

Intended for

Viking Energy Wind Farm LLP

Date

January 2022

Project Number

1620009158

**VIKING ENERGY WIND
FARM
PLANNING
MONITORING OFFICER
AUDIT REPORT 015:
16TH DECEMBER 2021 TO
21ST JANUARY 2022**

**VIKING ENERGY WIND FARM
PLANNING MONITORING OFFICER AUDIT REPORT
015: 16TH DECEMBER 2021 TO 21ST JANUARY 2022**

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CONTENTS

1.	AUDIT DETAILS	1
1.1	Audit Details	1
1.2	Distribution	1
1.3	Terms of Reference	1
1.4	Role of the Planning Monitoring Officer	2
1.5	General Limitations and Reliance	3
2.	INTRODUCTION	4
2.1	Objectives of Audit	4
2.2	Scope of Audit	4
2.3	Site Personnel	4
3.	SITE SETTING, RECORDS AND OBSERVATIONS	5
3.1	Kergord	5
3.2	Sandwater Track	5
3.3	Mid Kame Ridge	6
3.4	North Compound and North Nesting	6
3.5	Main Compound	6
3.6	Nesting	7
3.7	Substation	7
3.8	Communication with Clerks of Work	7
3.9	Scope of next audit	8
4.	AUDIT FINDINGS AND REQUIRED ACTIONS	9

1. AUDIT DETAILS

1.1 Audit Details

Audit Number	PMO 015
Location	Kergord Sandwater Road Mid Kame Ridge North Compound and North Nesting Main Construction Compound Nesting Substation
Weather Conditions	Windy, mild, dry with snow (1°C).
Audit Date	19 th January 2022
Audit Period	16 th December 2021 to 21 st January 2022
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
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 24th May 2019.

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

- Construction of the Kergord Access Track¹ (consented on 29th 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 26th 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 9th 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 Audits 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 SIC regarding public concerns or complaints received during the audit period.
- 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, SSE Renewables Environmental Site Manager, RJM Design Management Engineer and SIC Planning Enforcement Officer undertaken on 19th January 2022 which included the following locations:
 - Kergord;
 - Sandwater Road;
 - Mid Kame Ridge;
 - North Compound and North Nesting;
 - Main Compound;
 - Nesting; and
 - Substation.
- Discussions were held with the Geotechnical Clerk of Works (GCoW), Environmental Clerk of Works (ECoW) and Archaeological Clerk of Works (ACoW).

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
SSE Renewables	Environmental Advisor
RJ McLeod	Design Engineer
Tony Gee and Partners	Geotechnical Clerk of Works
MBEC	Environmental Clerk of Works
Headland Archaeology	Archaeological Clerk of Works

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.

3.1 Kergord

3.1.1 Site Setting and Activities

Access to the Kergord Arrays is taken via the Kergord Access Track (KAT), which was accessed from the Sandwater track along the southern boundary of the central area of the development.

Activities in this area during the audit included progression of access tracks and peat restoration areas, rock extraction at borrow pits and formation of crane pad hardstanding areas.

3.1.2 Observations

The construction of tracks and bases has continued across the arrays with tracks to K49, K71 and K72 remaining to be completed. The terrain at K49 is steep therefore a slower and more cautious approach has been undertaken to reduce risks. A cut off drain has been installed uphill of tracks towards K49 to provide preventative mitigation as excavation continues. The K50 turbine base has been re-excavated (Photo 1) to address concerns raised regarding drainage. Works will continue once sign off from all parties have been received.

Contractors responsible for steelwork and concrete pouring were still on holiday at the time of the site visit, hence no observations or progress has been made. Some of the completed turbine bases have now been backfilled (example Photo 2).

There was no work at KBP02 on the day of visit. Rock extraction at KBP03 and KBP05 is still ongoing. A drilling rig was in operation at KBP05 (Photo 3) in preparation for blasting the day after the visit. Turbine base work at K61 has been delayed as the turbine base is acting as a surface water settlement pond for run off from KBP03 (Photo 4). This is recognised as being evidence of a proactive approach to surface water management.

The silty water run off incident of 14th December (Report No. 14) to Maa Water was identified as a result of silty water by-passing the mitigation measures in heavy rain by utilising sub-terrestrial peat pipes to discharge to the loch. Site turbidity readings did not indicate concentrations to be above reportable threshold values, however it was recognised that additional control measures were required. As such the contractor has added to and improved drainage and silt mitigation measures in the areas of concern. There has been no repeat of this incident.

3.2 Sandwater Track

3.2.1 Site Setting and Activities

A track has been constructed at Sandwater, located at the southern limit of the central site area, which provides access to the Kergord and Mid Kame Ridge wind farm areas for all construction traffic. The new track is located adjacent to the existing Sandwater Road (B7095), which remains operational for public traffic.

The Sandwater Loch is located directly to the south of the site boundary. Sandwater Loch is designated as a Site of Special Scientific Interest (SSSI)⁵, notified for 'Open Water Transition Fen' and 'Mesotrophic Loch' habitats.

⁵ As notified under the Nature Conservation (Scotland) Act 2004

3.2.2 Observations

During the site inspection, peat was being reinstated on the road verges with reinstatement of turves also ongoing. The ducts design for Pettawater bridge is now in place. Concrete slab for the ducts are to be installed in the coming month.

As a safety measure, white lines are being painted on all active site junction adjacent to public roads.

3.3 Mid Kame Ridge

3.3.1 Site Setting and Activities

The Mid Kame Ridge (MKR) is accessed from the Sandwater track and stretches northwards to Hamarigrind Scord.

3.3.2 Observations

The reinstatement of peat and turves along the track had been completed to a high standard. Further seeding to reinstate vegetation has been put on hold due to the time of the year. Backfilling of poured bases along Mid Kame Ridge has all been completed.

3.4 North Compound and North Nesting

3.4.1 Site Setting and Activities

The North Compound and northern Nesting turbine arrays are located towards the northern limit of the site on the eastern side of the A970. Track and bridge construction, peat restoration, reinstatement and crane pad hardstanding formation was also being undertaken during the audit. At the North Compound batching plant 1 and 2 are in place.

3.4.2 Observations

Construction had extended towards both N99 and N98 in the northeast and N109 in the south. Tracks within North Nesting are now all completed with turbine base and hardstanding excavation still to be completed. Excavation at N90 and N91 turbine bases was observed during the site visit (Photo 5). Ground Investigation has been scheduled at N90 turbine base at the end of January before further work can be completed.

Track side ditches are being installed along constructed tracks. The check dams appear to be effective in slowing down the water and allowing sediments to settle in controlled areas. An example of a track side ditch was observed in more detail near N100 (Photo 6).

Active peat restoration was observed at P12 (near N101) and P21 (north of N99) on the day of visit.

3.5 Main Compound

3.5.1 Site Setting and Activities

The Main Compound is located at the southern extent of the development 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 damaged barrel of oil noted in last report (014) has been removed and no other incidents have been observed or reported.

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 progression of access tracks, bridges and peat restoration areas, rock extraction at borrow pits and formation of crane pad hardstanding areas.

3.6.2 Observations

Tracks within Nesting are now all completed with turbine base and hardstanding excavation still to be completed. Additional bunding has been built between the N116 blade fingers to improve stability (Photo 7).

At watercrossing 19, the permanent bridge is now operational (Photo 8) and the temporary bridge decommissioned. During the visit, reinstatement work along the banks where the temporary bridge used to sit were observed. Reinstatement works included building a temporary pond for water run off from the track uphill of the watercourse (Photo 9).

Following the track completion, new drainage has been installed between N132 and N137. To contain the water overflowing from the tracks, additional measures (over and above the typical track side ditch and check dams) have been put in place on Spur 29, Junction 36. Water from the culvert pipe will flow into a settlement pond which is then extracted by a water pump with reactor (Photo 10). The reactor accelerates sediment separation and usage has been approved by SEPA. Water from the water pump reactor will then be released into another settlement pond and then multiple layers of silt fencing (Photo 11).

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. Activities in this area included excavation, foundation work for buildings within the Substation and construction of building frame of the main building.

3.7.2 Observations

Installation of the steel frame of three buildings (the main substation building, GT1 and GT3) within the substation area has begun. Foundation work for all of the remaining buildings (GT2, GT4 and Welfare Building) is ongoing (Photo 12). On the day of visit, concrete was to be poured into one of the building foundations.

During the visit, a full waste skip was being removed, to be replaced by new empty skip. The fuel storage area was observed to be in good condition with no evidence of leaks or staining observed in the vicinity of the store and spill kits and fire extinguisher available.

3.8 Communication with 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. A discussion was held between the PMO and GCoW before the site visit, on the 14th January 2022.

The GCoW described the ongoing monitoring work across the site. This has included monitoring of the general construction works, monitoring peat restoration areas and providing advice on peat handling. The monitoring did not identify any events resulting in environmental incidents. There is ongoing supervision throughout the site with the GCoW working with the Principal Contractor to implement preventative measures.

The GCoW noted dialogue is ongoing with the Client and Principal Contractor regarding the reinstatement of turbine blade fingers.

3.8.2 ECoW

Condition 19 of the planning consent requires the appointment of an Ecological Clerk of Works to ensure protection of the natural heritage of the area. A discussion was held between the PMO and ECoW before the site visit, on the 18th January 2022.

The ECoW continues to work with the Principal Contractor to identify and implement mitigation measures throughout different stages of construction. The ECoW noted the Principal Contractor has responded positively to recommendations made and have identified concrete timeline to implement mitigation measures. The ECoW reported no other incidents with ecological impacts.

The ECoW has continued with regular checks across the project site. The ECoW has also noted ongoing dialogue regarding the status of turbine blade fingers.

3.8.3 ACoW

Condition 29 of the planning consent requires the appointment of an Archaeological Clerk of Works to ensure archaeological features are protected and recorded during the development. The ACoW communicated the ongoing works to the PMO on the 20th January 2022.

The ACoW described the ongoing and completed monitoring works across the site. In North Nesting monitoring is ongoing at Spur 47 (N106 turbine base), Spur 46 and P33. ACoW noted dialogue has taken place with the Principal Contractor regarding the exclusion zone at NBP01 and are satisfied that best practice has been followed.

In the Nesting Array, monitoring is ongoing along proposed overhead line from the main road junction to the main compound. Two heritage assets have been identified within the field and have been marked and fenced off to be avoided.

In the Kergord array there are no ongoing monitoring works. Walkover survey of the revised overhead line between Mid Kame, Array A and Kergord substation is scheduled for the coming month.

The ACoW has continued with daily checks across the project site.

3.9 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. 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 and Nesting.
- 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 formation of peat restoration areas.
- Update on the construction of borrow pits.
- Update on the construction of the VEWf Substation.
- Updates from the ACoW, ECoW and GCoW teams.

4. AUDIT FINDINGS AND REQUIRED ACTIONS

Issue	Auditor Comments	Required Action	Action Owner	Status
<p>Materials Storage and Handling (e.g. oil/fuel storage and peat/mineral soil storage and handling).</p>	<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>	<p>No action required</p>	<p>Principal Contractor</p>	<p>Green</p>
<p>Natural and Built Environment (e.g. ecology, biosecurity, protected sites, archaeology and site restoration).</p>	<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>	<p>No action required.</p>	<p>N/A</p>	<p>Green</p>

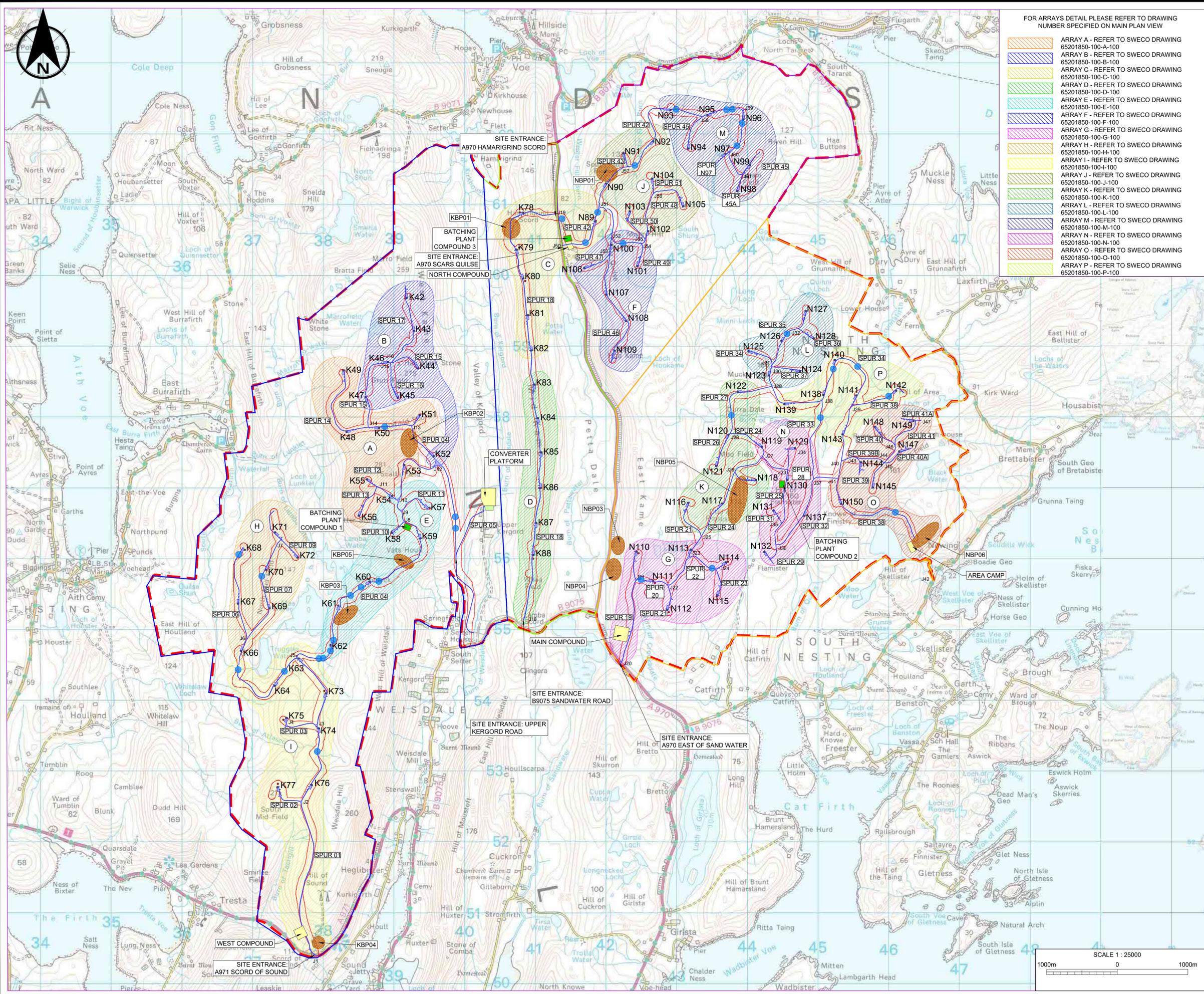
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Issue	Auditor Comments	Required Action	Action Owner	Status
<p>Pollution Prevention and Response (e.g. use of spill kits, silt control, cement/concrete, water resources).</p>	<p>The project has received authorisation to abstract water from eight locations from SEPA. The authorisation allows the water to be used for dust suppression. 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>During the audit the PMO observed spill kits to be well stocked and readily available in areas where liquids are stored.</p> <p>The project continues to improve the pollution prevention measures with additional measures installed in high risk area. 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>	<p>No action required.</p>	<p>N/A</p>	<p>Green</p>
<p>Noise, Dust, and Air Quality</p>	<p>No dust complaints had been received during the reporting period. Given the wet weather, dust suppression measures have not been required but effective measures are in place if required.</p>	<p>No additional actions required other than 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 disposal sites. Documents are retained in line with regulatory requirements.</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
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 pre-construction surveys, nesting bird surveys, and micro-siting of access tracks to account for constraints. Potential constraints are identified and suitable mitigation measures implemented to prevent negative impacts.	No action required.	N/A	Green

APPENDIX 1 SITE LOCATION 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-100
 - ARRAY B - REFER TO SWECO DRAWING 65201850-100-B-100
 - ARRAY C - REFER TO SWECO DRAWING 65201850-100-C-100
 - ARRAY D - REFER TO SWECO DRAWING 65201850-100-D-100
 - ARRAY E - REFER TO SWECO DRAWING 65201850-100-E-100
 - ARRAY F - REFER TO SWECO DRAWING 65201850-100-F-100
 - ARRAY G - REFER TO SWECO DRAWING 65201850-100-G-100
 - ARRAY H - REFER TO SWECO DRAWING 65201850-100-H-100
 - ARRAY I - REFER TO SWECO DRAWING 65201850-100-I-100
 - ARRAY J - REFER TO SWECO DRAWING 65201850-100-J-100
 - ARRAY K - REFER TO SWECO DRAWING 65201850-100-K-100
 - ARRAY L - REFER TO SWECO DRAWING 65201850-100-L-100
 - ARRAY M - REFER TO SWECO DRAWING 65201850-100-M-100
 - ARRAY N - REFER TO SWECO DRAWING 65201850-100-N-100
 - ARRAY O - REFER TO SWECO DRAWING 65201850-100-O-100
 - ARRAY P - REFER TO SWECO DRAWING 65201850-100-P-100

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 SHOWN ON: "VIKING MICROSITING TRACKER" DATED 24.07.2020.
4. ACCESS TRACKS AND HARDSTANDINGS BASED ON SSE LAYOUT: "S115056-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.
6. FOR CONSTRAINTS PLAN REFER TO SWECO DRAWING 65201850-100-111.

LEGEND

- SITE PLANNING BOUNDARY
- PROPOSED NEW TRACK
- PROPOSED SUBSTATION 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
- SANDY WATER ROAD

0A	14.10.20	MINOR UPDATES	PL	RP	KS
0	17.09.20	FOR APPROVAL	BH	RP	KS
Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

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FOR APPROVAL

VIKING WIND FARM

SITE GENERAL ARRANGEMENT
(177-0802-1001-000-00)

Scale	1:25000	Designed	RV	Drawn	RV	Checked	RP	Approved	KS	
Original Size	A1	Date	11.09.20	Date	11.09.20	Date	17.09.20	Date	17.09.20	
Drawing Number	65201850-100-100								Revision	0A



Photo 1. K50 turbine foundation being re-excavated, awaiting approval on drainage system



Photo 2. View of backfilled base K48 and additional bunding behind base

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 19 th January 2022



Photo 3. View of drilling rig in operation at KBP05 in preparation for blasting



Photo 4. View of K61 turbine base and KBP03

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 19 th January 2022



Photo 5. View of works being done at N90 turbine base



Photo 6. Example of roadside drainage system near N100 with check dams

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 19 th January 2022



Photo 7. View from N116 southern blade finger onto northern blade finger and additional bunding in between



Photo 8. View of permanent bridge at WC19

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 19 th January 2022



Photo 9. View of landscaping work by WC19 where temporary bridge used to be



Photo 10. View of drainage system at Junction 36: Culvert pipe, water pump with reactor and settlement pond

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 19 th January 2022



Photo 11. View of drainage system at Junction 36: Settlement pond and silt traps



Photo 12. View of substation under construction

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 19 th January 2022

Title: Photographic Log	Client: Viking Energy Wind Farm
Site: Viking Energy Wind Farm	Date: 19 th January 2022