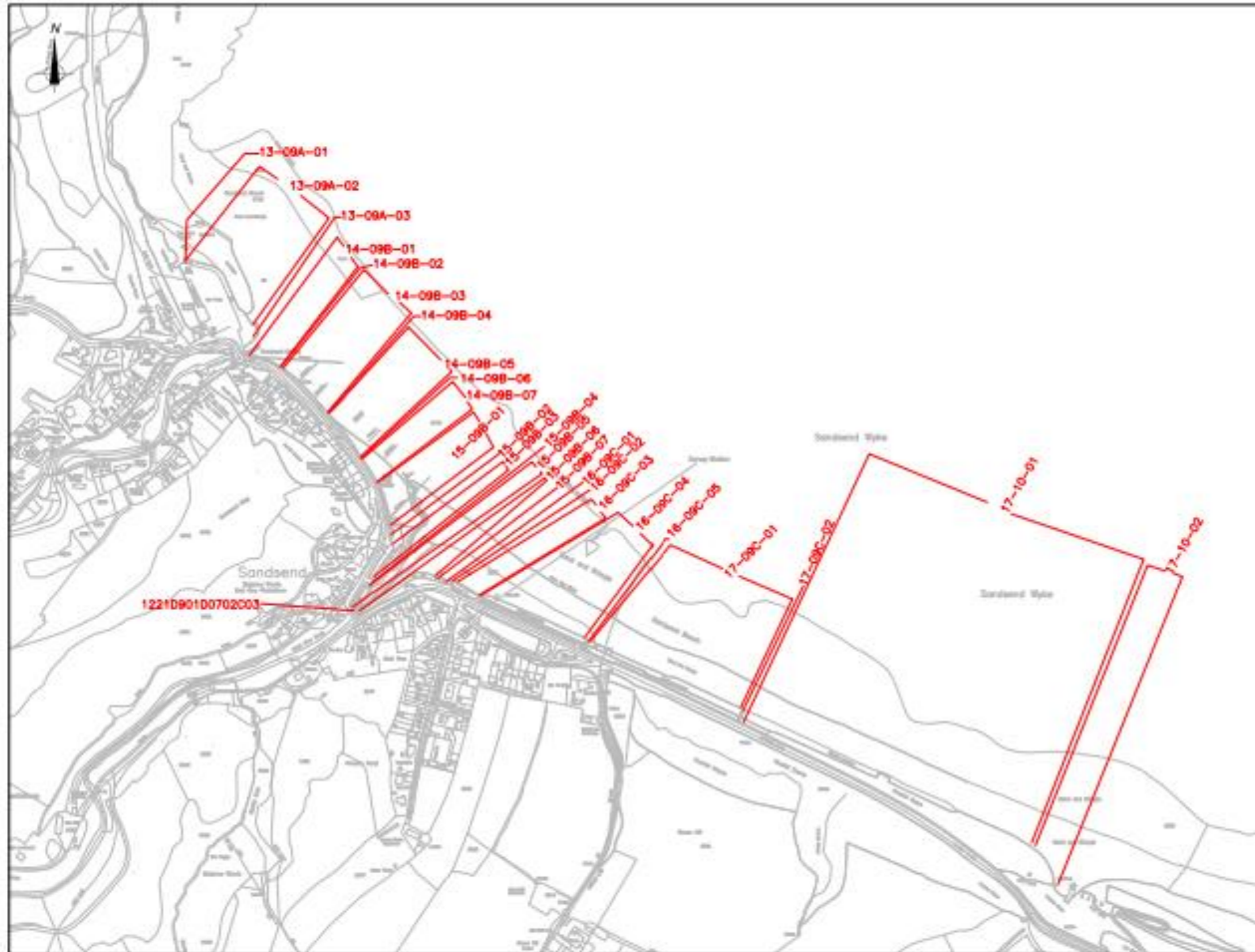
Appendix C - Asset Location Drawings

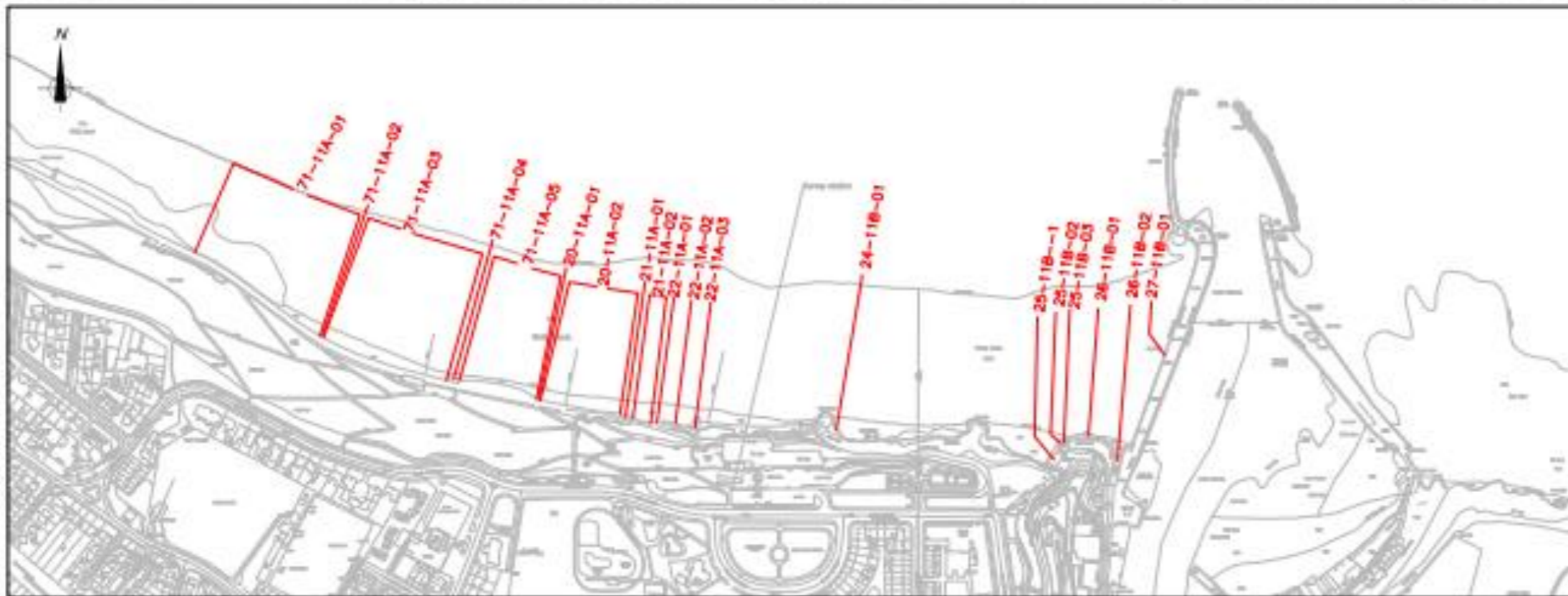
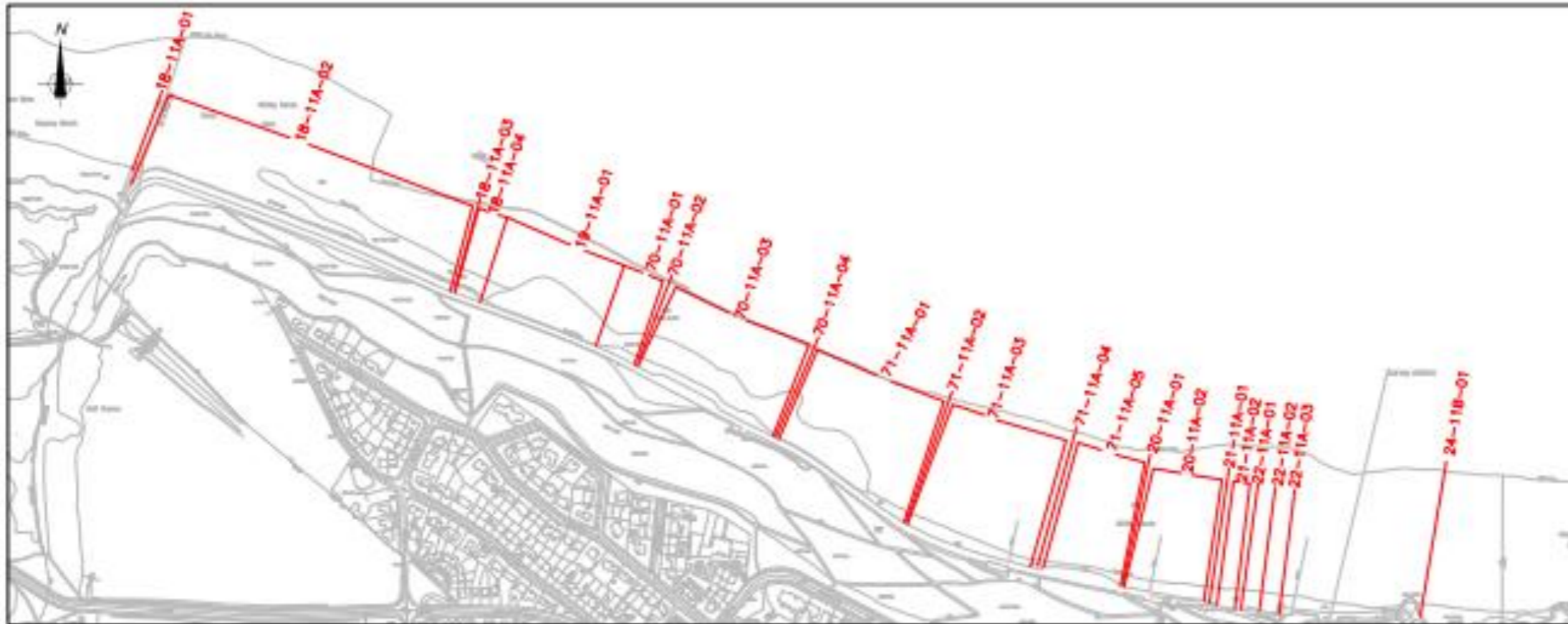
Drawing Numbers:

- 457730-01 – Staithes
- 457730-02 – Runswick Bay
- 457730-03 – Sansend
- 457730-04 – Whitby
- 457730-05 – Robin Hood's Bay
- 457730-06 – Scarborough North Bay and Holms and Castle Headland
- 457730-07 – Scarborough Harbour and South Bay
- 457730-08 – Cayton Bay and Filey

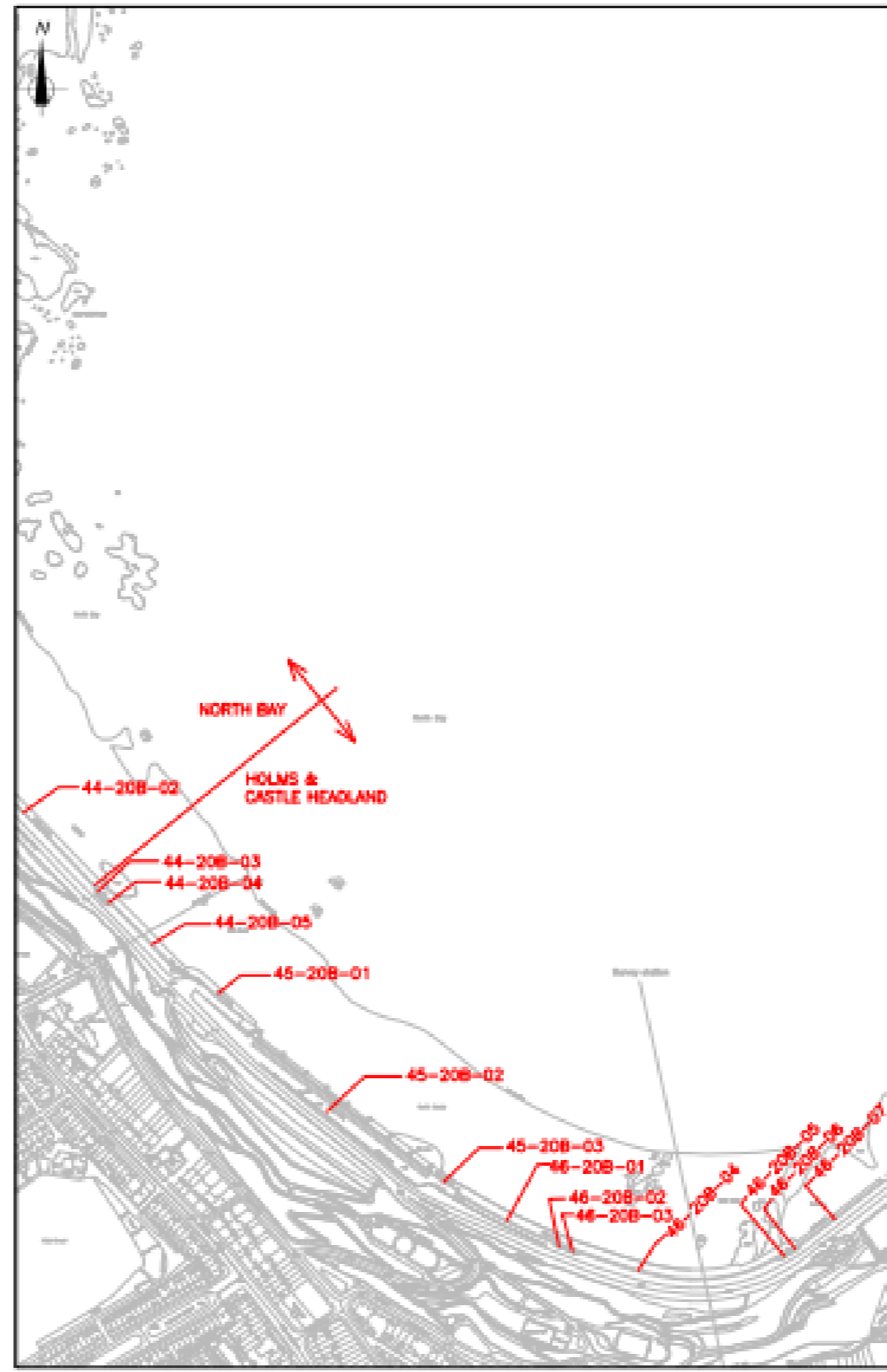
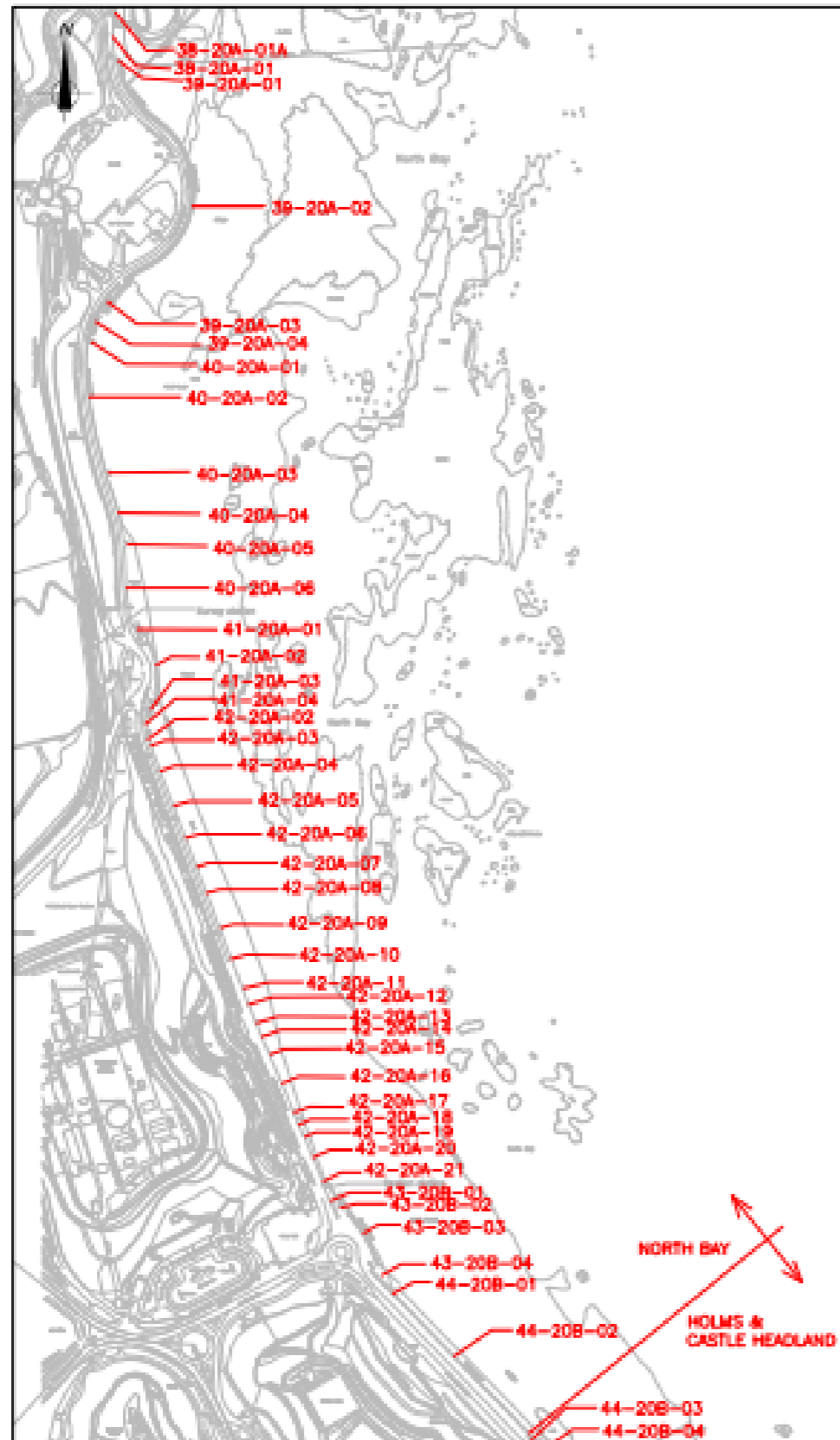


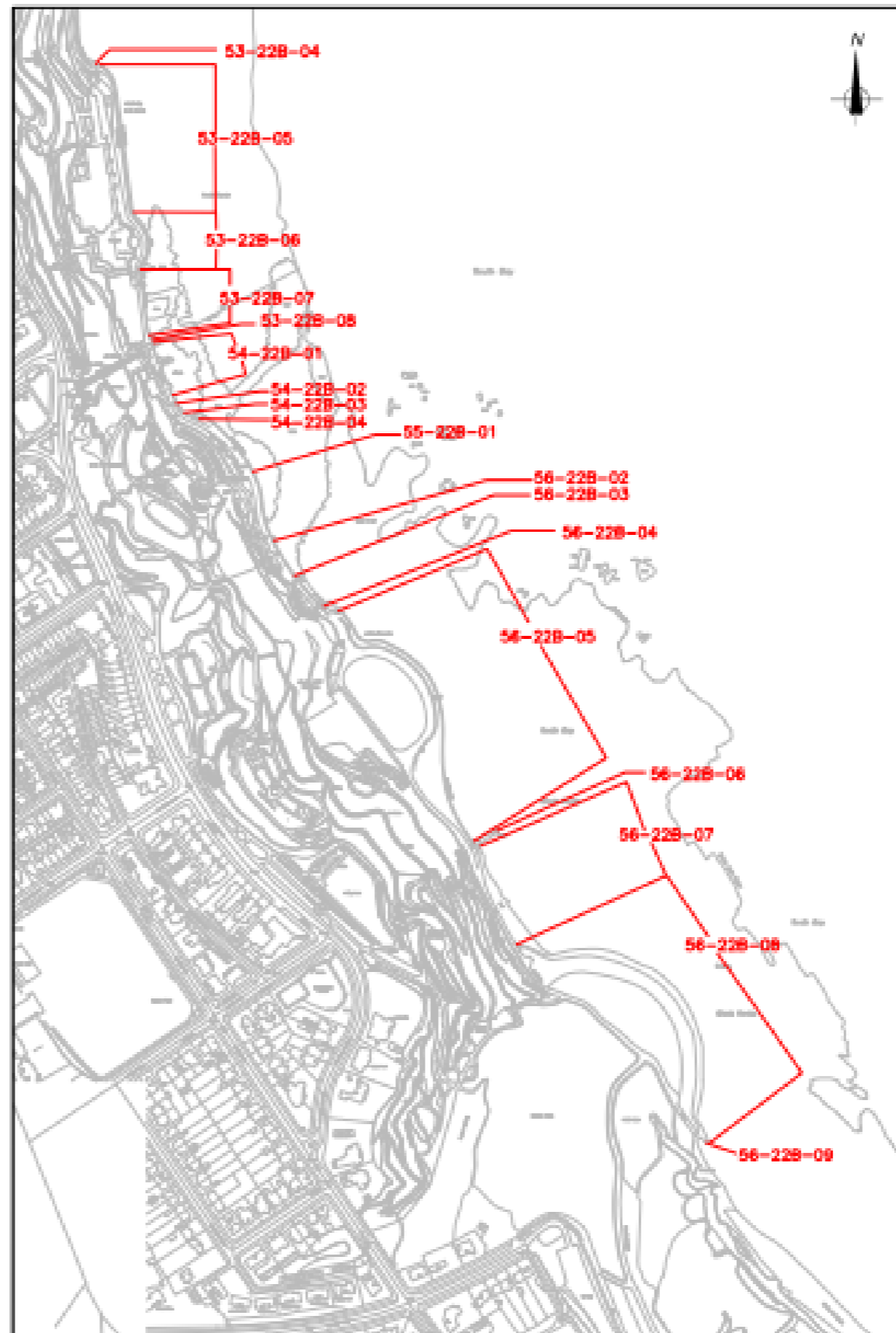
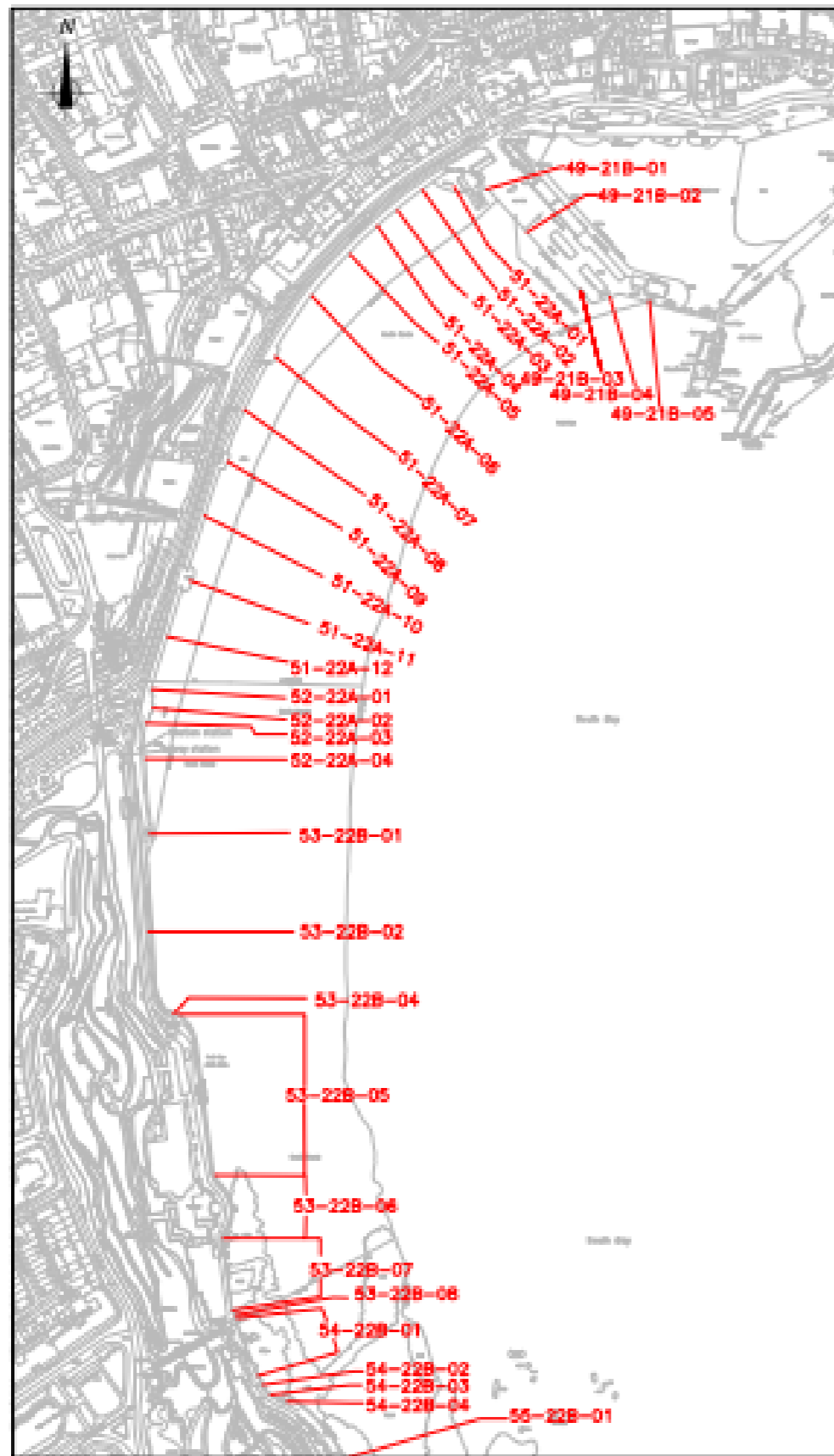


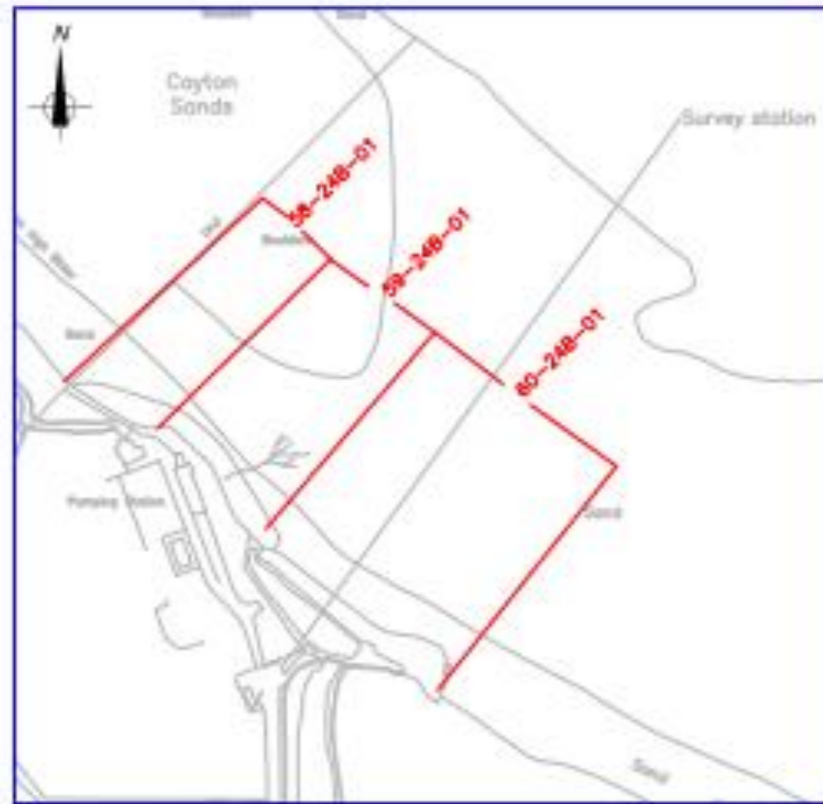




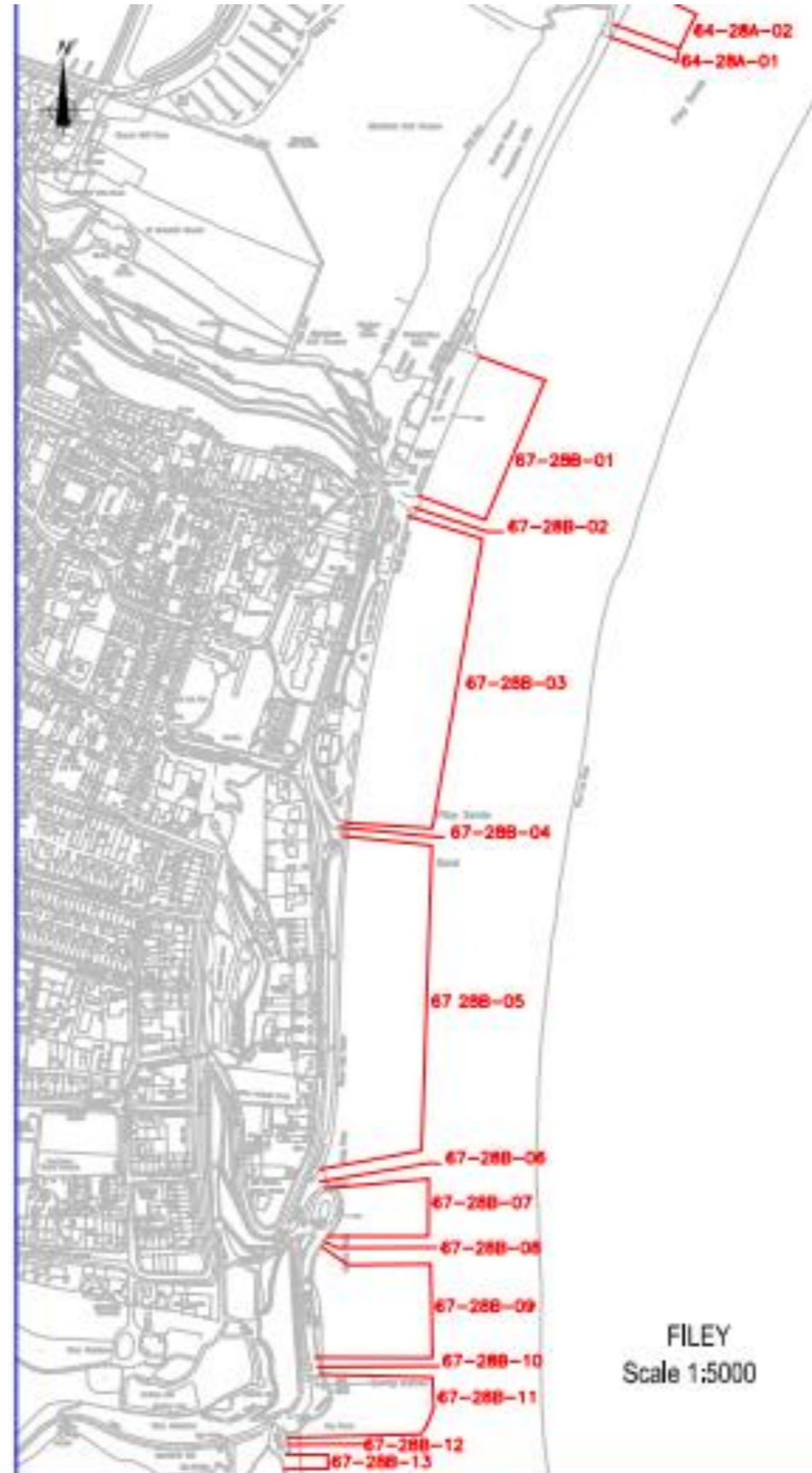
457730-06 – Scarborough North Bay and Holms and Castle Headland







CAYTON BAY
Scale 1:2500



FILEY
Scale 1:5000