

Intended for
Viking Energy Wind Farm LLP

Date
November 2023

Project Number
1620009158

VIKING ENERGY WIND FARM PLANNING MONITORING OFFICER AUDIT REPORT 037: 14TH OCTOBER TO 22ND NOVEMBER 2023

**VIKING ENERGY WIND FARM
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037: 14TH OCTOBER TO 22ND NOVEMBER 2023**

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1. AUDIT DETAILS

1.1 Audit Details

Audit Number	PMO 036
Location	Kergord Mid Kame Ridge North Nesting Nesting Sandwater Road
Weather Conditions	Wet and windy (7°C)
Audit Date	8 th November 2023
Audit Period	14 th October – 22 nd November 2023
Audit Owner	Ramboll UK Ltd

1.2 Distribution

Position	Action
Ramboll Project Director Planning Monitoring Officer	For information
SSE Renewables Development Manager	For information
SSE Renewables Consents Manager	For information
SSE Renewables Environmental Advisor	For information
SSE Renewables Vestas Package Manager	For information
RJ McLeod Design Management Engineer	For Information
Shetland Islands Council Planning Enforcement Officer	For information
Shetland Islands Council Natural Heritage Officer	For information

1.3 Terms of Reference

This audit has been completed with reference to the following key documents:

- Application under Section 36C of the Electricity Act 1989 to vary the consent granted under Section 36 of that Act on 4 April 2012 to construct and operate the Viking Wind Farm located in Shetland Islands Council Planning Authority Area and for a direction under Section 57 of the Town and Country Planning (Scotland) Act 1997 for planning permission to be deemed to be granted in respect of the proposed development (i.e. the 'Variation Application').

The Viking Wind Farm project will comprise the construction of 103 wind turbines with a turbine tip height of 155 m; development of a temporary construction compound; construction of associated access tracks; development of a substation; development of a convertor station; erection of permanent Met Masts; and the excavation of borrow pits.

The project was consented as detailed above, receiving Section 36C Consent and deemed planning permission on the 24th of May 2019.

Separate planning consents are in place for the following specific aspects of the development:

- Construction of the Kergord Access Track¹ (consented on the 29th of April 2019).
- Re-alignment of Sandwater Road² between the Burn of Weisdale and the junction with the A970 to facilitate construction access for the Viking Wind Farm (consented on the 26th of May 2020).
- Formation of temporary construction compounds at two locations; Sandwater (Main)³, consented on 22nd June 2020; and North (South of Voe)⁴ consented on the 9th of September 2020.

1.4 Role of the Planning Monitoring Officer

Condition No. 3 of the Variation Application states that:

“No development shall commence unless and until the Planning Authority has approved in writing the terms of appointment by the Company of an independent and suitably qualified environmental consultant to assist the Planning Authority in monitoring compliance with the terms of the deemed planning permission and conditions attached to this consent (a Planning Monitoring Officer (“PMO”). The terms of the appointment shall:

- Impose a duty to monitor compliance with the terms of the deemed planning permission and conditions attached to this consent;
- Require the PMO to submit a monthly report to the Planning Authority summarising works undertaken on site; and
- Require the PMO to report to the Planning Authority any incidences of non-compliance with the terms of the deemed planning permission and conditions attached to this consent at the earliest practical opportunity.

The PMO shall be appointed on the approved terms throughout the period from Commencement of Development to completion of post construction restoration works.

In order to discharge the above requirements, the PMO undertakes site-based audits at monthly intervals to monitor the compliance with the conditions of the consent. The primary documents used for compliance monitoring are the Construction Environmental Management Plan (CEMP); and the Pollution Prevention Plan (PPP). Additional documents will be referenced as required for specific detail.

The following traffic light system is used to indicate action status:

	Green – activities appear to be compliant with the CEMP, PPP and other applicable environmental management procedures and plans and there are no other issues.
	Amber – in general activities are compliant with the CEMP, PPP and other applicable environmental management procedures and plans but there are minor actions required.
	Red – activities may not be compliant with the CEMP, PPP and other applicable environmental management procedures and there are critical actions.

¹ Shetland Islands Council Planning Reference No: 2018/096/PPF

² Shetland Islands Council Planning Reference No: 2019/079/PPF

³ Shetland Islands Council Planning Reference No: 2019/188/PPF

⁴ Shetland Islands Council Planning Reference No: 2019/210/PPF

1.5 General Limitations and Reliance

This report has been prepared by Ramboll UK Limited ("Ramboll") exclusively for the intended use by Viking Energy Wind Farm LLP (the "client"). No other warranty, expressed or implied, is made as to the professional advice included in this report or in respect of any matters outside the agreed scope of the services or the purpose for which the report and the associated agreed scope were intended, or any other services provided by Ramboll.

In preparation of the report and performance of any other services, Ramboll has relied upon site observations, publicly available information, information provided by the client and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to Ramboll was accurate, complete and available to Ramboll within the reporting schedule.

Ramboll's services are not intended as legal advice, nor an exhaustive review of site conditions and/or compliance. This report and accompanying documents are intended to form a record for the purpose of documenting compliance with Condition No. 3 of the Variation Application.

Ramboll neither owes nor accepts any duty to any third party, unless formally agreed by Ramboll through that party entering into, at Ramboll's sole discretion, a written reliance agreement.

2. INTRODUCTION

2.1 Objectives of Audit

The purpose of the PMO Audit is to monitor the provision of appropriate environmental management at active work sites of the project, via desk-based review of relevant documentation and site visits to be undertaken on a monthly basis to ensure compliance with the conditions of the planning consent and associated environmental management plans.

2.2 Scope of Audit

The scope of the audit was as follows:

- Liaison with Shetland Islands Council (SIC) regarding public concerns or complaints received during the audit period (if any).
- Review of documents provided by the Client and Principal Contractor prior to and following the audit visit. Specific references are included in the relevant sections of the report.
- A site visit attended by the PMO and SSE Renewables Environmental Advisor as undertaken on the 8th of November 2023. The site visit included the observation of the following locations:
 - Kergord;
 - Sandwater Road;
 - Main Compound;
 - North Nesting; and
 - Nesting.
- Discussions were held with the RJ McLeod Design Management Engineer, SSER Geotechnical Clerk of Works (GCoW), Environmental Clerk of Works (ECoW), Archaeological Clerk of Works (ACoW) and Vestas' Package Manager.

A selection of photographs taken during the audit are included in Appendix 1.

2.3 Site Personnel

The following site personnel were interviewed as part of this audit:

Company	Position
RJ McLeod	Design Management Engineer
Tony Gee and Partners	Geotechnical Clerk of Works
MBEC	Environmental Clerk of Works
Headland Archaeology	Archaeological Clerk of Works
SSE	Vestas Package Manager

3. SITE SETTING, RECORDS AND OBSERVATIONS

Observations made during the audit are described in this section. Corresponding photographs are included in Appendix 1, alongside a plan of the site indicating the location of each photograph. The turbine numbers used in the site plan have been updated to the operational numbering. The turbine numbering system previously shown is being phased out following completion of turbine erection.

3.1 Kergord

3.1.1 Site Setting and Activities

Access to the Kergord Arrays is taken via the Kergord Access Track (KAT), which is accessed from the Sandwater track along the southern boundary of the central area of the development. On the day of the audit however, on-going drainage works along Sandwater track were blocking the road temporarily, and access was gained via the Hamarigrind Scord entrance and along Mid Kame Ridge.

Activities observed in this area during the audit included backfilling of the cross-country routes, completion of track and drainage reinstatement works, borrow pit reinstatement, reprofiling of road and internal commissioning works. The cable jointing and cable testing in Kergord are complete. All turbines in the area have been erected and are now undergoing sequential commissioning.

3.1.2 Observations

The majority of the cable trenches have been backfilled and all cable jointing and cable testing are now complete. Much of this area has been reinstated and hydroseeded. Hydroseeding works concentrated on the backfilled cable tracks and have been completed for this season. The hydroseeding appears to be successful, with good growth observed on completed areas across Kergord (photo 1). The remaining of the hydroseeding works will be undertaken in spring / summer of 2024.

The drainage and water treatment system at KBP02 were observed during the audit visit (photo 2). The drainage from the borrow pit is being continually monitored and the treatment system continually checked and maintained to ensure best performance. SSE and The Principal Contractor are aware that further upgrades to the drainage system into the Burn of Lunklet may be required. This will be continually assessed over the winter period and chemical testing and reporting will continue to be shared with SEPA.

KBP05 is being used by Vestas as a satellite compound and comprises a refuelling bund. During the previous audit visit, works were underway to re-sheet the area and reinstate the gravel base of the bund. This area was inspected during the November audit visit. It was observed that satisfactory works have been undertaken, with the plastic sheeting having been successfully replaced and showing no evidence of wear or tear (Photo 3 and 4). It was indicated that limited activity is now taking place at this compound, except for welfare facility and the refuelling bund. Reprofiling of the back of the pit was observed during the audit visit (photo 5). The compound was observed to be tidy and well maintained.

During the visit, backfilled trenches along the track from Upper Kergord to the substation were observed from a distance at Mid Kame Ridge, with on-going backfilling works being undertaken towards the upper section of the track (photo 6).

3.2 Mid Kame Ridge and Sandwater Track

3.2.1 Site Setting and Activities

The Mid Kame Ridge (MKR) is accessed from the Sandwater track and stretches northwards to Hamarigrind Scord, however on the day of the audit it was accessed via the Hamarigrind Scord entrance to the north.

Activities at the MKR ridge at the time of the visit included backfilling of the cross-country routes in conjunction with the completion of cable testing, internal commissioning works, and drainage works and reprofiling at Sandwater track.

3.2.2 Observations

During the audit, silty water was observed in the drains at the bottom of the MKR track at T046 (photo 7), before the drain water flows into settlement ponds. The track was observed to be muddy (photo 8), which was explained to be as a consequence of the increased traffic due to the temporary closure of the Sandwater track to allow permanent drainage installation works to proceed. The silty water was therefore concluded to be surface runoff from the muddy track. SSE indicated that they would report these issues for the Principal Contractor to deal with following the audit visit. SSE also indicated that the report of such issues forms part of the snagging process which includes drain improvement, where required. It should be noted that while there was evidence of dirty water in the drains from the track and hardstanding areas, the drains and downstream silt fences were functioning as intended to control water and allow it to settle. There was no evidence of off-site silty water migration from the drains.

Litter was noted on settlement ponds along and to the west of the MKR track (photo 9). It was indicated that a litter purge was planned across the entire site over the next few weeks following the audit visit. It was discussed that tool box talks about littering should be regularly given to all contractors to prevent litter being left across the site, particularly once the litter purge will be completed to avoid re-littering of the site. The next audit visit should put particular focus on noting whether litter is present across the entire site, and confirmation that contractors have been reminded of their duty to not create any litter.

The cable testing was on-going on both cross-country routes. Following the successful testing of the cables, the access route will be removed and the areas reprofiled.

At Sandwater track, planned culvert replacement works were on-going during the audit visit (third culvert), with a stone backfill being placed over the last of the three replaced culverts (Photo 10). Pumps were observed to be in place to manage the water from around the works and prevent any impact to the Sandwater Loch. Completed backfilling of the second culvert was also observed (Photo 11), with headwalls and landscaping still to be undertaken. The Geotechnical advisor for the works was present at the time of the visit and gave a rundown of the works undertaken to date, with no major concerns reported. It was indicated that the works were nearing completion. The next audit visit should include an inspection of the completed works.

A silty water event occurred on the 2nd of November which originated from the works for the installation of the last culvert. A sudden and unexpected groundwater ingress occurred at the start of the ground excavation works around the plastic culvert. During the removal of the first two plastic culverts, mitigation measures put in place were successful in keeping the areas dry. Similar mitigation measures were in place during the removal of the third culvert, however unexpected groundwater entered the works when the pipe was removed, temporarily allowing

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water, now tainted with fines, into the managed dry channel. The machinery was there to immediately block the flow and divert it back to the mitigation system, resulting in the water ingress being controlled and lasting for a short period of time of approximately 20 minutes. While some discolouration was noted at the loch side, it was short lived and below reportable levels. The discolouration dissipated within 30 minutes of the event being brought under control.

On Friday the 3rd of November, a hydraulic hose from the pumps became loose and a small volume of plant-based oil was lost to ground, some of which was entrained with rainwater. The majority of the mobilised oil was retained by the silt fences downgradient from the point of loss. The oil lost emulsified immediately within the settlement pond on contact with the water and was skimmed and collected with absorbent pads, however a small volume of oil was noted to have impacted the edge of the Loch. It was reported that the volume of oil lost to ground was less than 1 litre, therefore the impact to the loch would have been negligible. The incident was reported to SEPA who visited the site of the incident and confirmed no observable impact to the loch.

3.3 North Compound

3.3.1 Site Setting and Activities

The North Compound is located towards the northern limit of the site on the eastern side of the A970 and is used by Vestas. The lower section of the compound is used as a welfare area. There is less usage of the upper area of the compound for waste and storage and this area is being wound down.

3.3.2 Observations

The north compound did not form part of this audit visit.

3.4 North Nesting

3.4.1 Site Setting and Activities

The northern Nesting turbine arrays are located towards the northern limit of the site on the eastern side of the A970.

Activities in this area during the audit included backfilling of the cable jointing locations, landscaping of turbine hardstanding, completion of track and drainage reinstatement works, borrow pit profiling and internal turbine work. All turbines in the area have been erected and are now undergoing sequential commissioning. Cable testing was complete.

3.4.2 Observations

All cable trenches have been backfilled, with the completion of the backfill of the cross-country routes on-going during the visit. Areas of hydroseeding on the reinstated cable trenches were observed to present a good vegetation cover (photo 12).

During the audit, on-going backfilling and reprofiling works at NBP01 were observed (photo 13). The central area of the pit was observed to be waterlogged with a naturally formed drainage channel in the centre of the pit running in a south to north direction (photo 14). This area is under constant monitoring and improvement works such as drains may be required. Final profiling works are ongoing and in discussion with SSER. This will include the monitoring of the designed passive drainage system. Hydroseeding is scheduled to take place in spring 2024.

Drains were observed along the track 100m from the access gate to North Nesting, with clear water observed to be discharging from the drain (photo 15).

3.5 Main Compound

3.5.1 Site Setting and Activities

The Main Compound is located at the southern extent of the site, accessed from the A970. The lower level comprises car parking and site offices and welfare facilities. The upper level is in use for material and equipment laydown.

3.5.2 Observations

The car parking, original site offices and welfare facilities are functioning well. The lower level only was observed during the site audit and appeared tidy.

3.6 Nesting

3.6.1 Site Setting and Activities

The Nesting arrays are accessed from the A970.

Activities in this area during the audit included backfilling of cable trenches, landscaping of turbine hardstanding, borrow pit reinstatement and internal turbine work. Cable testing in Nesting was complete at the time of the visit.

3.6.2 Observations

During the audit visit, reprofiling works at NBP05 were observed. At the time of the audit the peat was being placed on the edge of the slope to reinstate the original profile (photo 16), and stones were being placed on the track that runs through the pit (photo 17). An alternative reinstatement plan for NBP05 is being progressed through consultation to create an enhanced biodiversity area.

Water in the central area of NPB05 will be retained in a controlled manner to enhance the area. There is constant monitoring of the pit drainage, and the requirement for improvement works will be re-assessed over the winter months. No silty water event was reported at the Burn of Flamister during the audit period, which would indicate that the measures currently in place are successful in controlling silty water run-offs. This area will continue to be monitored and should be revisited during the next PMO audit.

Plant nappies were noted below all commissioning generators observed during the visit. It was indicated that the alternative diesel-powered generators which were used due to a shortage of hybrid generators are being replaced with hybrid generators across the entire site.

3.7 Substation

3.7.1 Site Setting and Activities

The Substation occupies the northern third of the HVDC Converter Station Platform located in the Kergord Valley, between Mid Kame Ridge and Kergord. Access to the Substation is taken via the KAT. Only the substation area is subject to the PMO audit.

3.7.2 Observations

The substation did not form part of this audit visit.

3.8 Communication with SSER Clerks of Work

3.8.1 GCoW

Condition 39 of the planning consent requires the appointment of a Geotechnical Clerk of Works (GCoW) to minimise the risk of peat failure arising from the development. An update was obtained from the GCoW onsite on 8th of November 2023 at the start of the site visit.

The GCoW described the ongoing monitoring work across the site, which has included monitoring of the general construction works including reinstatement of borrow pits, peat restoration areas and providing advice on peat handling.

The GCoW has also been checking items off of the risk register and has been in conversation with the Principal Contractor regarding the remaining items on the risk register. The GCoW continues to be consulted on all aspects of all borrow pit reinstatement works.

3.8.2 ECoW

Condition 19 of the planning consent requires the appointment of an Ecological Clerk of Works (ECoW) to ensure protection of the natural heritage of the area. A discussion was held between the PMO and ECoW before the site visit, on 6th of November 2023.

The ECoW continues to work with the Principal Contractor to identify and implement mitigation measures throughout different stages of construction. The measures aim to ensure the project maintains compliance with relevant licences. The ECoW is monitoring the progress of these measures on an ongoing basis.

The ECoW indicated that the presence of litter across the site had been noted particularly around turbine locations, and that litter picking is in progress. Reminders are being given to contractors of their duty to take litter away with them. The ECoW noted that litter can present a risk to local fauna via entanglement and ingestion.

Borrow pit reinstatement is ongoing and being closely monitored by the ECoW. The ECoW continues to monitor the effectiveness of drainage systems especially where there have been siltation events, both reportable and non-reportable. This will continue to ensure that the permanent drainage systems are as effective as intended.

The incidents at Sandwater Loch during the planned culvert replacement works (as covered in Section 3.2 above) were attended by the ECoW very quickly after they occurred. They provided hands on guidance and assistance to site personnel in resolving the issue promptly.

3.8.3 ACoW

Condition 29 of the planning consent requires the appointment of an Archaeological Clerk of Works (ACoW) to ensure archaeological features are protected and recorded during the development. The ACoW communicated the ongoing works to the PMO on the 6th of November 2023.

The ACoW described that the watching brief requirements have ended and there is no longer a fulltime ACoW presence on site. In agreement with the Regional Archaeologist, the ACoW will provide a visitation role until the end of the year (with provisions thereafter to be assessed). An archaeology protocol has been issued to the Principal Contractor should issues arise during periods of work when the ACoW is off-site. A site visit was undertaken by the Regional Archaeologist. The feedback was positive, and no comments or concerns were raised.

The ACoW indicated that the protocol in place is being well followed, and that there is a good level of communication from the Principal Contractor who has shown to be pro-active in their approach.

3.9 Communication with Vestas' Package Manager

A discussion was held between the SSE Package Manager for the Vestas works and the PMO on the 1st of November 2023.

Vestas confirmed that most of the remaining work is internal to the turbines, causing minimal disruption. At the time of the discussion, 20 turbines were fully commissioned and awaiting grid connection, and 91 out of 103 were in preservation. It was anticipated that by the end of November, all turbines should be in preservation awaiting grid connection.

Plant nappies placement under generators has improved, and it was indicated that all generators being used onsite should be of hybrid type by the end of the month.

No spill was reported during the audit period, however there was a potentially failed gauge for an SF6 tank located within the base of one of the turbines. The ambient air within the turbine was checked and indicated normal oxygen levels. It was indicated that the gauge will be replaced and tank level checked. If levels still appear low, further investigation would be undertaken to assess whether an SF6 gas leak may have occurred. This should be followed up as part of the next audit discussion with the Vestas package manager.

3.10 Communication with SIC

The PMO asked SIC if there had been any observations or complaints from members of the public regarding activities on site. SIC confirmed that no complaints or communications had been received during this audit period.

3.11 Scope of next audit

The scope of the next PMO audit will be dependent on the specific activities undertaken at the development site in the preceding days and weeks. It is noted that the development has transitioned from the construction phase into the "snagging phase", whereby completed works are offered to SSE for review and feedback on issues that might need to be resolved before acceptance. This is likely to include:

- Update on progress of construction works at Kergord, Mid Kame Ridge, Sandwater Road, North Compound and North Nesting, Main Compound, Nesting and Substation.
- Consideration of any comments received by the SIC or the Developer in relation to the works, including visits to view specific areas of concern.
- Update on the site wide reinstatement works and the cross-country cable route backfilling.
- Update on Vestas satellite compounds with particular reference to observations made during previous audit visits.
- Update on borrow pit detailed reinstatement and restoration plans.
- Update on culvert replacement completion works beneath Sandwater Road.
- Update on water management at NBP01.
- Update on water management at NBP05.
- Updates from the ACoW, ECoW and GCoW teams.

4. AUDIT FINDINGS AND REQUIRED ACTIONS

Issue	Auditor Comments	Required Action	Action Owner	Status
Materials Storage and Handling (e.g. oil/fuel storage and peat/mineral soil storage and handling).	<p>Peat restoration areas are managed through the project Habitat Management Plan and by a dedicated HMPO which balances the geotechnical and ecological objectives of the restoration.</p> <p>Potential risks relating to storage of peat are recorded on the PRRs and communicated to the Principal Contractor to allow mitigation / monitoring to be undertaken. The PMO will request evidence in future audits to confirm compliance with requirements for GCoW and ECoW approval of proposed peat restoration areas.</p> <p>The project COSHH stores are typically used for the storage of maintenance oils and greases. The stores were all locked and the assessment for each substance was readily available in each store. The stores were bunded and no leaks or staining was observed around the stores.</p>	Maintain plastic sheet bund in refuelling area. SSE to undertake further audit of the compound.	Vestas/ Principal Contractor	Green
Natural and Built Environment (e.g. ecology, biosecurity, protected sites, archaeology and site restoration).	<p>Ecological constraints identified by the ECoW team are communicated to the Principal Contractor and Developer to allow mitigation measures to be implemented and rescheduling of preparatory and construction work as required. These are also marked out by poles on the site and included on ecological sensitive plans issued to the Principal Contractor.</p> <p>Watching briefs have been undertaken by the ACoW where potential archaeological constraints are identified. Where there are known archaeological features, the track is micro-sited to avoid the feature.</p>	No action required.	N/A	Green

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Issue	Auditor Comments	Required Action	Action Owner	Status
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	<p>The project has received authorisation to abstract water from eight locations from SEPA. The authorisation allows the water to be used for dust suppression management. The PMO has reviewed documents confirming that the appropriate registration is in place with SEPA under The Water Environment (Controlled Activities) (Scotland) Regulations 2011, as amended.</p> <p>The project continues to improve the pollution prevention measures with additional measures installed in high-risk areas (e.g. downstream of KBP02). The PMO observed effective measures in place including but not limited to cut off drains, settlement ponds, silt controls, track side ditches and water pump reactor.</p>	No action required.	N/A	Green
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	<p>Silty water and a small volume of oily water were discharged for a short time into Sandwater Loch during culvert replacement works. This was not a long or uncontrolled continuous discharge. Further mitigation was put in place in the areas of concern.</p>	No action required. Field testing for suspended solids determines whether further action and/or external reporting is required.	Principal Contractor and all sub-contractors	Green
Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).	<p>The SSE Renewables Environmental Manager notified the PMO in March 2023 that there have been some exceedances of Environmental Quality Standards of some trace metals in water quality sampling in the Burn of Lunklet.</p>	Investigation into the source of the trace metals is ongoing. Short-term mitigation measures have been implemented as per the SEPA accepted mitigation plan with long-term mitigation strategy progressing.	VEWF	Amber
Pollution Prevention and Waste (e.g. use of spill kits and littering)	<p>During the August 2023 audit, the PMO observed the plastic sheeting present on the walls of the fuel storage bunded area at the Vestas Satellite</p>	Replacement of damage plastic sheeting when required.	Vestas	Amber

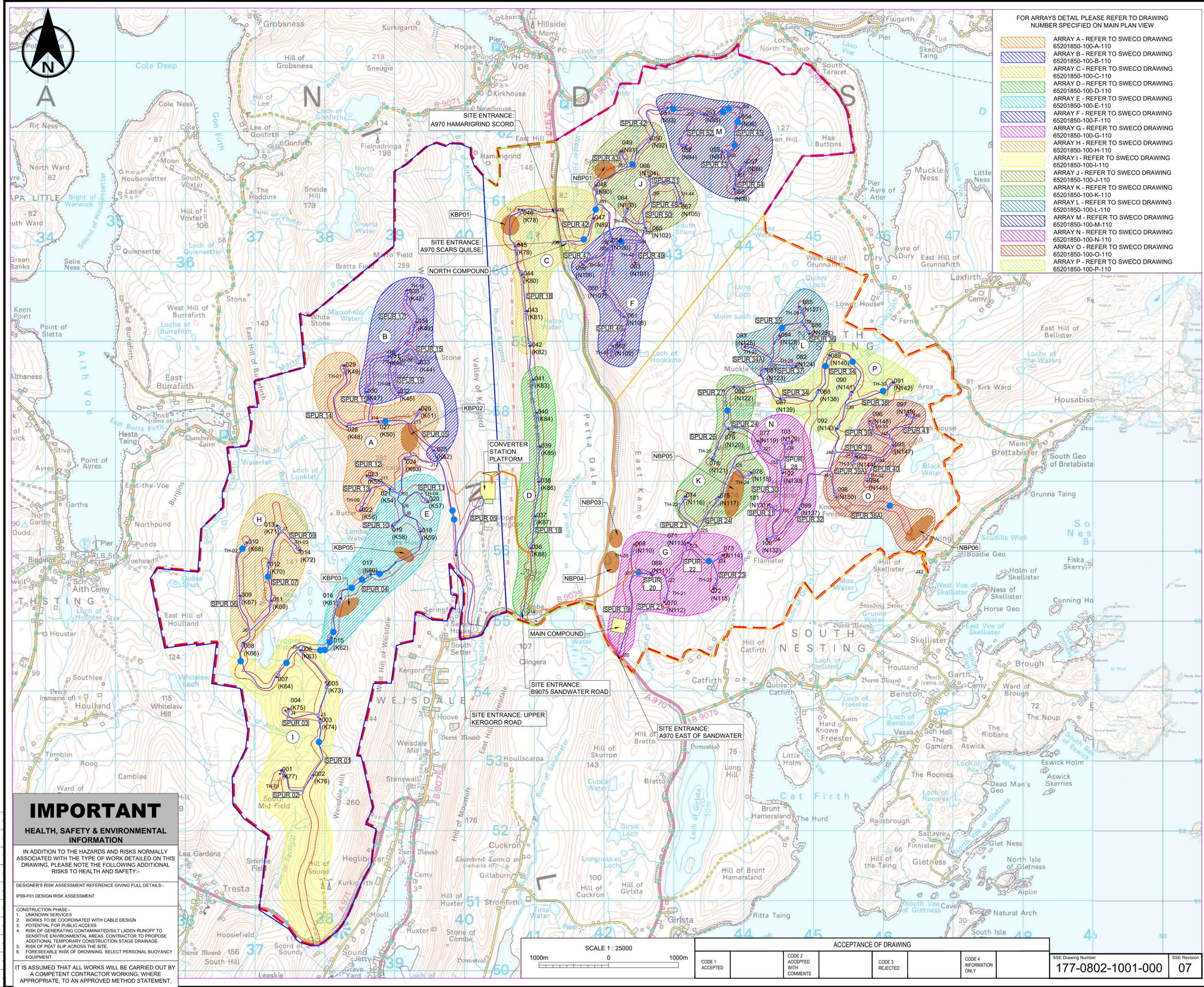
Issue	Auditor Comments	Required Action	Action Owner	Status
	<p>compound to be damaged. A direct breach in the floor of the refuelling area was observed.</p> <p>During the September 2023 audit, the PMO observed that effort has been made to patch the damage. However, direct breach to the floor of the refuelling area can still be observed.</p> <p>During the October 2023 audit, further works were being conducted to repair the breach. This however did not result in any spill or environmental incidents.</p> <p>During the November 2023 audit, the bund was observed to have been successfully repaired and in good condition.</p>	<p>Good maintenance and care of plastic sheeting during operations required.</p> <p>SSE to conduct audit of the compound to ensure good condition of bund is maintained.</p>		
<p>Pollution Prevention and Waste (e.g. use of spill kits and littering)</p>	<p>The generators for the turbine commissioning works observed during the november PMO audit visit had plant nappies.</p> <p>All generators to be of hybrid type by next PMO audit visit.</p>	<p>Plant nappies to be installed where absent.</p>	<p>VEWF</p>	<p>Amber</p>
<p>Noise, Dust, and Air Quality</p>	<p>No complaints regarding dust had been received by SIC during the audit period.</p>	<p>Continued monitoring of dust conditions and implementation of control measures as needed; and ongoing liaison as required with other construction operators.</p>	<p>N/A</p>	<p>Green</p>
<p>Resources, Waste and Transport.</p>	<p>The project manages wastes through a Site Waste Management Plan, the plan identifies the contractors transferring the waste and the</p>	<p>No action required.</p>	<p>N/A</p>	<p>Green</p>

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Issue	Auditor Comments	Required Action	Action Owner	Status
	disposal sites. Documents are retained in line with regulatory requirements.			
Pre-Planning Works (e.g. site set-up and general management, access tracks, community liaison).	Evidence of pre-planning works observed and reported during the audit included archaeological watching brief, nesting bird surveys, community liaison. Potential constraints are identified and suitable mitigation measures implemented to prevent negative impacts.	No action required.	N/A	Green

APPENDIX 1

SITE LOCATION PLAN, PEAT RESTORATION PLAN AND PHOTOLOG



FOR ARRAYS DETAIL PLEASE REFER TO DRAWING NUMBER SPECIFIED ON MAIN PLAN VIEW

- ARRAY A - REFER TO SWECO DRAWING 65201850-100-A-110
- ARRAY B - REFER TO SWECO DRAWING 65201850-100-B-110
- ARRAY C - REFER TO SWECO DRAWING 65201850-100-C-110
- ARRAY D - REFER TO SWECO DRAWING 65201850-100-D-110
- ARRAY E - REFER TO SWECO DRAWING 65201850-100-E-110
- ARRAY F - REFER TO SWECO DRAWING 65201850-100-F-110
- ARRAY G - REFER TO SWECO DRAWING 65201850-100-G-110
- ARRAY H - REFER TO SWECO DRAWING 65201850-100-H-110
- ARRAY I - REFER TO SWECO DRAWING 65201850-100-I-110
- ARRAY J - REFER TO SWECO DRAWING 65201850-100-J-110
- ARRAY K - REFER TO SWECO DRAWING 65201850-100-K-110
- ARRAY L - REFER TO SWECO DRAWING 65201850-100-L-110
- ARRAY M - REFER TO SWECO DRAWING 65201850-100-M-110
- ARRAY N - REFER TO SWECO DRAWING 65201850-100-N-110
- ARRAY O - REFER TO SWECO DRAWING 65201850-100-O-110
- ARRAY P - REFER TO SWECO DRAWING 65201850-100-P-110

NOTES

1. CONTAINS ORDNANCE SURVEY DATA RECEIVED FROM SSE ON 27.08.2020.
2. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES AOD UNLESS SHOWN OTHERWISE.
3. TURBINE LOCATIONS BASED ON "VIKING MICROSITING TRACKER" DATED 24.07.2020.
4. ACCESS TRACKS AND HARDSTANDINGS BASED ON SSE LAYOUT: "S15056-TG-XX-XX-M3-C-1000_ALL_SPURS_HARDSTANDS-P01". ARRAY LAYOUTS SUBJECT TO VALUE ENGINEERING DESIGN BY RJM.
5. FOR CULVERT CATCHMENT ASSESSMENT REFER TO SWECO DRAWING 65201850-100-101.

LEGEND

- SITE PLANNING BOUNDARY
- PROPOSED NEW TRACK
- PROPOSED CONSTRUCTION COMPOUND
- PROPOSED COMPOUND
- PROPOSED BATCHING PLANT
- BORROW PIT SEARCH AREA
- PROPOSED WTG LOCATION
- AREA 1 - WEST (KERGORD)
- AREA 2 - RIDGE (KERGORD CENTRAL)
- AREA 3 - EAST (NESTING SOUTH)
- AREA 4 - NORTH (NESTING NORTH)
- PROPOSED WATERCOURSE CROSSING
- 50m MICROSITING
- SANDWATER ROAD
- CROSS COUNTRY CABLE ROUTES
- ARRAY GROUPS

Rev.	Date	Amendment Details	Drawn	Chk'd	App'd
05	16.01.23	FOR CONSTRUCTION SSE REV07	AF	RE	RY
04	27.01.22	FOR CONSTRUCTION SSE REV06	BH	RP	CM
03	07.07.21	FOR CONSTRUCTION SSE REV05	BH	RP	KS
02	08.06.21	FOR CONSTRUCTION SSE REV04	BH	RP	KS
01	23.02.21	FOR CONSTRUCTION SSE REV03	BH	RP	KS

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Client: **FOR CONSTRUCTION**

Project Title: **VIKING WIND FARM**

Drawing Title: **SITE GENERAL ARRANGEMENT**

Scale	Designed	Drawn	Checked	Approved
Original Size	Date	Date	Date	Date
A1	11.09.20	11.09.20	17.09.20	17.09.20
Drawing Number:	65201850-100-100			Revision: 05

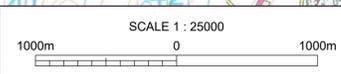
IMPORTANT HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING ADDITIONAL RISKS TO HEALTH AND SAFETY:-

DESIGNER'S RISK ASSESSMENT REFERENCE GIVING FULL DETAILS:-
IP09-F01 DESIGN RISK ASSESSMENT

CONSTRUCTION PHASE:-
1. UNKNOWN SERVICES
2. WORKS TO BE COORDINATED WITH CABLE DESIGN
3. POTENTIAL FOR PUBLIC ACCESS
4. RISK OF GENERATING CONTAMINATED/SILT LADEN RUNOFF TO SENSITIVE ENVIRONMENTAL AREAS. CONTRACTOR TO PROPOSE ADDITIONAL TEMPORARY CONSTRUCTION STAGE DRAINAGE.
5. RISK OF PEAT SLIP ACROSS THE SITE.
6. FORESEEABLE RISK OF DROWNING. SELECT PERSONAL BUOYANCY EQUIPMENT.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

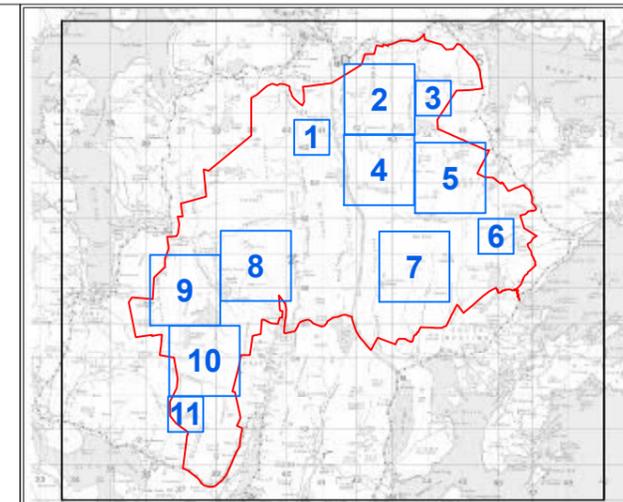
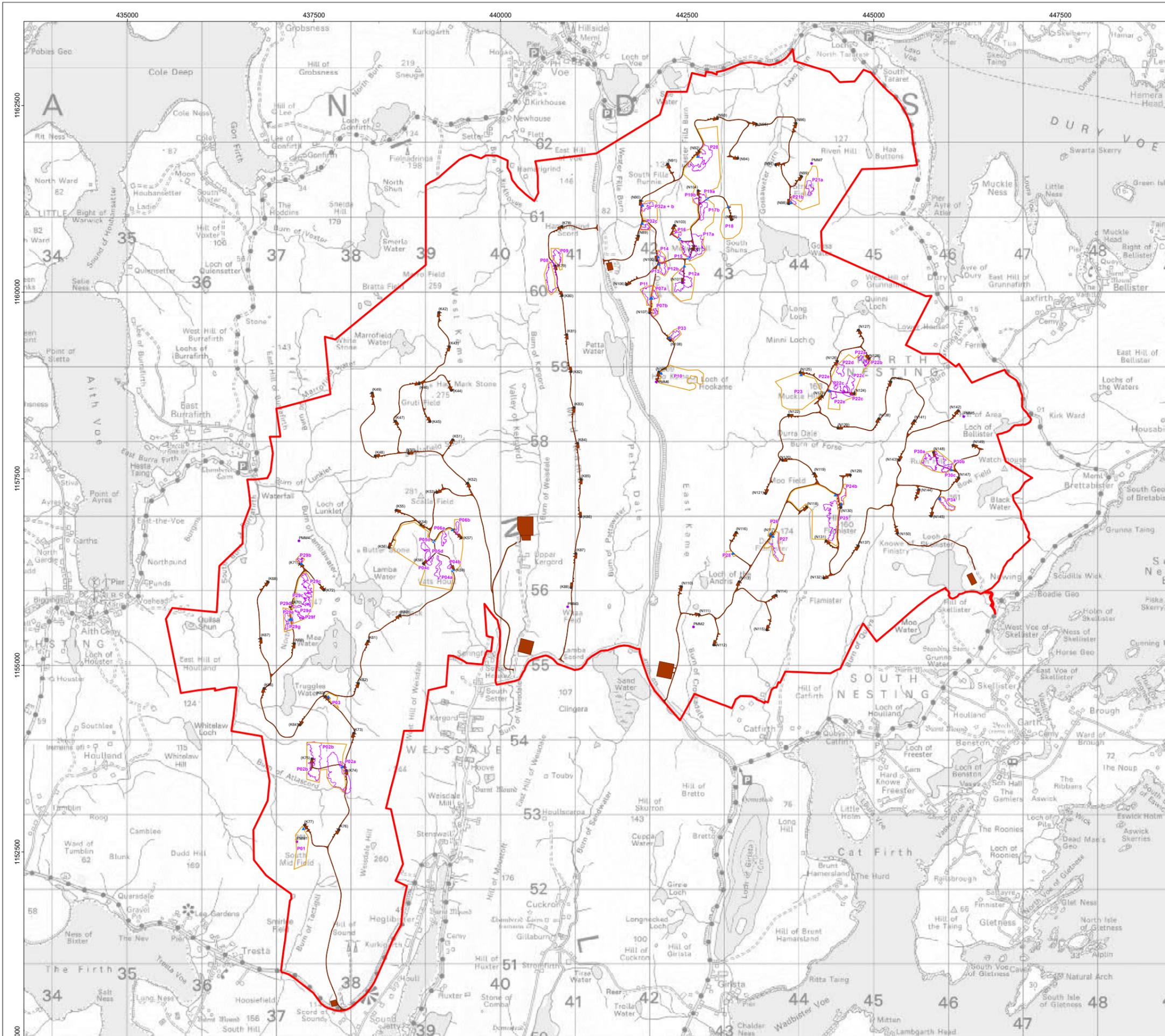


ACCEPTANCE OF DRAWING

CODE 1	CODE 2	CODE 3	CODE 4
ACCEPTED	ACCEPTED WITH COMMENTS	REJECTED	INFORMATION ONLY

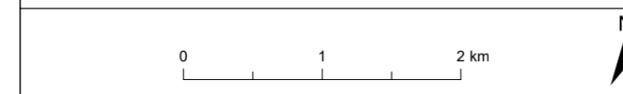
SSE Drawing Number: 177-0802-1001-000

SSE Revision: 07



- Legend**
- Site Boundary
 - Turbine
 - Permanent Met Mast
 - Indicative Cattle Grid Location
 - Indicative Gate Location
 - Fencing
 - HMP Phase 1 - Areas of Peat Deposition and Profiling
 - Microsited Site Layout

Note 1: Phase 1 areas beyond the fence line are to allow cable laying and access.
Note 2: Areas within the fence line not noted as HMP Phase 1 will be subject to Phase 2 Technique considerations.



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 Project Name

VIKING ENERGY WIND FARM

Drawing Title PEAT RESTORATION

Rev	Date	Remarks	Drwn	Chkd
R0	23/02/2021	First Issue	TD	EM
R1	12/01/2022	Revised HMP	AM	DM
R2	04/02/2022	Fencing boundary changes, gates and cattle grids added	AM	DM

Drawing Number
LN000046-VIK-ENV-SK-0040-01

Scale 1:18,000	Plot Size A0	Datum OSGB36	Projection BNG
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Photo 1. Hydroseeding on backfilled cable trenches north of T021



Photo 2. Drain along the track off KBP02

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023



Photo 3. Repaired refuelling bund in KBP05



Photo 4. Repaired refuelling bund in KBP05

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023



Photo 5. Reprofiling at the back of KBP05



Photo 6. Backfilled cable trench along the cross-country route from Upper Kergord to the substation

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023

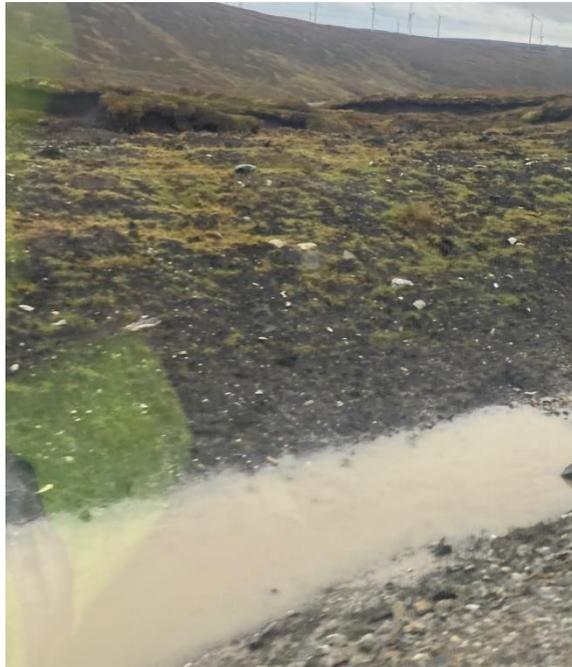


Photo 7. Silty water in drains along MKR track, off T046



Photo 8. Mud on the MKR track, off T042

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023



Photo 9. Litter observed in settlement pond west of the MKR track between T038 and T037



Photo 10. On-going planned culvert replacement works at Sandwater track

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023



Photo 11. Completed backfilling of the second culvert replacement at Sandwater track



Photo 12. Hydroseeding on reinstated cable trench at North Nesting

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023



Photo 13. Completed backfilling and reprofiling at NBP01



Photo 14. Completed backfilling and reprofiling at NBP01

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023



Photo 15. Drains along the track at North Nesting, 100m from the access gate



Photo 16. On going works at NBP05

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023



Photo 17. On going works at NBP05

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 27 th November 2023