

LOCHLUICHART WIND FARM EXTENSION II APPENDIX 13.D

PEAT SLIDE RISK ASSESSMENT

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Prepared By:

Arcus Consultancy Services

7th Floor 144 West George Street Glasgow G2 5JF

T +44 (0)141 847 0340 | E info@arcusconsulting.co.uk

www.arcusconsulting.co.uk

Registered in England & Wales No. 5644976



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1 INTRODUCTION

1.1 Background

Arcus Consultancy Services were commissioned by Infinergy to carry out a Peat Slide Risk Assessment (PSRA) for the proposed Lochluichart Wind Farm Extension located between Loch Glascarnoch and Lochluichart, approximately 18 Kilometres (km) north-west of Dingwall. The extension is located on an area of mainly grazed upland heath. The site is centred at National Grid Reference (NGR) E232590, N867900.

The Proposed Extension consists of a development of an additional 9 turbines, each with a minimum generating capacity of 4MW, giving an installed capacity of 36MW. The proposed site layout is shown on Figure 1 appended with this report.

1.2 Summary of conditions

A desk study of the site based on available geological and soils mapping indicated that peat was possible along the north-east site boundary within localised areas in the centre of the site. All other soil cover in the area is thin or absent of peat.

Onsite intrusive investigations confirmed that deposits across the site were generally thin, but consistent with the desk-based assessment, deeper deposits existed within the northwest proportion of the site. Additionally, localised pockets were noted in the central site. Due to the proximity to potentially sensitive receptors, the undertaking of a PSRA was considered necessary.

The following receptors were identified as part of the assessment and verified by site visit:

- Proposed infrastructure including, tracks, turbines, compounds and borrow pits;
- Existing tracks and infrastructure;
- Allt na Beinne Leithe Bige and associated tributaries;
- · Caothan Ban and associated tributaries; and
- Allt Giubhas Mor and associated tributaries:

1.3 Assessment Approach

The PSRA has been carried out in accordance with the Energy Consents Unit, Scottish Government (SG) guidance of 2017 titled 'Peat Landslide Hazard and Risk Assessments - Best Practice Guide for Proposed Electricity Generation Developments', Scottish Government.

In June 2014, the new 'Scottish Planning Policy'² (SPP) and 'National Planning Framework (NPF3)'³ were published. In relation to peat and the assessment of effects on resource, NPF3 references Scottish Natural Heritage 'Scotland's National Peatland Plan'⁴. These policy, framework and guidance documents are therefore also considered in this PSRA.

- The PSRA undertaken is based on;
- Desk based assessment;
- Site walkover;
- An initial Phase 1 peat probing scheme;
- A second Phase of probing comprising infrastructure specific probing; and
- A hazard and risk ranking assessment.

¹ https://www.gov.scot/Publications/2017/04/8868

² http://www.scotland.gov.uk/Topics/Built-Environment/planning/Policy

http://scotland.gov.uk/Resource/0045/00453683.pdf

⁴ https://www.nature.scot/climate-change/taking-action/carbon-management/restoring-scotlands-peatlands/scotlands-national-peatland-plan



The area of the extension development subject to assessment was determined by the emerging development layout which considered both anticipated peat deposits as well as other physical and environmental constraints.



2 METHODOLOGY

2.1 Site Reconnaissance and Peat Probing

This PSRA has been undertaken in accordance with the SG guidance and in parallel with the development design process.

Arcus Consultancy Services Ltd, were appointed to carry out the Stage 1 and 2 peat probing for the Extension II (development), undertaken over two distinct periods. Phase 1 probing occurred in April 2017 before supplementary Phase 2 probing re-commenced in June 2018. These visits comprised probing on 50 meter (m) centres along the proposed tracks at Lochluichart Wind Farm. Probes 25m perpendicular to the track centre line were carried out on both sides for micro-siting purposes.

2.2 Development of Hazard Rank

The early stages of the PSRA including the desk study, site visit and peat probing were carried out in parallel with the assessment of wider constraints and the development of the windfarm extension layout. Following identification of peat depths within the site, the assessment was carried out to determine the potential effects on the peat resource of construction activities which would include:

- Construction of tracks:
- Excavation of turbine bases;
- Foundation construction;
- Construction of hardstanding; and
- The formation of borrow pits.

An assessment of the peat probing data and a review against desk study information was undertaken and a hazard rank was calculated for different zones across the site reflecting risk of peat instability / constraint to construction.

Where practical, the development layout was progressed to avoid areas of a risk score above 'low'. Where this has not been achieved, areas effected have been discussed in both the EIA as having significant effect, with relative mitigation measures proposed to reduce this, and recorded on a risk register which sets out specific mitigation measures which are considered necessary to reduce the risk of inducing instability.



3 GUIDANCE AND ASSESSMENT APPROACH

3.1 General Guidance on Peat Failure

The SG guidance divides peat instability into two categories, 'peat slides' and 'bog bursts'. The guidance states that peat slides have a greater risk of occurrence in areas where:

- Peat is encountered at or near to ground surface level;
- The thicknesses are recorded in the region of 2.0m (above which, in general terms, peat instability would increase with peat thickness); and
- The slope gradients are steep (between 5° and 15°).

Bog bursts are considered to have a greater risk of occurrence in areas where:

- Peat depth is greater than 1.5m; and
- Slope gradients are shallow (between 2° and 10°).

It should be noted however that peat instability events, although uncommon, can occur out with these limits. Reports of bog bursts are generally restricted to the Republic and Northern Ireland.

Preparatory factors which effect the stability of peat slopes in the short to medium-term include:

- Loss of surface vegetation (deforestation);
- Changes in sub-surface hydrology;
- Increase in the mass of peat through accumulation, increase in water content and growth of tree planting or
- Reduction in shear strength of peat or substrate due to chemical or physical weathering, progressive creep and tension cracking.

Triggering factors which can have immediate effect on peat stability and act on susceptible slopes include:

- Intensive rainfall or snow melt causing pressures along existing or potential peat/substrate interfaces;
- Snow melt:
- Alterations to drainage patterns, both surface and sub-surface:
- Peat extraction at the toe of the slope reducing the support of the upslope material;
- Peat loading (commonly due to stockpiling) causing an increase in shear stress; and
- Earthquakes or rapid ground accelerations such as blasting or mechanical movement.

Consideration of peat stability should form an integral part of the design of a windfarm development. While peat does not wholly provide a development constraint, areas of deep peat or peat deposits on steep slope should be either avoided through design and micro-siting or mitigation measures should be designed to avoid potential instability and movement.



4 DESK STUDY AND SITE VISIT SURVEY

4.1 Methodology

The purpose of the desk study and site visit was to gain a thorough understanding of site conditions including topography, geology, existing peat instability and hydrology. The outcome of this stage of the study was the determination of the areas requiring detailed intrusive survey (by peat probing) and ultimately provide data for the assessment of peat slide hazard and risk.

4.2 Desk Study Approach

The following sources of information were used as part of the desk study investigations:

- Scottish Government (SG) 'Peat Landslide Hazard and Risk Assessments' December 2017;
- Scottish Government, Scottish Natural Heritage, SEPA (2017) Peatland Survey, Guidance on Developments on Peatland;
- The Scottish Government Scotland's Third National Planning Framework, 2014;
- The Scottish Government Scottish Planning Policy, 2014;
- Soil Survey of Scotland 'MacAulay Institute for Soil Research' 1984;
- Soil Survey of Scotland 'Scottish Peat Surveys' 1964;
- British Geological Survey Online GeoIndex;
- Ordnance Survey (OS) topographical information;
- Assessments by other EIA specialists (specifically hydrology and ecology for data on sensitive receptors); and
- Aerial and Satellite photography.

Following a review of these sources a site visit was undertaken, the purpose of which was to verify the outcomes of the desk study and identify:

- The general condition of peat deposits;
- Evidence of any previous peat instability;
- The presence of low lying wet/peat lands;
- Watercourses and potential other receptors; and
- Potential borrow pit locations.

4.3 Topography

The development was defined as two distinct areas, one to the east of the existing windfarm spine road and one to the west. The western site area was open hillside, locally steeply sloping, with a flatter low-lying area in the valley between Meallan Teth and Beinn Liath Bheag, varying from 380m AOD to almost 500m AOD. The eastern site area was generally flatter and sparsely forested, varying in levels between 330m AOD and 360m AOD.

Localised peat hagging was noted in the vicinity of Allt Giubhais Mor in the east and in the flatter areas in the vicinity of Caochan Ban in the west. Photographs from the site visits and peat probing are included in Appendix C.

4.3.1 Geology

4.3.1.1 Superficial Soils

Published geological mapping of superficial soils indicates the site to contain peat in the central and north-west site area. Till deposits typically comprising gravel, sand and silt were shown across the majority of the site. In the northern section of the site area, occasional peat deposits were shown.



4.3.1.2 Bedrock Geology

Published bedrock geology mapping indicates the site to be underlain by Caradoc aged rocks comprising Vaich Pelite Formation - Semipelite, Garnet and pockets of Glascarnoch Psammite Formation - Psammite in the western area of the site. A geological fault was recorded within the north-west site area orientated south-west to north-east, next to Loch Luichart. No other faults were noted. No notable dykes are located within the vicinity of the site.

4.4 Hydrology and Hydrogeology

The Core Study Area lies within the catchment of Loch Glascarnoch and Glascarnoch River, approximately 1km north of the Proposed Development boundary, and is drained by a series of tributaries of Allt Giubhais Mor and Allt Giubhais Beag.

Loch Glascarnoch is classed by SEPA as having 'Moderate' overall status while the Glascarnoch River is classed as having 'Bad' overall status. The morphology of these watercourses is typical of upland watercourses with steep gradients, fast flows and rocky beds. Smaller water bodies were considered in the assessment, as described in section 1 of this report.

An initial desk-based review shows that the site is not likely to be underlain by significant quantities of peat with only pockets present on flatter topography.

4.5 Peat Probing Methodology

Following the desk study, two phases of peat probing undertaken within developable area. This involved probing with a Peat Probe at 100m centres (Phase 1) and 50m centres (Phase 2) (as recommended in Scottish Peat Surveys, 1964⁵) with depths of peat measured and locations recorded with a handheld GPS (Collector, ArcGIS).

The Phase 1 peat depths were recorded across the study area in a 100m grid pattern. The probing was carried out to refusal, and the maximum depth recorded was 3.75m. Phase 2 peat probing supplemented the first phase, in a targeted approach, probing every 50m along proposed access tracks with adjacent micro-siting probing also for micro-siting.

The area east of the existing windfarm track was generally thicker than the west, with a maximum depth of 3.75m recorded (approximately 100m north-east of the proposed T5). Phase 2 probing across the proposed infrastructure in this part of the site confirmed that peat was generally greater than 1.0m, up to 2.5m at T4 and up to 3.0m and 2.5m underlying proposed tracks between T4-T3 and T4-T5 respectively. However, thinner peat deposits, in the region of 1.0m were recorded at T2, T3 and T5.

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http://www.scotland.gov.uk/Resource/Doc/917/0120459.pdf



4.6 Peat Probe Results

During the course of the peat probing investigations, a total of 902 probes were progressed within the study area and the table below summarises the recorded thicknesses.

Table 12.5 summarises the recorded peat depths.

Table 12.5 - Peat Depth Summary

Peat Depth Range (m)	No of peat probes	Percentage of Total (%)
<0.5m (0.3m)	448 (350)	49.8 (38.8)
0.51m - 1.0m	302	33.5
1.01m - 1.5m	82	9.1
1.51m - 2.0m	39	4.3
2.01m - 2.5m	18	2.0
2.51m – 3.0m	9	1
>3.00m	3	0.3

The 'Peat Probe Locations' are shown on Figure 2 appended with this report, and details of the probe records are included in Appendix B.

Based on the peat depth data collected on site a 'Recorded Peat Depths' are shown on Figure 3.

It is apparent that from Table 1 and the Peat Depth Contour Plan that over 50% of the study area returned peat depths less than 0.5m. As anticipated from the desk study, the thickest peat deposits were generally recorded in flatter areas particularly across the eastern areas of the development where locally peat was surveyed at depths up to 3.75m. A 'Peat Depth Interpolation Map' is illustrated on Figure 4.

To assess the relationship between peat thicknesses and slope gradient, Figure 5 has been prepared showing 'Indicative Slope Gradients'. This shows that where steeper slopes exist (i.e. steeper than 1:14 or 4°), peat thicknesses were found almost always less than 0.5m and generally less than 0.3m.



5 HAZARD AND EXPOSURE ASSESSMENT

5.1 Background

A 'Hazard Ranking' system has been applied across the site based on the analysis of risk of peat slide as outlined in the Scottish Government guidance. This is applied on the principle:

Hazard Ranking = Hazard x Exposure

Where 'Hazard' represents the likelihood of any peat slide event occurring and 'Exposure' being the impact or consequences that a peat slide may have on sensitive receptors that exist on and around the study area.

5.2 Methodology

The determination of Hazard and Exposure values is based on a number of variables which impact the likelihood of a peat slide (the Hazard), and the relative importance of these variables specific to the site.

Similarly, the consequences or Exposure to receptors is dependent on variables including the particular scale of a peat slide, the distance it will travel and the sensitivity of the receptor.

In the absence of a predefined system, the approach to determining and categorising Hazard and Exposure is determined on a site by site basis. The particular system adopted for the Proposed Development PSRA assessment is outlined in the following sub sections.

5.3 Hazard Assessment

The potential for a peat slide to occur during the construction of a windfarm depends on several factors, the importance of which can vary from site to site. The factors requiring considerations would typically include:

- Peat depth;
- Slope gradient;
- Substrate material:
- Peat strength:
- Relief;
- Evidence of instability or potential instability;
- Vegetation cover; and
- Hydrology.

Of these, peat depth and slope gradient are considered to be principal factors. Without a sufficient peat depth and a prevailing slope, peat slide hazard would be negligible. For the Development, the substrate material is also considered a relevant factor in relation to slide.



5.4 Hazard Rating

When several factors may impact on the Hazard potential, a relative ranking process is applied attributing different weighting to each factor as shown below.

Table 2: Coefficients for Slope Gradients

Slope Angle (degrees)	Slope Angle Coefficients
Slope < 2°	1
2° < Slope < 4°	2
4° < Slope < 8°	4
8° < Slope < 15°	6
Slope >15°	8

Table 3: Coefficients for Peat Thickness and ground conditions

Peat Thickness	Ground Conditions Coefficients
Peaty or organic soil (<0.5m)	1
Thin Peat (0.5 – 1.5m)	2
Thick Peat (>1.5m)	3*
Slips /collapses / creep / flows	8

^{* -} Note that thicker peat generally occurs in areas of shallow gradient and records indicate that thick peat does not generally occur on the steeper gradients.

Table 4: Coefficients for Substrate

Substrate Material	Substrate Coefficients
Sand/gravel	1
Rock	1.5
Clay	2
Not proven	3
Slip material (Existing materials)	5

The Hazard Rating Coefficient for a particular location is calculated using the following equation:

Hazard Rating Coefficient = Slope Gradient x Peat Thickness x Substrate

From the Hazard Rating Coefficient, the risk to stability can be ranked as set out in Table 5.

Table 5: Hazard Rating

Hazard Rating Co-efficient	Potential Stability Risk (Pre-Mitigation)
<5	Negligible
5 to 15	Low
16 to 30	Medium
31 to 50	High
> 50	Very High



5.5 Exposure Assessment

The main Exposure receptors identified within the site and surrounding area which could potentially be affected in the event of a peat slide were existing windfarm infrastructure, watercourses and associated tributaries.

The impact of a peat slide on receptors can be assessed on a relative scale based on the potential for loss of habitat, a historical feature or disruption/danger to the public. To effectively assess the impact, the assessment of Exposure effect must also consider the distance between the hazard and the receptor, and the relative elevation between the two.

5.6 Exposure Rating

Similar to the Hazard Rating, the Exposure Ratings were determined using relative ranking process by attributing the different weighting systems to each factor as shown below:

Table 6: Coefficients for Impact Receptor

Receptor	Receptor Coefficients
Tracks/footpaths	2
Non-critical infrastructure, minor/private roads	3
Minor watercourses and tributaries, critical infrastructure (pipelines, motorways, dwellings, business properties).	6
Residential Properties/Community, Watercourses/Lochs, important habitat	8

Table 7: Coefficients for Distance from Receptor

Distance from Receptor	Distance Coefficients
> 1 km	1
100m to 1 km	2
10m to 100m	3
<10m	4

Table 8: Coefficients for Receptor Elevation

Receptor Elevation	Elevation Coefficients
< 10m	1
10m to 50m	2
50m to 100m	3
> 100m	4

The Exposure Rating Coefficient for a particular location is calculated using the following equation:

Exposure Rating Coefficient = Impact Receptor x Distance x Elevation

From the Hazard Rating Coefficient, the risk to stability is can be ranked as set out in Table 9.



Table 9: Exposure Rating

Exposure Rating Co-efficient	Potential Stability Risk (Pre Mitigation)
<10	Very Low
11 to 20	Low
21 to 30	High
31 to 50	Very High
>50	Extremely High

5.7 Rating Normalisation

In order to achieve an overall Hazard Ranking in accordance with the Scottish Government Guidance, the Hazard and Exposure Rating Coefficient derived from the coefficient tables are normalised as shown in Table 10.

Table 10: Rating Normalisation

Hazard Rating		Exposure Rating				
Current Scale	Normalised Scale	Current Scale	Normalised Scale			
< 5 Negligible	1	<10 Very Low	1			
5 to 15 Low	2	11 to 20 Low	2			
15 to 31 Medium	3	21 to 30 High	3			
31 to 50 High	4	31 to 50 Very High	4			
>50 Very high	5	>50 Extremely High	5			

The record of the Hazard Rank Assessment is included in Appendix B of this report.



6 HAZARD RANKING

Having identified the rating coefficients as defined in Section 5 of this report, it is possible to categorise areas of the site with a Hazard Ranking by multiplying the Hazard and Exposure Rating. Hazard Ranking and associated suggested actions matrix are shown in Tables 12 and 13 below:

Table 12 - Hazard Ranking and Suggested Actions

Hazard R	anking	Action Suggested in the Scottish Executive Guidance					
17-25	High	Avoid project development at these locations.					
11-16	Medium	Project should not proceed unless hazard can be avoided or mitigated at these locations, without significant environmental impact, in order to reduce hazard ranking to low or less					
5-10	Low	Project may proceed pending further investigation to refine assessment. Mitigation of hazards maybe required through micrositing or re-design at these locations.					
1-4	Negligible	Project should proceed with monitoring and mitigation of peat landslide hazards at these locations as appropriate.					

Table 13 - Hazard Ranking Matrix

d Rating	5	Low	Low	Medium	High	High	
	4	Negligible	Low	Medium	Medium	High	
	3	Negligible	Low	Low	Medium	Medium	
	2	Negligible	Negligible	Low	Low	Low	
Hazard	1	Negligible	Negligible	Negligible	Negligible	Low	
		1	2	3	4	5	
		Exposure Rating					

Receptor exposure was assessed for each of the four hazard zones using the approach in Section 5. A summary of the Hazard Ranking result for each identified area is summarised in Table 14 and is presented in Figure 6 'Hazard Ranking Zonation Plan'.



7 SLIDE RISK AND MITIGATION

7.1 General

The PSRA has shown the site to be of generally negligible or low hazard ranking, with two isolated area recorded as medium risk, which were not within areas proposed for infrastructure. Following receipt of the finalised infrastructure layout it and development specific risk register has been prepared and is provided.

Where the hazard ranking has been lowered through mitigation measures, the original ranking will remain in the overall hazard zoning plan and this should be acknowledged should there be future amendments to the infrastructure layout.

While the specific recommended mitigation in the low and medium ranked areas are proposed and are embedded in the design at EIA stage, it remains necessary for detailed design and construction of the development infrastructure to be undertaken in a competent and controlled manner.

The embedded mitigation and good practice measures are set out in Section 7.2. It should be noted that the mitigation measures defined are not exclusive and other forms of mitigation may well be required and should be developed by designers and implemented during construction of the scheme.

Table 14 - Risk Register

Hazard /	Area and ucture	Unmitigated F	lazard	Mitigated Hazard			
Hazard Area	Infrastructure Affected	Ranking	Key Aspects	Specific Actions	Ranking		
Н1	Т9	Low.	Location and topography: Eastern face of Bein Liath Bheag - Steeply sloping east. Hydrology: north-east of Caochan Ban. Peat Depth: (min) 0.0m - (max) 1.50m. Generally <1.00m Slope Gradient: 15° to 30° Exposure: Proposed turbine and associated infrastructure	Intrusive investigations should ascertain the nature of the resulting soft ground recorded. Micrositing onto thinner peat is recommended in this area.	Negligible		
H2	Т8	Negligible	Location and topography: Eastern face of Bein Liath Bheag - Steeply sloping east. Hydrology: north-east of Caochan Ban. Peat Depth: (min)	No specific actions for this area.	Negligible		



			0.0m - (max) 0.75m. Generally <0.50m Slope Gradient: 15° to 30°		
			Exposure: Proposed turbine and associated infrastructure		
Н3	Track section between T7 and T8	Low	Location and topography: Low lying valley between Meallan Caoruinn and Meall nan Caorach.	If required micrositing onto thinner peat is recommended.	Negligible
			Hydrology: north-east of Caochan Ban.		
			Peat Depth: (min) 0.0m - (max) 0.75m. Generally <0.50m		
			Slope Gradient: 15° to 30°		
			Exposure: Proposed tracks		
H4	No Infrastructure proposed	Negligible	Location and topography: Southern side of Meallan teth, sloping south.	No specific actions for this area.	Negligible
			Hydrology: Allt na Beinne Leithe Bige located in the southern area of zone H4.		
			Peat Depth: (min) 0.0m - (max) 2.20m. Generally <0.50m		
			Slope Gradient: 5° to 15°		
Н5	T11 and associated infrastructure	Negligible	Location and topography: South- eastern side of Meallan teth, steeply sloping south.	No specific actions for this area.	Negligible
			Hydrology: tributary of Allt na Beinne Leithe Bige		



	1	ı			
			Peat Depth: (min) 0.0m - (max) m. Generally <1.0m Slope Gradient: 15° to 30°		
			Exposure: Proposed turbine and associated infrastructure		
Н6	T6, T7 and associated infrastructure	Negligible	Location and topography: Near top of eastern face of Meallan Caoruinn, steeply sloping east, north-east Hydrology: No	No specific actions for this area.	Negligible
			significant watercourses in vicinity. Allt na Beinne Leithe Bige to the north		
			Peat Depth: (min) 0 m - (max) 1.4m. Generally, <1.0 m		
			Slope Gradient: 15° to 30° Exposure: Proposed infrastructure		
H7	Borrow Pit, existing tracks	Negligible	Location and topography: Eastern face of Meallan Caoruinn	No specific actions for this area.	Negligible
			Hydrology: No significant watercourses in vicinity. Allt na Beinne Leithe Bige to the north.		
			Peat Depth: (min) 0m - (max) 1.5m. Generally, <0.50m		
			Slope Gradient: 10° to 30°		
			Exposure: Proposed infrastructure		



Н8	T5, substation compound, existing tracks	Negligible	Location and topography: East of existing track, low-lying in valley between Eastern face of Meallan Caoruinn and the west of Socach Allt Giubhais Hydrology: Tributaries of Allt Giubhais Mor in the north. Peat Depth: (min) 0.1m - (max) 1.1m. Generally, <1.0m Slope Gradient: 10° to 30° Exposure: Proposed electrical compound, infrastructure	No specific actions for this area.	Negligible
Н9	Substation compound, existing tracks	Low	Location and topography: East of existing track, low-lying in valley between Eastern face of Meallan Caoruinn and the west of Socach Allt Giubhais, localised hagging in vicinity of water courses. Hydrology: Allt Giubhais Mor Peat Depth: 3.25 (max) 1.1m. Generally 1.50m - 2.0m Slope Gradient: 0° to 10° Exposure: watercourses	No development proposed in this area. No specific actions.	Low



H10	T2, T3 and T4 and associated infrastructure	Negligible	Location and topography: West of Socach Allt Giubhais, localised hagging in vicinity of water courses. Hydrology: Allt	Micrositing onto thinner peat is recommended in this area. Adoption of floating track construction	Negligible
			Giubhais Mor Peat Depth: 3.25 (max) 1.1m. Generally 1.50m - 2.0m Slope Gradient: 0° to 5°	techniques.	
			Exposure: Proposed infrastructure		

7.2 Embedded Mitigation

Embedded mitigation includes measures taken during design of the Development to reduce the potential for peat slide risk. In summary the principal measures that have been taken are:

- Locating infrastructure on shallower slopes, where possible; and
- Locating infrastructure on areas of shallow peat (or no peat) where possible.

7.3 Peat Slide Mitigation Recommendations

The following mitigation measures should be adopted post consent stage to validate the PSRA and influence the detailed design of the Proposed Development:

- Ground investigations prior to detailed design;
- Identification of areas sensitive to changes in drainage regime prior to detailed design:
- Update the PSRA as necessary following detailed ground investigations;
- Development of a drainage strategy that will not create areas of concentrated flow and will not affect the current peatland hydrology;
- Design of a development drainage system for tracks and hardstanding that will require minimal ongoing maintenance during the operation of the windfarm;
- Inspection and maintenance of the drainage systems during construction and operation;
- Identification of suitable areas for stockpiling material during construction prior to commencement of works; and
- Consideration of specific construction methods appropriate for infrastructure in peat land (i.e geogrids) as part of design development.



8 CONCLUSIONS

This PSRA has been undertaken for the proposed Lochluichart Windfarm Extension II in accordance with the SEG. The early stages of the assessment included a desk study and site walkover followed by a Phase 1 intrusive investigation exercise with peat probes driven at 100m centres within the study area and a Phase 2 intrusive investigation exercise with peat probes driven at 50m centres within the study area. The information gathered during this investigation was used to develop a Hazard Ranking across the Proposed Development site.

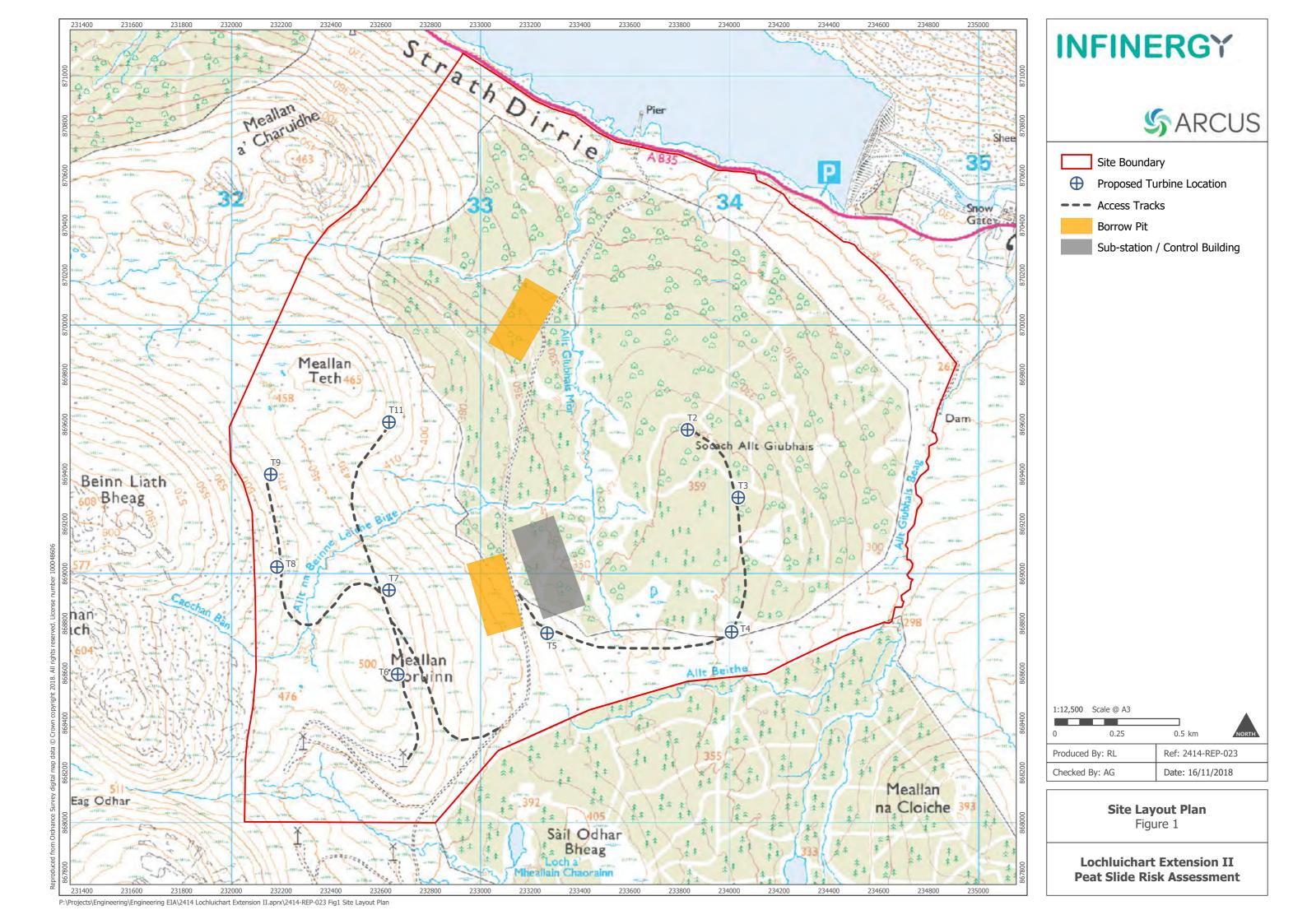
Through intrusive survey by probing, scoped based on desk study and site visit, it has been demonstrated that a majority of the site is underlain by thin or negligible deposits of peat, particularly the western site area. Deeper deposits (up to 3.75m) exist in flatter areas generally in the eastern site area.

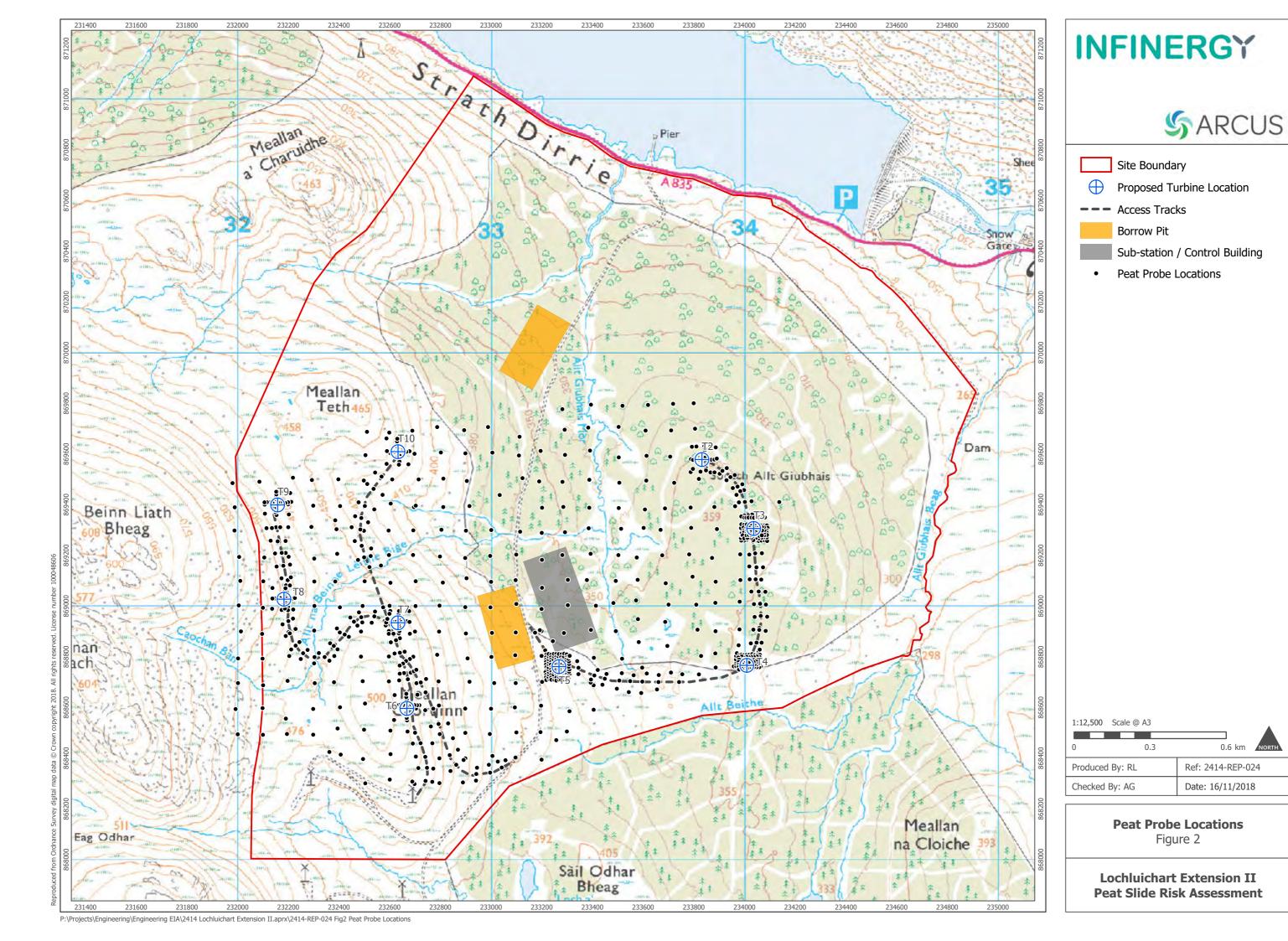
Based on the scope of the study, the PSRA shows the site to be generally of negligible or low hazard, with only two isolated areas recorded as presenting a medium ranking out with the proposed development footprint.

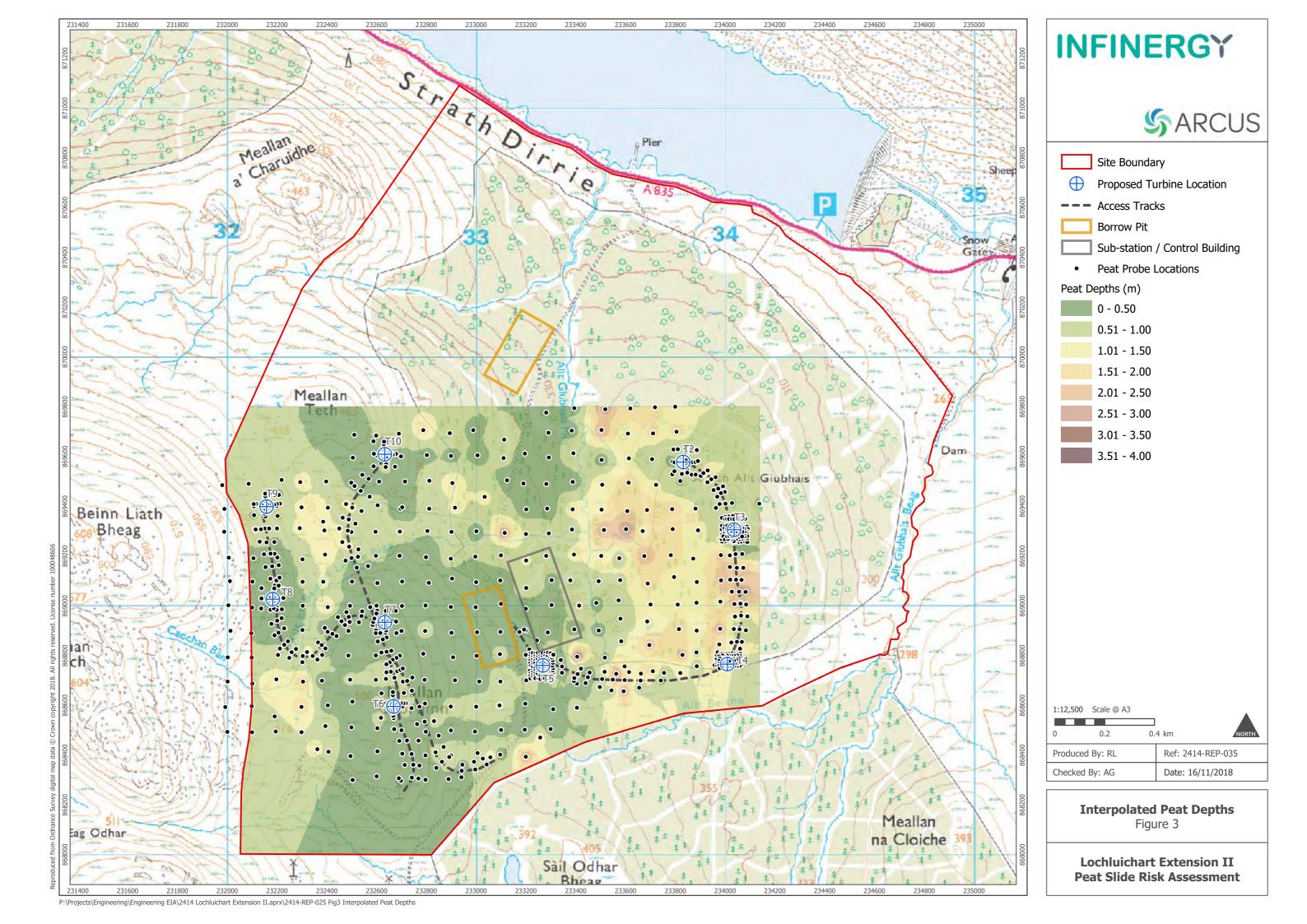
The Proposed Development will be designed where practicable to avoid areas with a hazard ranking above 'low'. Notwithstanding this, infrastructure should be checked on site and micrositing adopted if required in order to maintain the design objective of avoiding peat slide risk.

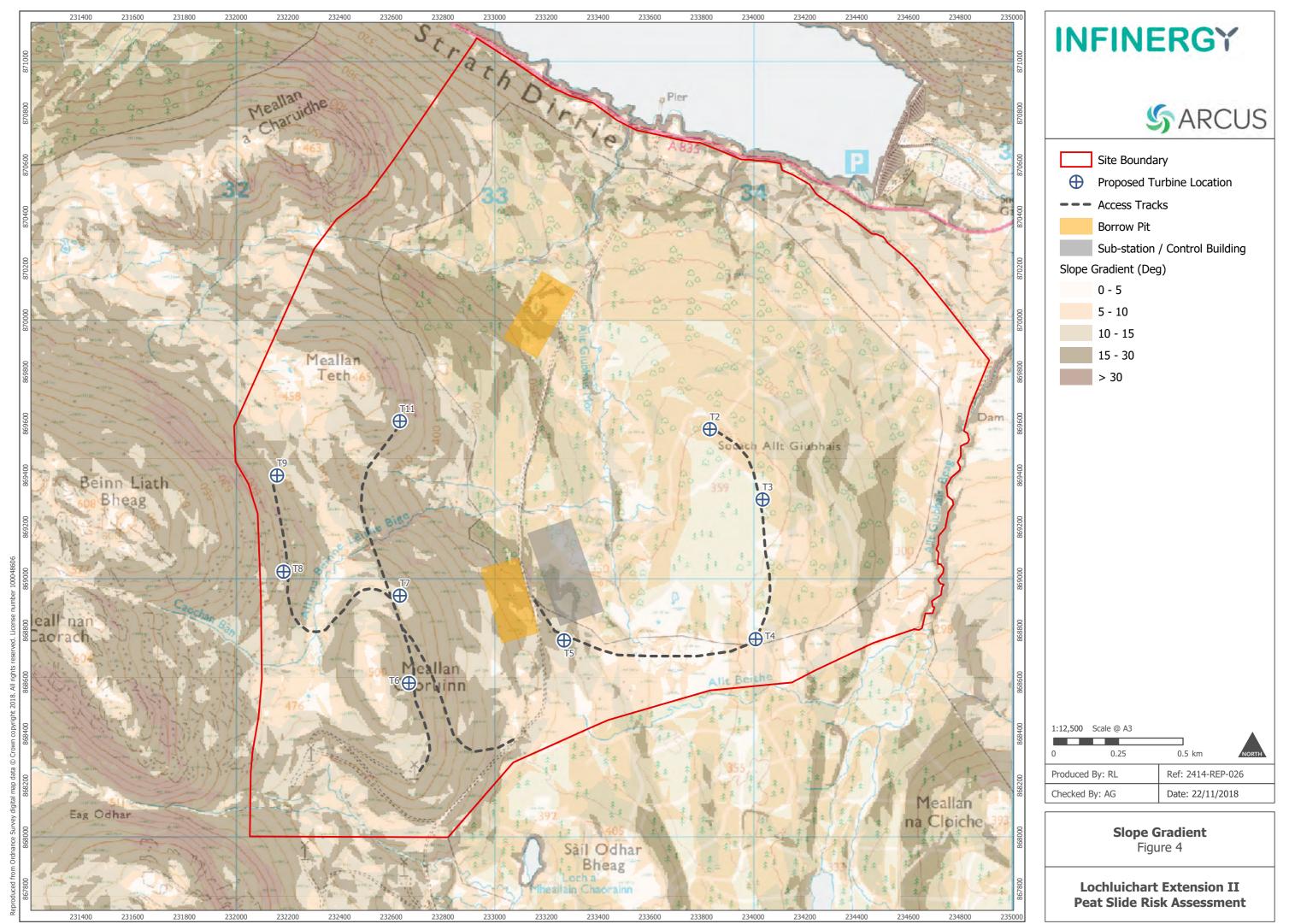


APPENDIX A - DRAWINGS

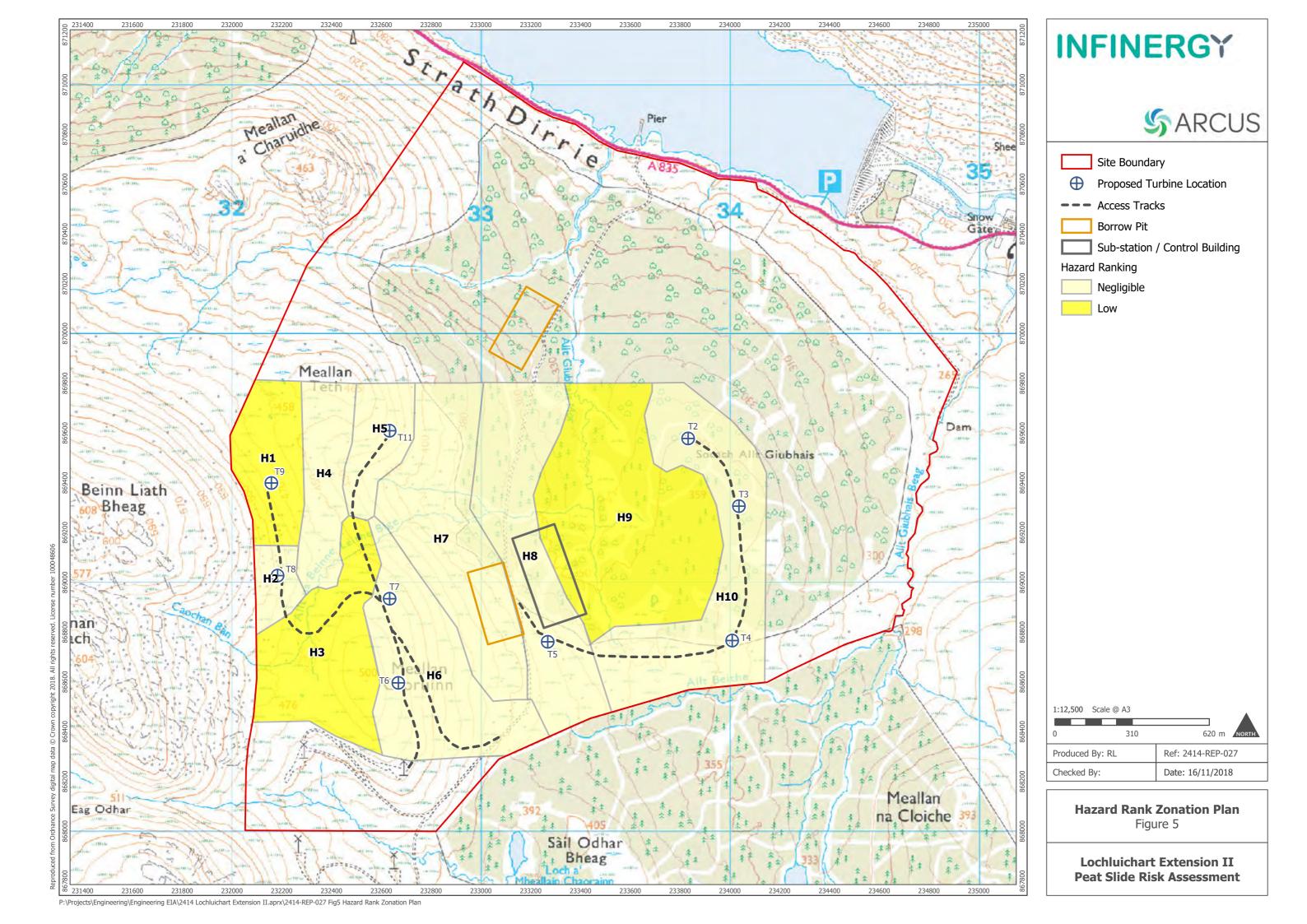








P:\Projects\Engineering\Engineering EIA\2414 Lochluichart Extension II.aprx\2414-REP-026 Fig4 Slope Gradient





APPENDIX B - HAZARD RANK ASSESSMENT RECORDS

164 232596.8 867201.2 476.9 16.2876695 8 165 232700.5 867203 459.7 23.47920964 8	0.6 476.3 0.3 459.4	2 rock 1 rock	1.5 1.5	24 12	3 Water Feature Minor 2 Wind Farm Layout	6	480.5 137.0203664 3 438.2 131.1290484 3	-3.6 21.5 27	1 2	18 18	2 6
166 232699.3 867398.6 440.6 17.27251653 8 167 232799.8 867101.7 458.2 14.61525681 6	1.0 439.6 0.8 457.45	2 rock 2 rock	1.5 1.5	24 18	3 Roads, Tracks, Paths 3 Roads, Tracks, Paths	2 2	413.6 146.1346174 3 451.7 57.62291515 3	6.5	1	12 6	1 6 3
168 233096.6 868402.3 402.6 11.94239892 6 169 233195.1 868502.6 394.5 9.465903163 6	0.0 402.6 0.0 394.5	1 rock 1 rock	1.5 1.5	9	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2 2	401.7 6.641739572 4 395.7 9.614583605 4	0.9 -1.2	1 1	8	1 2 2
170 233197.4 868606.9 396.7 13.94560847 6 171 233201.2 868700.9 391.1 22.7287805 8	0.0 396.7 0.3 390.8	1 rock 1 rock	1.5 1.5	9 12	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2 2	397.3 6.051201889 4 394.3 15.18805383 3	-0.6 -3.2	1 1	8 6	1 2 2
172 233199.3 868803.3 383.6 23.09429724 8 173 233199.3 868901.5 376.8 17.07509612 8	0.1 383.5 0.3 376.5	1 rock 1 rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	378.5 24.53531095 3 372.2 22.16134981 3	5.1 4.6	1 1	9	1 2 2
174 233096.9 869102.1 366.5 12.78217915 6 175 233095.4 868806 396.5 16.42245498 8	0.0 366.5 0.7 395.8	1 rock 2 rock	1.5 1.5	9 24	2 Roads, Tracks, Paths 3 Wind Farm Layout	2	366.5 1.564890136 4 396.5 0 4	0	1	8 12	2 6
176 233099.6 869008.4 378 18.722327 8 177 233100 868501.4 402.1 7.959341297 4	0.3 377.7 0.3 401.8	1 rock 1 rock	1.5 1.5	12 6	2 Wind Farm Layout 2 Roads, Tracks, Paths	3 2	378 0 4 398.2 66.83084276 3	0 3.9	1 1	12 6	2 4 2
178 232900.5 867303 415.6 10.64406953 6 179 232901.4 867200.6 432.2 10.52117282 6	0.0 415.6 0.0 432.2	1 rock 1 rock	1.5 1.5	9	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2	415.4 6.625225738 4 432.2 0.565131815 4	0.2	1	8	1 2
180 232897.4 867103.5 444.4 13.42996176 6 181 232998.8 867100.4 429.3 31.33902276 8	0.1 444.3 0.1 429.2	1 rock	1.5 1.5	9	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2	442.8 15.60448822 3 433.9 16.41633468 3	1.6 -4.6	1	6	1 2
182 233099.3 867100.3 409 24.51412791 8 183 233097.4 868895.8 389.9 16.67465424 8	0.1 408.9 0.3 389.6	1 rock 1 rock	1.5 1.5	12	2 Roads, Tracks, Paths 2 Wind Farm Layout	2	420.6 54.40309297 3 389.9 0 4	-11.6	1	6	1 2
184 233189 869491.7 355.2 10.59245674 6 185 233281.8 869490 344.4 11.06374502 6	0.2 355 0.2 344.2	1 rock	1.5 1.5	9	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2	359.4 43.73785825 3 358.6 132.1759736 3	-4.2 -14.2	1	6	1 2
186 233503.3 869706.8 330.7 3.916564619 2	2.5 328.2	3 sand and gravel	1	6	2 Water Feature Minor	6	328.9 30.31305521 3	1.8	1	18	2 4
188 233718.2 869797.9 337.2 8.833132104 6	2.0 335.2	3 rock 3 rock	1.5 1.5	27	3 Water Feature Minor 3 Wind Farm Layout	3	350.1 227.4904119 3	6.5 -12.9	1	9	1 3
189 233799.4 869800.1 335.9 10.31106643 6 190 233804.8 869699.7 343.5 6.790728779 4	2.0 341.5	3 clay	2 2	24 24	3 Wind Farm Layout 3 Wind Farm Layout	3	350.1 211.0366613 3 350.1 110.4455609 3	-14.2 -6.6	1	9	1 3
191 233710.5 869692.9 342.9 5.329676468 4 192 233609.6 869692.3 337.8 9.520158343 6	1.7 341.2 1.2 336.6	3 sand and gravel 2 sand and gravel	1	12	2 Wind Farm Layout 2 Water Feature Minor	6	350.1 142.9730773 3 334.1 96.38127799 3	-7.2 3.7	1	18	2 4
193 233613.5 869592.7 339.6 10.4874755 6 194 233706.7 869589.4 347.5 6.599319342 4	1.0 338.6 0.6 346.9	2 clay 2 rock	2 1.5	24 12	3 Water Feature Minor 2 Wind Farm Layout	6 3	334 64.96115343 3 350.1 102.3567729 3	5.6 -2.6	1	18 9	1 2
195 233807.3 869581.9 350.4 6.05986108 4 196 233819.9 869501.6 354.3 4.259938897 4	0.5 349.9 0.2 354.1	1 sand and gravel 1 rock	1 1.5	4 6	1 Wind Farm Layout 2 Wind Farm Layout	3	350.1 7.600426774 4 350.4 77.34026672 3	0.3 3.9	1	12 9	1 2 2
197 233722.5 869486.2 350.1 6.904970073 4 198 233612.5 869495.1 340.6 6.770239377 4	1.1 349 2.0 338.6	2 rock 3 rock	1.5 1.5	12 18	2 Wind Farm Layout 3 Water Feature Minor	3 6	350.1 134.6196053 3 334 133.0002879 3	0 6.6	1	9 18	1 2 2 6
199 233124.1 869504.6 360.9 7.869386035 4 200 233034.2 869438 365.7 7.637172963 4	0.3 360.6 1.1 364.6	1 sand and gravel 2 rock	1 1.5	4 12	1 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2 2	360 22.34945774 3 360.5 86.67630759 3	0.9 5.2	1	6 6	1 2
201 232914.9 869394.5 376.5 10.43796853 6 202 232811.5 869390.5 386.5 12.91672781 6	1.1 375.4 0.9 385.6	2 sand and gravel 2 clay	1 2	12 24	2 Water Feature Minor 3 Water Feature Minor	6 6	374.9 33.81213699 3 385.3 19.14230498 3	1.6 1.2	1	18 18	2 4 6
203 232695.9 869390.2 399.3 14.7308318 6 204 232703 869396.1 399.9 16.26084525 8	0.0 399.3 0.0 399.9	1 rock 1 rock	1.5 1.5	9 12	2 Water Feature Minor 2 Water Feature Minor	6 6	396.5 14.37706749 3 395.6 15.35527141 3	2.8 4.3	1	18 18	2 2 4
205 232604.2 869404.3 411.6 22.25024606 8 206 232502.2 869394.8 426.3 15.13018166 8	1.0 410.6 1.2 425.1	2 rock 2 sand and gravel	1.5 1	24 16	3 Water Feature Minor 3 Wind Farm Layout	6 3	410.7 9.702134471 4 425.9 1.215016538 4	0.9	1	24 12	3 2
207 232404.5 869394.5 441.2 19.44831616 8 208 232385.4 869338.4 449.5 16.00711196 8	1.0 440.2 1.1 448.4	2 sand and gravel 2 rock	1 1.5	16 24	3 Wind Farm Layout 3 Wind Farm Layout	3	430.8 91.03932732 3 435.8 101.1798118 3	10.4 13.7	2 2	18 18	2 6 6
209 232390.3 869303.1 450.9 11.34110606 6 210 232393 869206.1 458 9.479321526 6	1.3 449.65 1.5 456.5	2 sand and gravel 2 rock	1 1.5	12 18	2 Wind Farm Layout 3 Wind Farm Layout	3	439.1 94.11270831 3 444.4 103.6044546 3	11.8 13.6	2 2	18 18	2 4 2 6
211 232302.4 869187.2 466.8 19.84302436 8 212 232201.5 869194.4 488.2 20.3381117 8	0.8 466 0.3 487.9	2 rock 1 rock	1.5 1.5	24 12	3 Wind Farm Layout 2 Wind Farm Layout	3	493.4 121.4527288 3 493.8 23.23621727 3	-26.6 -5.6	1 1	9	1 1 2
213 232105.4 869191.5 511.6 27.26527743 8 214 232006.2 869193.7 534.5 21.70431706 8	0.1 511.5 0.0 534.5	1 rock 1 rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	492.6 71.54536284 3 492.3 168.4428334 3	19 42.2	2 2	18 18	2 2 4
215 231987.9 869297.9 531.9 23.97191596 8 216 231988.9 869389.6 519.9 29.99718107 8	1.0 530.9 0.5 519.4	2 sand and gravel 1 rock	1 1.5	16 12	3 Wind Farm Layout 2 Wind Farm Layout	3 3	485.1 165.348833 3 480.4 146.370782 3	46.8 39.5	2 2	18 18	2 6 2 4
217 231980.1 869485.1 501.3 29.32157065 8 218 232086.1 869490.4 479.2 15.15514392 8	0.8 500.5 1.0 478.2	2 sand and gravel 2 rock	1 1.5	16 24	3 Wind Farm Layout 3 Wind Farm Layout	3 3	480.4 174.6072803 3 480.4 99.31916151 3	20.9 -1.2	2 1	18 9	2 1 3
219 232107 869400.4 485.3 24.19042653 8 220 232114.2 869307.1 497.2 31.92186004 8	0.8 484.55 1.3 495.95	2 rock 2 sand and gravel	1.5 1	24 16	3 Wind Farm Layout 3 Wind Farm Layout	3 3	480.4 27.79177952 3 485.7 39.86278844 3	4.9 11.5	1 2	9 18	1 3 6
221 232200 869311 476.2 22.89420639 8 222 232199.4 869401.2 469.7 11.8603458 6	0.8 475.4 1.3 468.45	2 sand and gravel 2 rock	1 1.5	16 18	3 Wind Farm Layout 3 Wind Farm Layout	3 3	486 44.88335487 3 475.3 41.41243379 3	-9.8 -5.6	1 1	9	1 1 3
223 232291.3 869312.3 461.5 13.23168502 6 224 232298.5 869396 456.5 13.32912787 6	1.3 460.25 1.3 455.25	2 rock 2 rock	1.5 1.5	18 18	3 Wind Farm Layout 3 Wind Farm Layout	3 3	488.2 134.4768502 3 475.3 140.5553564 3	-26.7 -18.8	1 1	9	1 1 3
225 232218.4 869506.3 461 13.77521861 6 226 232293.3 869497.2 452.3 12.72493102 6	0.5 460.5 1.3 451.05	1 rock 2 sand and gravel	1.5 1	9 12	2 Wind Farm Layout 2 Wind Farm Layout	3 3	475.3 123.1332956 3 475.3 167.177024 3	-14.3 -23	1 1	9 9	1 1
227 232397.7 869500 436.1 19.07961555 8 228 232498 869495.2 428.9 12.18729824 6	0.9 435.2 0.4 428.5	2 rock 1 sand and gravel	1.5 1	24 6	3 Wind Farm Layout 2 Wind Farm Layout	3	423.3 131.929735 3 422.4 48.4121068 3	12.8 6.5	2	18 9	2 6 2
229 232504.6 869595.3 445.7 17.18326844 8 230 232510.6 869687.4 456.6 13.30925661 6	0.1 445.6 0.1 456.5	1 rock 1 rock	1.5 1.5	12 9	2 Wind Farm Layout 2 Wind Farm Layout	3	429.5 103.6285746 3 435.3 145.3583672 3	16.2 21.3	2 2	18 18	2 4 4
231 232598.5 869684.3 446.8 17.22299666 8 232 232603 869603.1 439.8 19.47642106 8	0.8 446.05 0.1 439.7	2 clay 1 rock	2 1.5	32 12	4 Wind Farm Layout 2 Wind Farm Layout	3	432.5 81.94932492 3 433.5 29.13712404 3	14.3 6.3	2	18 9	2 8
233 23387.7 869498.2 332.7 8.364933329 6 234 233506.2 869486.6 337.5 5.97693617 4	0.2 332.5 1.2 336.3	1 rock 2 sand and gravel	1.5	9	2 Water Feature Minor 2 Water Feature Minor	6	330.3 34.7928536 3 330.8 72.73378162 3	2.4	1	18 18	2 4
235 233503.7 869586.6 334 5.001085595 4 236 233518.6 869790 330.4 3.897663472 2	0.2 333.8 2.8 327.65	1 rock 3 sand and gravel	1.5	6	2 Water Feature Minor 2 Water Feature Minor	6	334.1 53.25557281 3 326.9 99.40725719 3	-0.1 3.5	1	18	2 4
237 233114.8 869293.3 358.4 18.67201223 8 238 23320 86928.7 352.3 6.749122107 4	2.5 355.9 1.0 351.3	3 rock 2 sand and gravel	1.5	36	4 Roads, Tracks, Paths 2 Water Feature Minor	2	359.8 14.99825725 3 351.2 14.06167287 3	-1.4 1.1	1	6	1 4
239 233201 869387.8 354.9 4.363475411 4 240 233285.1 869391.1 347.3 10.68770795 6	0.1 354.8 0.2 347.1	1 rock	1.5 1.5	6	2 Roads, Tracks, Paths 2 Water Feature Minor	2	360.4 86.07933624 3 366.8 111.4183987 3	-5.5 0.5	1	6	1 2
241 23387.5 869387.9 335.7 9.086209162 6 242 233503.7 869386.7 339.8 10.65525156 6	1.3 334.45	2 rock	1.5 1.5	18	3 Water Feature Minor	6	333.4 31.51886072 3 333.5 61.39649094 3	2.3	1	18	2 6
243 233607.2 869380.9 343.2 1.711226217 1	2.0 341.2	3 sand and gravel 3 rock	1.5 1 1.5	3	3 Water Feature Minor 1 Water Feature Minor	6	342.5 107.5371926 3	0.7	1	18	2 2
244 233686.3 869385.2 347.9 6.814240607 4 245 233787.4 869388.6 354.4 3.901370634 2 246 233881.1 869390.9 358 3.00700741 2	2.0 345.9 2.0 352.4 1.0 357	3 clay	2	12	3 Water Feature Minor 2 Water Feature Minor 2 Wind Farm Layout	6	344.7 129.9156593 3 346.8 199.9517794 3 355.7 118.8182984 3	3.2 7.6 2.3	1	18	2 4
240 233962.8 869393.7 357.8 2.087869366 2 248 23399.6 869293.5 357 2.81248268 2	1.1 356.7	2 sand and gravel	1.5	4	1 Wind Farm Layout 2 Wind Farm Layout	3	355.7 41.23125636 3 357.4 35.7799155 3	0.7	1	9	1 1
249 233983 869204.1 354.4 0.223788251 1	2.6 351.8	3 rock	1.5	4.5	1 Wind Farm Layout	3	354.1 56.52604901 3	0.3	1	9	1 1
250 233983.7 869102.4 352.6 4.360383728 4 251 233980.9 869017.2 351.1 3.304667191 2 252 234062.5 869012.7 348.1 9.525174335 6	2.0 350.6 1.1 350	3 sand and gravel 2 rock	1.5	6	2 Wind Farm Layout 2 Wind Farm Layout	3	350.3 63.23443541 3 348.7 80.50023225 3	2.3	1	9	1 2
253 234058.2 868913.5 346.9 4.777323794 4	3.0 345.1 0.5 346.4	sand and gravel	1.5	4	3 Wind Farm Layout 1 Wind Farm Layout	3	348.1 0.591869078 4 346.7 2.534405714 4	0.2	1	12 12	2 2
254 234055.7 868820.2 344.1 10.47065766 6 255 234064.5 868761.4 341.6 10.96572992 6	1.0 343.1 0.5 341.1	1 clay	1.5 2	12	3 Wind Farm Layout 2 Wind Farm Layout	3	345.9 20.71847459 3 345.9 50.85653013 3 349.2 23.22721959 3	-1.8 -4.3	1	9	1 2
256 233957.6 868762 349.2 6.629798613 4 257 233976.7 868845.2 348.5 5.038082849 4	0.5 348.7 2.1 346.4	3 rock	1.5 1.5	18	2 Wind Farm Layout 3 Wind Farm Layout	3	346.3 61.93205368 3	2.2	1	9	1 3
258 233980.1 868908 349.6 3.411211161 2 259 233885.7 868900.6 353 1.023919318 1 260 233884.8 868813.1 354.6 3.956004345 2	2.8 346.85 1.0 352	3 rock 2 clay	1.5	4	2 Wind Farm Layout 1 Wind Farm Layout	3	346.6 77.84527108 3 345.6 167.0691552 3	7.4	1	9	1 1
261 233886.1 868757.5 355.6 8.059281196 6	0.8 353.85 0.5 355.1	2 sand and gravel 1 sand and gravel	1	6	1 Wind Farm Layout 2 Wind Farm Layout	3	354.5 96.8500057 3 354.5 41.56506323 3	0.1 1.1	1	9	1 1 2
262 233820.1 868730.4 356.4 4.480022556 4 263 233828.6 868803.1 355 2.25055169 2 264 233814.5 868906.7 354.1 4.46446578 4	1.1 355.3 2.5 352.5	2 sand and gravel 3 rock	1 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	356.8 24.23934836 3 355.8 94.92900827 3	-0.4 -0.8	1	9	1 2
265 233809.6 869005.3 355.4 2.435194252 2	1.8 352.35 1.3 354.15	2 sand and gravel	1.5 1	18 4	3 Wind Farm Layout 1 Wind Farm Layout	3	355.8 199.4976125 3 349.4 251.1407318 3	-1.7 6	1	9	1 1
266 233885 869012.6 354 2.450669644 2 267 233886.3 869096 355.1 1.323760975 1	1.4 352.6 1.0 354.1	2 rock 2 clay	1.5 2	6 4	2 Wind Farm Layout 1 Wind Farm Layout	3	349.1 175.6693641 3 350.3 160.8568235 3	4.9 4.8	1 1	9	1 2 1
268 233871.9 869189.8 355.9 0.176849473 1 269 233891.2 869303.7 356.7 3.956076253 2	1.0 354.9 1.1 355.6	2 clay 2 rock	2 1.5	6	1 Wind Farm Layout 2 Wind Farm Layout	3	353.8 168.3623515 3 357.7 131.5971005 3	2.1 -1	1 1	9	1 1 2
270 233789.4 869308.6 354.6 3.262139649 2 271 233781.6 869203.8 354.9 0.538990446 1	1.8 352.85 2.0 352.9	3 rock 3 rock	1.5 1.5	4.5	2 Water Feature Minor 1 Water Feature Minor	6	346.8 141.1297366 3 346.8 122.7505972 3	7.8 8.1	1	18	2 2
272 233795 869115.8 355.8 0.412352526 1 273 233689.1 869089.9 354.5 3.656455437 2	1.3 354.55 1.8 352.75	2 rock 3 sand and gravel	1.5	6	1 Water Feature Minor 2 Water Feature Minor	6	346.8 181.2407008 3 346.8 153.9806465 3	9 7.7	1	18	2 4
274 233700.4 869005.6 357.2 3.032923521 2 275 233687.1 868937.4 357.9 1.293573673 1 376.23687.5 6894.7 368.0 1 36669398	1.3 355.95 1.0 356.9	2 clay 2 sand and gravel	1	2	2 Water Feature Minor 1 Water Feature Minor 2 Wind Exem Journal	6	355.4 226.5769526 3 356.6 185.4955495 3	1.8 1.3	1	18	2 2
276 233695.5 868842.7 358.9 1.256689384 1 277 233709.8 868737.6 359.9 1.006740802 1 278 233596.4 368756.9 360.2 1.767082585 1	2.3 356.65 1.9 358 0.9 359.3	3 clay 3 rock	2 1.5 2	4.5	2 Wind Farm Layout 1 Wind Farm Layout 1 Water Feature Minor	3	359.8 142.0121574 3 359.9 36.95230282 3 359.9 27.41189915 3	-0.9 0 0.3	1	9	1 1
278 233596.4 868756.9 360.2 1.767082585 1 279 233582.8 868857.8 359 1.526748958 1 280 233579.5 868948.5 355.9 4.060921409 4	0.9 359.3 0.9 358.1 0.6 355.3	2 clay 2 sand and gravel 2 sand and gravel	1	2	1 Water Feature Minor 1 Water Feature Minor 2 Water Feature Minor	6	359.9 27.41189915 3 357.1 62.75495512 3 355.4 93.36153826 3	0.3 1.9 0.5	1	18 18 18	2 2
281 233572.5 869022.4 353 4.471382716 4 282 233578.5 869103.5 348.3 5.052448542 4	0.9 352.1 0.9 347.4	2 rock	1.5 1.5	12 12	2 Water Feature Minor 2 Water Feature Minor	6	336.7 108.3164858 3 344.4 122.1016588 3	6.3 3.9	1	18	2 4
283 23367.5 869191.4 345.1 7.228657359 4 284 233675.3 86920.2 349.8 6.561621112 4	0.5 344.6 2.5 347.3	1 clay 3 sand and gravel	2	8	2 Water Feature Minor 2 Water Feature Minor	6	340.8 54.90951134 3 346.8 43.06257537 3	4.3	1	18	2 4
285 233668.9 869300.6 347.7 6.894720598 4 286 233602 869308.3 344.3 4.096402678 4	1.1 346.6 3.3 341.05	2 rock	1.5 1.5	12 12 18	2 Water Feature Minor 3 Water Feature Minor	6	345.1 52.53373104 3	2.6 0.8	1	18	2 4
280 233502 659304.8 342 3.783418008 2 288 233502.3 869201 341.5 8.581905096 6	2.4 339.6	3 rock 3 rock 2 rock	1.5 1.5	9 18	2 Water Feature Minor 3 Water Feature Minor	6	343.5 37.09878788 3 342 44.88665502 3 340.3 22.01309327 3	0.8 0 1.2	1	18	2 2 4
289 233492 869099.1 345.9 6.482534987 4	0.9 345	2 rock 1 rock	1.5	12	2 Water Feature Minor	6	343.9 37.90117213 3 347.1 18.58997733 3	2 3.1	1	18	2 4
291 233413.6 869001.2 349.9 6.603753373 4	1.1 348.8	2 rock	1.5 1.5	12	2 Water Feature Minor 2 Wind Farm Layout	3	347.1 18.36997/33 3 352.6 33.59705398 3 337 64.17571607 3	-2.7 5.2	1	9	1 2
293 233385.1 869306.9 338.1 8.485612376 6	0.8 337.35	2 sand and gravel	1.5	18 12	3 Water Feature Minor 2 Water Feature Minor	6	338.3 2.172322283 4	-0.2	1	18 24	2 6 6
294 233291.7 869291.2 347.4 8.119729986 6 295 233281.3 869201.1 349.1 5.708341037 4	0.5 346.9 0.5 348.6	1 rock 1 rock	1.5 1.5	6	2 Water Feature Minor 2 Wind Farm Layout	3	346.7 12.15202918 3 349.1 0 4	0.7 0	1	18 12	2 2 4
296 233200.8 869182.2 353.5 5.546476847 4 297 233492.3 868901 354.4 7.014200234 4	1.1 352.4 0.3 354.1	2 rock 1 rock 1 rock	1.5 1.5	12 6	2 Wind Farm Layout 2 Water Feature Minor	6	353.5 0 4 354.6 4.065537076 4	0 -0.2	1	12 24	2 3 6
298 233516.9 868792.2 358.5 7.120798154 4 299 232904.5 869493.4 379.7 16.82288345 8	0.2 358.3 1.5 378.2	1 rock 2 rock	1.5 1.5	6 24	2 Water Feature Minor 3 Water Feature Minor	6	358 5.698477659 4 374.9 131.9596585 3	0.5 4.8	1	24 18	- 3 2 6
300 232812 869502.7 394 17.06725648 8 301 232714.3 869499.6 409 17.56407505 8	0.9 393.1 0.3 408.7	2 rock 1 rock	1.5 1.5	24 12	3 Water Feature Minor 2 Water Feature Minor	6 6	387.5 128.6723738 3 395.6 116.6661089 3	6.5 13.4	2	18 36	4 8
302 232610.2 869499.5 419.4 20.34904324 8 303 232698.1 869600.8 420.2 29.50190216 8	0.1 419.3 0.1 420.1	1 rock 1 rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	428.7 38.4026523 3 432.5 49.43188049 3	-9.3 -12.3	1	9	1 2 2
304 232689.4 869691.8 421 31.65943258 8 305 232787.5 869706.2 397.1 14.63985731 6	1.0 420 1.8 395.35	2 clay 3 sand and gravel	2 1	32 18	4 Wind Farm Layout 3 Wind Farm Layout	3	432.5 75.06596451 3 432.5 155.2483844 3	-11.5 -35.4	1	9	1 4 3
306 232802.1 869605.9 396.5 17.57059146 8 307 232898.8 869602.6 382.3 10.25768453 6	0.3 396.2 0.3 382	1 rock 1 rock	1.5 1.5	12 9	2 Wind Farm Layout 2 Water Feature Minor	3 6	432.5 148.2342837 3 375.6 241.1355908 3	-36 6.7	1 1	9 18	1 2 4
308 232894 869693.9 386.7 12.04082089 6 309 232988.2 869706.2 375.3 17.47381566 8	0.9 385.8 0.3 375	2 rock 1 sand and gravel	1.5	18 8	3 Wind Farm Layout 2 Roads, Tracks, Paths	3 2	432.5 248.5842697 3 348.3 199.9898938 3	-45.8 27	1 2	9 12	1 2 4
310 233005.3 869605.2 371.2 13.28212133 6 311 233110 869593.8 360.8 10.40050876 6	0.3 370.9 0.6 360.2	1 clay 2 sand and gravel	2 1	12 12	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2 2	356.4 162.2698318 3 355.1 57.43274489 3	14.8 5.7	2 1	12 6	2 1 2
312 233112.4 869667.9 358.7 14.12189504 6 313 233195.6 869612 348.6 16.08704243 8	1.0 357.7 0.3 348.3	2 sand and gravel 1 sand and gravel	1	12 8	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2 2	349.1 70.48379467 3 353 22.47331151 3	9.6 -4.4	1 1	6 6	1 1 2 2
314 233291.9 869596.4 338.4 9.960449514 6 315 233390.4 869613.3 329.5 7.886040804 4	0.3 338.1 1.0 328.5	1 rock 2 rock	1.5 1.5	9 12	2 Water Feature Minor 2 Water Feature Minor	6	329 112.1737726 3 328.4 19.39983789 3	9.4 1.1	1 1	18 18	2 2 4
316 233383.5 869704.1 329.5 13.70541399 6 317 233394.1 869794.5 325.8 9.371506226 6	0.3 329.2 0.3 325.5	1 clay sand and gravel	2 1	12 6	2 Water Feature Minor 2 Water Feature Minor	6	326.6 18.05678311 3 324.9 9.555937985 4	2.9 0.9	1 1	18 24	2 3 6
318 233290.5 869695.7 333 9.355583331 6 319 233281.3 869776.6 335 6.191567828 4	0.2 332.8 0.2 334.8	1 rock 1 rock	1.5 1.5	9 6	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2 2	343.5 97.94820236 3 340.8 74.57205352 3	-10.5 -5.8	1	6	1 2 2

320 234030.2 869361.2 357.1 3.65989423 2 321 234013.3 869358.9 357.8 3.437618489 2	1.0 356.1 1.0 356.8	2 sand and gravel rock	1 1.5	4 6	1 Wind Farm Layout 2 Wind Farm Layout	3	357.8 16.88492714 3 357.8 0.137561493 4	-0.7 0	1 1	9 12	1 1 4
322 233999.7 869357.4 358.3 1.263687893 1 323 233977.9 869409.1 357.3 4.441310823 4	0.8 357.55 0.8 356.55	2 sand and gravel 2 sand and gravel	1 1	2 8	1 Wind Farm Layout 2 Wind Farm Layout	3	357.7 13.72497115 3 356.7 22.41823853 3	0.6 0.6	1	9	1 1 2
324 234001.5 869410.6 356.8 5.151853877 4 325 234027.7 869413.4 355.7 5.844553707 4	0.6 356.2 0.3 355.4	2 sand and gravel 1 sand and gravel	1 1	8 4	2 Wind Farm Layout 1 Wind Farm Layout	3	356.8 0.280648811 4 357 26.44481406 3	0 -1.3	1	12 9	2 1
326 233173.6 868894.9 381.4 18.91671204 8 327 233192.5 868905 377.5 17.06757565 8	0.2 381.2 0.3 377.2	1 sand and gravel 1 sand and gravel	1 1	8	2 Wind Farm Layout 2 Wind Farm Layout	3	381.4 4.161680979 4 381.4 25.47338372 3	0 -3.9	1 1	12 9	2 1
328 233243.9 868861.5 372.5 16.05524826 8 329 233213.7 868825.3 378.7 17.85997532 8	0.1 372.4 0.1 378.6	1 rock	1.5 1.5	12	2 Wind Farm Layout 2 Wind Farm Layout	3	372.5 0 4 378.7 0.432134765 4	0	1	12	2 4 4
330 233218.8 86809.8 379.2 16.63789639 8 331 233217.1 868797.3 380.2 17.83432581 8	1.0 378.2 0.3 379.9	2 rock	1.5 1.5	24	3 Wind Farm Layout 2 Wind Farm Layout	3	378.3 4.616580145 4 378.4 12.93106665 3	0.9	1	12	5
332 233217 868788.2 381.6 17.86908806 8	0.1 381.5	1 sand and gravel	1	8	2 Wind Farm Layout	3	378.6 17.98675128 3	3	1	9	1 2
333 233216.8 868779.9 382.7 18.55025832 8 334 233217.1 868769.3 384 19.58351902 8	0.2 382.5 0.1 383.9	1 rock 1 rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	378.6 23.5449172 3 378.6 32.09238181 3	4.1 5.4	1	9	1 2 2
335 233218.3 868758.3 385.4 19.71759388 8 336 233218.4 868747.3 386.6 19.68731497 8	0.3 385.1 0.3 386.3	1 rock 1 sand and gravel	1.5 1	12 8	2 Wind Farm Layout 2 Roads, Tracks, Paths	3 2	378.6 41.72951176 3 392.8 40.01509796 3	6.8 -6.2	1 1	9 6	1 2 2
337 233215.1 868739.6 387.3 19.04928134 8 338 233217.5 868728.6 387.8 13.25311332 6	0.3 386.95 0.3 387.5	1 sand and gravel 1 sand and gravel	1 1	8 6	2 Roads, Tracks, Paths 2 Roads, Tracks, Paths	2 2	392.9 35.46778721 3 393.5 35.89853568 3	-5.6 -5.7	1 1	6 6	1 1
339 233217.1 868718.8 387.8 11.7255981 6 340 233218.1 868708.4 388.3 11.7374902 6	1.2 386.6 1.1 387.2	2 rock 2 rock	1.5 1.5	18 18	3 Roads, Tracks, Paths 3 Roads, Tracks, Paths	2 2	394.2 33.86824172 3 393.7 33.07066144 3	-6.4 -5.4	1 1	6 6	1 1
341 233229.1 868712.5 386.9 11.72701759 6 342 233226.8 868720.4 386.5 12.0268899 6	0.2 386.7 1.1 385.4	1 rock	1.5 1.5	9 18	2 Roads, Tracks, Paths 3 Roads, Tracks, Paths	2 2	393.7 44.64436121 3 394.2 43.71908457 3	-6.8 -7.7	1	6	1 2
343 233227.7 868730.4 386.1 17.41312673 8 344 233228.1 868739.4 385.8 19.69404377 8	0.3 385.8 0.1 385.7	1 rock 1 rock	1.5 1.5	12 12	2 Roads, Tracks, Paths Wind Farm Layout	2	393.5 46.23638379 3 379.2 45.43540232 3	-7.4 6.6	1	6	1 2
345 233226.1 868750.3 384.8 19.58327206 8 346 233227.3 868757.6 384.1 18.79835125 8	0.1 384.7 0.1 384	1 sand and gravel	1 2	8	2 Wind Farm Layout 3 Wind Farm Layout	3	379.2 43.23942087 3 377.7 38.94135824 3	5.6 6.4	1	9	1 2
347 233227.9 868770.3 382.2 16.5782614 8 348 233228.3 868779.9 381.5 16.05258575 8	0.3 381.9 0.1 381.4	1 clay 1 rock	2	16	3 Wind Farm Layout 2 Wind Farm Layout	3	377.9 26.96987951 3 377.9 17.94946209 3	4.3	1	9	1 3
349 233227.3 868790.1 379.8 16.13920505 8 350 233228.1 868799.8 379.1 16.0977096 8	0.2 379.6 0.3 378.8	1 rock 1 rock	1.5 1.5	12	2 Wind Farm Layout 2 Wind Farm Layout	3	378.6 9.03838679 4 377.9 2.339422033 4	1.2 1.2	1	12	2 4
350 233228.1 868/99.8 379.1 16.097/096 8 351 233227.2 868811 377.9 15.16981358 8 352 233237.7 868808.8 377.1 13.28076304 6	0.8 377.15 0.8 376.35	2 clay	2 1.5	32	4 Wind Farm Layout 3 Wind Farm Layout	3	378.6 2.985195551 4 378.4 10.56857857 3	-0.7 -1.3	1	12	2 8
353 233236.2 868797.2 377.9 14.50891165 6	0.3 377.6	1 rock	1.5	9	2 Wind Farm Layout	3	377.9 1.146784873 4	0	1	12	2 4
354 233237.8 868789.2 379.1 15.44197277 8 355 233237.4 868779.8 380.3 16.02069074 8	0.3 378.8 0.4 379.9	1 rock 1 rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	378.6 5.709771215 4 377.7 14.5163871 3	0.5 2.6	1	9	1 2
356 233235.7 868768.6 381.6 16.03373688 8 357 233238 868758.1 383 15.9590809 8	0.5 381.1 0.2 382.8	1 rock 1 rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	377.4 25.48948188 3 379.2 30.13561022 3	4.2 3.8	1	9 9	1 2 2
358 233237.2 868750 383.7 16.71401335 8 359 233238 868739.3 384.7 18.28274666 8	0.2 383.5 0.4 384.3	1 clay 1 rock	2 1.5	16 12	3 Wind Farm Layout 2 Wind Farm Layout	3	379.2 32.69978287 3 379.2 37.05866989 3	4.5 5.5	1 1	9 9	1 3 2
360 233237.9 868729.1 385.4 18.79445274 8 361 233236.8 868717.1 386 12.06747343 6	0.3 385.1 0.4 385.6	1 rock 1 rock	1.5 1.5	12 9	2 Wind Farm Layout 2 Roads, Tracks, Paths	3 2	379.2 43.84672882 3 394.3 53.04319628 3	6.2 -8.3	1 1	9 6	1 2 2
362 233238 868709.2 386.2 11.09431542 6 363 233250.2 868708.6 385.4 11.37745376 6	0.4 385.8 1.0 384.4	1 rock 2 rock	1.5 1.5	9 18	2 Roads, Tracks, Paths 3 Wind Farm Layout	3	393.7 52.79847609 3 379.2 55.30452883 3	-7.5 6.2	1 1	6 9	1 2 3
364 233250.2 868721.4 384.4 13.68216624 6 365 233246.4 868729.8 384.4 15.9635295 8	0.5 383.9 0.1 384.3	1 rock 1 rock	1.5 1.5	9 12	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 43.40326104 3 379.2 37.93478584 3	5.2 5.2	1 1	9	1 2 1 2
366 233248.6 868740.6 383.4 14.02154753 6 367 233247.4 868752.2 382.6 13.98655301 6	0.2 383.2 0.0 382.6	1 rock 1 rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 28.17327798 3 379.2 22.41694997 3	4.2 3.4	1 1	9	1 1 2
368 233247.6 868760.2 381.3 13.64716933 6 369 233248.5 868769.5 380.6 13.21571445 6	0.1 381.2 1.0 379.6	1 rock 2 rock	1.5 1.5	9 18	2 Wind Farm Layout 3 Wind Farm Layout	3 3	379.2 20.4489068 3 377.4 19.82802096 3	2.1 3.2	1 1	9	1 2 1 3
370 233247.3 868780.8 378.6 13.08642989 6 371 233246.8 868789.3 378 12.22773827 6	0.1 378.5 0.1 377.9	1 rock 1 rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	377.7 9.86912501 4 377.4 2.222598624 4	0.9 0.6	1 1	12 12	2 4
372 233248.5 86880.8 376.2 13.01900617 6 373 233248.1 868811.4 375.7 14.20292638 6	0.1 376.1 0.3 375.4	1 rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	377.4 9.111787516 4 374.9 7.187449246 4	-1.2 0.8	1	12	2 4
373 233257.6 868810.8 374.6 14.19681547 6 375 233257.6 868799.2 376.6 14.00110269 6	0.4 374.2 0.1 376.5	1 rock 1 rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout 2 Wind Farm Layout	3	374.4 7.376828798 4 377.7 11.06098452 3	0.8 0.2 -1.1	1	12	2 4
375 233257.6 808799.2 376.6 14.00110269 6 376 233257.4 868789 377.4 12.38970312 6 377 233258.7 868779.7 378.5 12.95162145 6	0.1 5/6.5 0.2 377.2 0.1 378.4	1 rock 1 rock 1 rock	1.5 1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout 2 Wind Farm Layout	3	377.4 1.566917029 4 377 6.527098177 4	-1.1 0 1.5	1	12	2 4
377 233258.7 868779.7 378.5 12.95162145 6 378 233258.7 868769.6 379.8 13.00174643 6 379 233259 868758.8 380.9 13.07746183 6	0.1 378.4 0.1 379.7 0.5 380.4	1 rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout 2 Wind Farm Layout	3	377 6.527098177 4 379.2 12.70972869 3 379.2 9.25137401 4	1.5 0.6	1	9	1 2
380 233257.8 868748.7 381.9 12.69919708 6	0.6 381.3	1 sand and gravel 2 sand and gravel	1	12	2 Wind Farm Layout	3	379.2 16.00156923 3	2.7	1	9	1 2
381 233257.3 868737.9 382.8 12.73289294 6 382 233259.1 868727.6 383.6 13.14344565 6	0.5 382.3 0.2 383.4	1 sand and gravel 1 sand and gravel	1	6 6	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 25.49628029 3 379.2 34.5996015 3	3.6 4.4	1 1	9	1 2 2
383 233257.7 868717.2 384.4 11.60167133 6 384 233257.8 868705.9 384.9 11.94120324 6	0.4 384 0.3 384.6	1 rock 1 rock	1.5 1.5	9 9	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 44.96362648 3 379.2 56.00731467 3	5.2 5.7	1 1	9 9	1 2 2
385 233269.2 868709.2 384.1 12.48277805 6 386 233268.7 868720.3 382.8 14.92525953 6	0.1 384 0.1 382.7	1 rock 1 rock	1.5 1.5	9 9	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 51.80345059 3 379.2 40.70886132 3	4.9 3.6	1 1	9 9	1 2 2
387 233267 868732 381.8 16.30994624 8 388 233268.8 868739.7 381.3 16.75995038 8	0.5 381.3 1.0 380.3	1 rock 2 rock	1.5 1.5	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3 3	379.2 29.05839862 3 379.2 21.32639648 3	2.6 2.1	1 1	9 9	1 2 3
389 233267.4 868751.5 380 16.53526462 8 390 233269.2 868761.1 379.2 16.83913267 8	0.5 379.5 0.2 379	1 rock 1 sand and gravel	1.5 1	12 8	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 9.514996363 4 379.2 1.207231622 4	0.8	1 1	12 12	2 2 4
391 233266.3 868772.7 378.3 15.99691761 8 392 233266.9 868791.4 376.1 14.84809331 6	0.7 377.6 0.1 376	2 rock 1 rock	1.5 1.5	24	3 Wind Farm Layout 2 Wind Farm Layout	3	376.6 10.12087475 3 377.4 7.371412654 4	1.7 -1.3	1	9 12	1 3 4
393 233266.4 868801.1 374.9 14.31847962 6 394 233267.8 868810.6 373.5 14.21879635 6	0.5 374.4 0.1 373.4	1 rock 1 sand and gravel	1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	377 16.22799582 3 373.2 10.80075569 3	-2.1 0.3	1	9	1 2
395 233278.5 868810 372.9 15.11301659 8 396 233276.3 868797.6 374.3 15.62922668 8	0.8 372.15 0.8 373.55	2 rock	1.5	24	3 Wind Farm Layout 4 Wind Farm Layout	3	371.8 14.83622638 3 377 16.70713103 3	1.1 -2.7	1	9	1 3
397 233277 868787.9 375.6 15.81568796 8	0.1 375.5	1 clay	2	16	3 Wind Farm Layout	3	376.6 8.043415047 4 376.6 2.81799934 4	-1	1	12	2 6
399 233276.8 868768.9 377.2 17.18553839 8	0.4 376.8	1 clay	2	16	3 Wind Farm Layout 3 Wind Farm Layout	3	375.6 9.582326294 4	-0.4 1.6	1	12	2 6
400 233278.7 868757.5 378.2 17.28461009 8 401 233277.2 868748.5 379.3 17.28537763 8	0.4 377.8 0.3 379	1 clay 1 rock	1.5	16 12	3 Wind Farm Layout 2 Wind Farm Layout	3	379.2 11.30117035 3 379.2 15.50273405 3	-1 0.1	1 1	9	1 3 2
402 233278 868739.5 380.1 17.31515312 8 403 233278.7 868730 381 17.29622299 8	0.8 379.35 0.5 380.5	2 clay 1 rock	2 1.5	32 12	4 Wind Farm Layout 2 Wind Farm Layout	3	379.2 23.76285549 3 379.2 32.83319337 3	0.9 1.8	1 1	9 9	1 4 2
404 233277.2 868717.9 382.3 16.32895068 8 405 233276.2 868708.9 382.9 14.73111967 6	0.2 382.1 0.1 382.8	1 rock 1 rock	1.5 1.5	12 9	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 44.11920252 3 379.2 52.75940393 3	3.1 3.7	1 1	9	1 2 2
406 233287 868709.8 381.8 16.0248075 8 407 233285.8 868720.8 380.4 17.16334299 8	0.3 381.5 0.3 380.1	1 rock 1 clay	1.5 2	12 16	2 Wind Farm Layout 3 Wind Farm Layout	3	379.2 54.58974411 3 379.2 43.99878565 3	2.6 1.2	1 1	9 9	1 1
408 233289.3 868729.2 379.9 17.31858492 8 409 233286.6 868739.8 378.8 17.31259097 8	0.3 379.6 0.5 378.3	1 sand and gravel rock	1 1.5	8 12	2 Wind Farm Layout 2 Wind Farm Layout	3	379.2 38.30173116 3 379.2 28.1934363 3	0.7 -0.4	1 1	9 9	1 2 2
410 233289.8 868753.6 377.1 17.27119366 8 411 233289.7 868758.9 376.6 17.12579493 8	0.0 377.1 1.0 375.6	1 rock 2 sand and gravel	1.5 1	12 16	2 Wind Farm Layout 3 Wind Farm Layout	3	373.9 18.81328653 3 373.9 13.97523556 3	3.2 2.7	1 1	9 9	1 1
412 233289.4 868769.7 375.8 16.14019975 8 413 233287.9 868780.7 374.5 15.80788125 8	0.1 375.7 0.1 374.4	1 sand and gravel 1 sand and gravel	1 1	8	2 Wind Farm Layout 2 Wind Farm Layout	3 3	374.6 4.089232624 4 374.9 5.545934675 4	1.2 -0.4	1 1	12 12	2 2 4
414 233287 868789.1 374.1 15.78312522 8 415 233287.1 868801.7 372.3 15.70716356 8	0.1 374 0.2 372.1	1 sand and gravel 1 sand and gravel	1 1	8	2 Wind Farm Layout 2 Wind Farm Layout	3 3	375.6 12.90729701 3 376.4 24.60875129 3	-1.5 -4.1	1 1	9 9	1 2 2
416 233288.7 868812.3 371 15.73615744 8 417 233298.3 868809.2 370.2 16.89506801 8	1.3 369.75 1.3 368.95	2 rock 2 sand and gravel	1.5	24 16	3 Wind Farm Layout 3 Wind Farm Layout	3	370.3 15.84689249 3 369.2 21.81873941 3	0.7	1	9	1 3
418 233300 868798.8 370.7 17.90097584 8 419 233297.1 868789.3 372.5 15.77876892 8	0.4 370.3 0.1 372.4	1 clay 1 sand and gravel	2	16	3 Wind Farm Layout 2 Wind Farm Layout	3	375.4 26.91457195 3 374.6 16.93872046 3	-4.7 -2.1	1	9	3
420 233297.2 868779.5 373.5 15.63724621 8 421 233298.8 868769.2 374.3 15.55603955 8	0.1 373.4 0.8 373.55	1 rock 2 sand and gravel	1.5	12 16	2 Wind Farm Layout 3 Wind Farm Layout	3	374.6 7.982135054 4 373.9 0.984778756 4	-1.1 0.4	1	12	2 4
422 233298.1 868758.7 375.2 16.52366527 8	0.9 374.3	2 rock	1.5	24	3 Wind Farm Layout	3	373.7 10.93815491 3	1.5	1	9	1 3
423 233299.2 868748.5 376.1 17.22120303 8 424 233298.1 868738.7 377.2 17.30338391 8 425 233298.6 868729.2 378 17.33544086 8	0.1 376 0.8 376.45 0.1 377.9	1 sand and gravel 2 sand and gravel	1	16	2 Wind Farm Layout 3 Wind Farm Layout	3	373 19.96104829 3 373 29.45439833 3	3.1 4.2	1	9	1 3
426 233296.8 868720.4 378.6 17.32831333 8	0.3 378.3	1 sand and gravel 1 sand and gravel	1	8	2 Wind Farm Layout 2 Wind Farm Layout Wind Farm Layout	3	372.8 38.01546408 3 372.8 46.87019826 3	5.2 5.8	1	9	1 2
428 233307 868710.4 378.3 17.07105715 8	0.3 380 0.4 377.9	1 sand and gravel 1 sand and gravel	1	8	2 Wind Farm Layout 2 Wind Farm Layout	3	372.4 57.3849677 3 372.4 52.2299935 3	7.9 5.9	1	9	1 2
429 233307.2 868720.1 377.1 17.32186904 8 430 233309.2 868730.8 376 16.53328796 8	0.5 376.6 0.8 375.25	1 sand and gravel 2 sand and gravel	1	16	2 Wind Farm Layout 3 Wind Farm Layout	3	372.4 43.13189822 3 372.4 32.49014238 3	4.7 3.6	1	9	1 2
431 233308 868740.9 375 16.96225702 8 432 233309 868750 374.2 14.84393737 6	0.8 374.25 0.8 373.45	2 sand and gravel 2 sand and gravel	1	16 12	3 Wind Farm Layout 2 Wind Farm Layout	3	372.6 23.57783373 3 372.8 14.84587579 3	2.4 1.4	1	9	1 2
433 233306.1 868759.9 373.8 14.22568937 6 434 233308 868771.2 372.6 12.2515368 6	0.3 373.5 0.4 372.2	1 rock 1 rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	373 6.753570845 4 373 4.420004897 4	0.8 -0.4	1 1	12 12	2 4 4
435 233307.3 868781.6 371.8 15.8076503 8 436 233305.3 868791.9 370.4 19.75777722 8	0.3 371.5 0.2 370.2	1 rock 1 rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	373.7 13.710716 3 373.9 22.49679497 3	-1.9 -3.5	1 1	9	1 2 2
437 233308.2 868800.1 368.8 19.87715978 8 438 233310.2 868803.7 368.1 19.59851564 8	0.1 368.7 0.2 367.9	1 rock 1 sand and gravel	1.5 1	12 8	2 Wind Farm Layout 2 Wind Farm Layout	3	373.9 31.18795273 3 367.8 30.82028286 3	-5.1 0.3	1	9 9	1 2 2
439 233339.9 868782.4 369 13.72788848 6 440 233344.9 868756.4 371.2 14.12282612 6	0.1 368.9 0.3 370.9	1 sand and gravel rock	1 1.5	6 9	2 Wind Farm Layout 2 Wind Farm Layout	3	372.4 26.88957615 3 371.6 4.780295561 4	-3.4 -0.4	1 1	9 12	2 4
441 233344.7 868731.3 373.2 14.93679792 6 442 233394.2 868709.9 368.8 10.90118678 6	0.1 373.1 1.1 367.7	1 sand and gravel 2 sand and gravel	1 1	6 12	2 Wind Farm Layout 2 Wind Farm Layout	3	370.8 18.51299789 3 367.1 19.44862204 3	2.4 1.7	1 1	9 9	1 2 1 2
443 233407.6 868726.2 367.3 5.122663914 4 444 233420.9 868747.8 366.7 6.362971433 4	1.0 366.3 0.4 366.3	2 sand and gravel 1 rock	1 1.5	8	2 Wind Farm Layout 2 Wind Farm Layout	3 3	367.3 0.348582919 4 367.7 24.97172433 3	0 -1	1 1	12 9	2 1
445 233455.6 868732.2 366.7 8.256069884 6 446 233448.8 868713.3 367.4 3.89847556 2	0.2 366.5 0.1 367.3	1 rock 1 rock	1.5 1.5	9 3	2 Wind Farm Layout 1 Wind Farm Layout	3	367.4 19.94816887 3 367.4 0.121679793 4	-0.7 0	1	9 12	1 2 2
447 233439.5 868689.7 368.1 3.836729215 2 448 233496.4 868673.9 365.3 7.561710126 4	0.1 368 0.7 364.6	1 rock 2 sand and gravel	1.5 1	3	1 Wind Farm Layout 2 Wind Farm Layout	3	367.4 25.45300291 3 365.7 30.44782961 3	0.7 -0.4	1 1	9 9	1 1 2
449 233515.9 868735.2 361 11.39660024 6	0.1 364.3 1.5 359.5	1 clay	2	8 18	2 Wind Farm Layout 3 Water Feature Minor	3	364.5 2.023404446 4 359.6 28.37311619 3	-0.1 1.4	1	12 18	2 4
450 233515.9 808735.2 361 11.39b60024 b 451 233562.6 868727 360.4 18.70953485 1 452 233548.8 868703.8 361.4 1.656401291 1	1.5 359.5 3.2 357.2 2.7 358.7	2 rock 3 rock	1.5 1.5 1.5	18 4.5 4.5	3 Water Feature Minor 1 Water Feature Minor 1 Wind Farm Layout	6	359.6 28.3/311619 3 359.9 18.05910557 3 361.4 1.185309884 4	1.4 0.5	1	18	2 2
453 233543.4 868660.5 362.7 5.560196402 4	0.1 362.6	1 sand and gravel	1	4.5	1 Wind Farm Layout	3	361.7 42.29301874 3	1	1	12 9	1 1
454 233592.4 868656.9 360.7 3.135978243 2 455 233596.7 868702 359.9 2.080370577 2	2.8 357.9 2.0 357.9	3 rock 3 rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	359.9 44.22416939 3 359.9 0.949160337 4	0.8	1	9 12	2 4
456 233614.3 868733.9 360.7 6.753152252 4 457 233661.7 868727.9 360.7 5.64591536 4	1.0 359.7 1.8 358.9	2 rock 3 rock	1.5 1.5	12 18	2 Wind Farm Layout 3 Wind Farm Layout	3	360.2 33.29237168 3 360.3 27.23411815 3	0.5 0.4	1	9	1 1 3
458 233660.5 868700.1 360.3 5.01882849 4 459 233654.7 868671 360.1 3.91361883 2	1.0 359.3 0.1 360	2 rock 1 rock	1.5 1.5	12 3	2 Wind Farm Layout 1 Wind Farm Layout	3	360.3 0.509230253 4 360.5 29.62315925 3	0 -0.4	1 1	12 9	2 1
460 233741.7 868700.3 359.9 1.284063473 1 461 233754.5 868731 359.8 1.228745398 1	0.2 359.7 0.6 359.2	1 rock 2 rock	1.5 1.5	1.5 3	1 Wind Farm Layout 1 Wind Farm Layout	3	359.9 0.395423624 4 359.5 30.30341198 3	0 0.3	1 1	12 9	2 1
462 233967.6 868761.9 348.6 6.630175408 4 463 233965.8 868775.2 348.9 6.627201036 4	1.0 347.6 2.0 346.9	2 rock 3 sand and gravel	1.5 1	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	348.5 19.41503144 3 347.8 32.43219182 3	0.1 1.1	1 1	9	1 1 2
464 233967.4 868781.5 349 6.627245153 4 465 233966.3 868789.6 348.9 6.636784083 4	2.0 347 1.8 347.1	3 sand and gravel 3 clay	1 2	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3 3	347.5 37.74817383 3 347.5 45.70089228 3	1.5 1.4	1 1	9	1 1 2
466 233967 868802.8 348 6.931844983 4 467 233970 868814 348.4 5.408860292 4	2.0 346 1.6 346.8	3 rock 3 rock	1.5 1.5	18 18	3 Wind Farm Layout 3 Wind Farm Layout	3 3	345.9 55.08357821 3 346.2 56.45757284 3	2.1 2.2	1 1	9	1 1 3
468 233980 868807.5 347.6 4.051865597 4 469 233987.7 868808 347.3 4.169979041 4	2.3 345.35 1.8 345.5	3 rock 3 rock	1.5 1.5	18 18	3 Wind Farm Layout 3 Wind Farm Layout	3	346.2 43.8958121 3 346.2 37.8557776 3	1.4	1 1	9	1 1 3
470 233998.2 868806.6 347.1 4.461512078 4 471 234008.2 868807.3 347 4.534389539 4	1.6 345.5 1.0 346	3 rock 2 rock	1.5 1.5	18 12	3 Wind Farm Layout 2 Wind Farm Layout	3	346.3 27.58192025 3 346.2 18.51761489 3	0.8	1	9	1 3
472 234018.9 86807.6 346.7 4.547876167 4 473 23403.0.2 86881.0.4 346.1 5.594791219 4	1.0 345.7 1.0 345.1	2 rock 2 rock	1.5 1.5	12 12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	346.2 8.723323856 4 346.4 0.709476557 4	0.5 -0.3	1	12 17	2 4
473 234030.2 868810.4 340.1 5.594/91219 4 474 234040.4 868806.9 345.3 9.683887811 6 475 234051.8 868807 344.3 10.87593981 6	1.0 345.1 1.1 344.2 1.1 343.2	2 sand and gravel 2 rock	1 1 1.5	12 12 18	2 Wind Farm Layout 2 Wind Farm Layout 3 Wind Farm Layout	3	346.4 11.52628713 3 346.2 22.01891692 3	-0.5 -1.1 -1.9	1	9	1 2
200733304	3-3.1		2.3		······· unit capout				-		

476 234060.7 868807.6 343.3 11.37629482 6	0.7 342.6 2	rock	1.5	18	3 Wind Farm Layout	3	346.2 30.05983286 3	-2.9	1	9	1 3
477 234059.2 868799.4 343.6 11.40174311 6 478 234056 868789.7 343.3 11.28816503 6	1.0 342.6 2 1.1 342.2 2	clay	2 2	24 24	3 Wind Farm Layout 3 Wind Farm Layout	3	346.4 31.76557805 3 346.2 32.36536716 3	-2.8 -2.9	1 1	9	1 3 3
479 234056.4 868780.3 343.2 10.98827777 6	0.8 342.45 2	rock	1.5	18	3 Wind Farm Layout	3	346.2 36.25661124 3	-3	1	9	1 3
480 234058.6 868770.1 342.9 10.93158601 6 481 234058.4 868758.9 341.7 10.93212187 6	0.6 342.3 2 0.3 341.4 1	sand and gravel sand and gravel	1	6	2 Wind Farm Layout 2 Wind Farm Layout	3	346.2 42.14695222 3 345.6 46.12172791 3	-3.3 -3.9	1	9	1 2 2
482 234048 868758.9 343 11.04499553 6 483 234047 868768.3 343.9 10.98370622 6	0.6 342.4 2 0.9 343 2	sand and gravel	1 1.5	12	2 Wind Farm Layout 3 Wind Farm Layout	3	345.7 36.50654342 3 345.9 32.06793873 3	-2.7	1	9	1 2
484 234048.5 868780.3 344.3 10.9797263 6	1.0 343.3 2	sand and gravel	1	12	2 Wind Farm Layout	3	346.2 28.90391513 3	-1.9	1	9	1 2
485 234049.2 868790.4 344.5 11.29873604 6 486 234048.8 868800.8 344.7 11.07620274 6	1.0 343.5 2 1.0 343.7 2	sand and gravel sand and gravel	1 1	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	346.2 25.78973172 3 346.3 21.55640352 3	-1.7 -1.6	1	9	1 2 2
487 234036.6 868799.6 345.4 9.200290333 6	1.5 343.9 2	sand and gravel	1	12	2 Wind Farm Layout	3	346.2 10.68419628 3	-0.8	1	9	1 2
488 234025.8 868799.7 346.1 4.609746405 4 489 234016.3 868798.7 346.4 4.524273029 4	1.0 345.1 2 0.6 345.8 2	sand and gravel clay	2	8 16	2 Wind Farm Layout 3 Wind Farm Layout	3	346.1 0.608555116 4 346.3 7.771519003 4	0.1	1	12	2 6
490 234007.8 868799.9 346.7 4.397744966 4 491 233995.7 868797.8 347 4.257861498 4	0.6 346.1 2 0.8 346.25 2	sand and gravel sand and gravel	1	8	2 Wind Farm Layout 2 Wind Farm Layout	3	346.2 16.16433461 3 346 26.60784977 3	0.5	1	9	1 2
492 233988.4 868801.1 347.1 4.240345351 4	1.5 345.6 2	rock	1.5	12	2 Wind Farm Layout	3	346 34.59039998 3	1.1	i	9	1 2
493 233988.6 868789.3 347.6 4.336729172 4 494 233975.4 868796.9 347.6 5.615481605 4	1.5 346.1 2 1.3 346.35 2	rock sand and gravel	1.5 1	12 8	2 Wind Farm Layout 2 Wind Farm Layout	3	345.6 29.93090461 3 345.9 45.10984579 3	2 1.7	1 1	9	1 2 2
495 233978.4 868788.5 348.4 6.059125183 4	2.5 345.9 3	sand and gravel rock	1 1.5	12	2 Wind Farm Layout	3	345.8 37.98826339 3 347.1 32.41702106 3	2.6	1	9	1 2
497 233977.6 868768.4 348.2 6.627250671 4	1.1 347.1 2	rock	1.5	12	2 Wind Farm Layout 2 Wind Farm Layout	3	347.1 21.76977357 3	1.1	1	9	1 2
498 233976.2 868759.1 347.9 6.658978419 4 499 233978.4 868749.2 347.8 6.84202553 4	1.3 346.65 2 0.3 347.5 1	sand and gravel sand and gravel	1 1	8 4	2 Wind Farm Layout 1 Wind Farm Layout	3	347.5 13.61693733 3 347.8 3.630991398 4	0.4 0	1	9 12	1 2 2
500 233989 868768.5 347.6 6.118918947 4	1.3 346.35 2 2.0 342 3	sand and gravel	1	8	2 Wind Farm Layout 3 Wind Farm Layout	3	346.5 17.62580551 3 345.7 21.69417043 3	1.1 -1.7	1	9	1 2
502 233998.3 868788.6 346.7 4.273481618 4	1.0 345.7 2	sand and gravel rock	1.5	18 12	2 Wind Farm Layout	3	345.9 20.72509643 3	-1.7	1	9	1 3 2
503 233995.3 868779.1 347.1 4.301158152 4 504 234000.1 868770.7 346.4 4.39996122 4	2.0 345.1 3 2.8 343.65 3	sand and gravel sand and gravel	1	12	2 Wind Farm Layout 2 Wind Farm Layout	3	345.8 18.96654358 3 345.8 10.04811649 3	1.3	1	9	1 2
505 233996.7 868758.5 346.7 6.351541524 4	1.6 345.1 3	rock	1.5	18	Wind Farm Layout	3	346.5 5.504957238 4	0.2	i	12	2 6
506 233987.3 868760.9 347.4 6.694561878 4 507 234008.3 868758.1 345.9 6.569179561 4	0.9 346.5 2 2.1 343.8000001 3	sand and gravel rock	1 1.5	8 18	2 Wind Farm Layout 3 Wind Farm Layout	3	346.8 11.18122846 3 345.9 0.077737678 4	0.6 0	1 1	9 12	1 2
508 234009.5 868747.8 345.6 7.101953332 4 509 234019.7 868752 345.1 6.544220045 4	2.0 343.6 3 1.1 344 2	sand and gravel sand and gravel	1	12	2 Wind Farm Layout 2 Wind Farm Layout	3	345.9 9.191533186 4 345.9 12.81181768 3	-0.3 -0.8	1	12	2 4
510 234017.1 868759 345.3 6.52009983 4	1.1 344.2 2	sand and gravel	1	8	2 Wind Farm Layout	3	345.9 7.767051031 4	-0.6	i	12	2 4
511 234028.6 868758.2 344.6 6.53681691 4 512 234038.2 868759.7 343.8 8.66510174 6	0.1 344.5 1 0.6 343.2 2	sand and gravel sand and gravel	1	4 12	1 Wind Farm Layout 2 Wind Farm Layout	3	345.8 18.68928952 3 345.8 27.07050188 3	-1.2 -2	1	9	1 1 2
513 234039.1 868769.6 344.5 9.780843652 6 514 234029.7 868767.1 344.8 6.667847288 4	0.5 344 1 0.1 344.7 1	rock rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	345.6 24.23109651 3 345.7 16.42165286 3	-1.1 -0.9	1	9	1 2
515 234017 868769.3 345.4 6.218795119 4	0.1 345.3 1	clay	2	8	2 Wind Farm Layout	3	345.7 3.814001112 4	-0.3	1	12	2 4
516 234008.1 868768.7 345.8 5.214291032 4 517 234005.8 868783.8 346.2 4.233808491 4	1.9 343.9 3 0.3 345.9 1	sand and gravel rock	1 1.5	12 6	2 Wind Farm Layout 2 Wind Farm Layout	3	345.8 2.888562674 4 345.6 12.01079518 3	0 0.6	1 1	12 9	2 4 2
518 234008.5 868789.7 346.5 4.223999006 4 519 234018.2 868788.3 346.2 4.19642202 4	0.6 345.9 2 0.1 346.1 1	clay	2 1.5	16	3 Wind Farm Layout 2 Wind Farm Layout	3	346.2 11.6686461 3 346 2.127483173 4	0.3 0.2	1	9	1 3
520 234030.9 868787.1 345.5 6.688164057 4	0.8 344.75 2	sand and gravel	1	8	2 Wind Farm Layout	3	346.2 10.08884367 3	-0.7	1	9	1 2
521 234038.3 868787.5 345.1 10.71381161 6 522 234049.6 868788.9 344.4 11.22749287 6	0.8 344.35 2 0.9 343.5 2	sand and gravel sand and gravel	1 1	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	346.2 16.75989322 3 346.3 26.81014465 3	-1.1 -1.9	1	9	1 2 2
523 234035.9 868779.2 344.9 9.324540554 6 524 234025.8 868779.6 345.4 5.771320908 4	0.3 344.6 1 0.5 344.9 1	sand and gravel sand and gravel	1	6	2 Wind Farm Layout 1 Wind Farm Layout	3	346.2 17.70172639 3 345.9 8.087399265 4	-1.3 -0.5	1	9	1 2
525 234016.3 868777.8 345.6 4.799063297 4	0.1 345.5 1	sand and gravel	1	4	1 Wind Farm Layout	3	345.6 0.032962874 4	0	1	12	2 2
526 234047.5 868855.6 346.1 4.111827932 4 527 234024.9 868852.9 346.6 4.166988975 4	1.0 345.1 2 1.0 345.6 2	sand and gravel sand and gravel	1	8 8	2 Wind Farm Layout 2 Wind Farm Layout	3 3	346.1 0.171781133 4 345.8 20.05623431 3	0 0.8	1	12 9	1 2 2
528 234067.4 868855.4 345 5.251182279 4 529 234083.5 868901.9 345.4 8.305305265 6	0.8 344.25 2 0.8 344.65 2	rock	1.5	12	2 Wind Farm Layout 3 Wind Farm Layout	3	346.3 18.44575744 3 346.8 24.6110466 3	-1.3 -1.4	1	9	1 2
530 234058 868905.9 346.8 4.943972188 4	0.6 346.2 2	clay sand and gravel	1	24 8	2 Wind Farm Layout	3	346.8 1.132820117 4	0	1	12	2 4
531 234034.9 868906.9 347.8 5.713102809 4 532 234039.9 868957.1 348.4 5.682751894 4	1.0 346.8 2 1.3 347.15 2	clay rock	2 1.5	16 12	3 Wind Farm Layout 2 Wind Farm Layout	3 3	346.7 24.01155973 3 346.1 25.22053498 3	1.1 2.3	1	9	1 1
533 234064 868961.1 346.4 4.491012349 4	1.0 345.4 2	sand and gravel	1	8	2 Wind Farm Layout	3	346.4 1.025631795 4	0	1	12	2 4
534 234089.4 868957.9 344.4 8.232892438 6 535 234084.4 869005.6 346.6 5.344141718 4	2.0 344.6 3	sand and gravel clay	2	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3	346.1 24.32309796 3 347.7 21.06810499 3	-1.7 -1.1	1	9	1 1 2
536 234061.5 869009 347.9 9.473212504 6 537 234037.2 869007.5 349 3.305593103 2	2.3 345.65 3 2.3 346.75 3	rock rock	1.5 1.5	27 0	3 Wind Farm Layout 2 Wind Farm Layout	3	347.9 1.723922692 4 347.9 26.00597621 3	0	1	12	2 6
538 234027 869057 350.2 4.092121441 4	1.8 348.45 3	rock	1.5	18	3 Wind Farm Layout	3	349.8 27.97246623 3	0.4	i	9	1 3
539 234055.9 869057.3 349.5 3.530566711 2 540 234082.2 869056.2 348.4 9.109985587 6	3.0 346.5 3 2.6 345.8000001 3	rock rock	1.5 1.5	9 27	2 Wind Farm Layout 3 Wind Farm Layout	3	349.5 0.487970609 4 349.4 26.21833872 3	0 -1	1 1	12 9	1 4 3
541 234065.9 869104.3 349.6 4.430921583 4 542 234043.8 869105.2 350.5 4.347881928 4	2.4 347.1999999 3 2.5 348 3	sand and gravel sand and gravel	1	12	2 Wind Farm Layout 2 Wind Farm Layout	3	350.2 18.83748085 3 350.3 3.061122224 4	-0.6 0.2	1	9	1 2
543 234020.3 869105.3 351.3 4.323475903 4	2.5 348.8 3	sand and gravel	1	12	2 Wind Farm Layout	3	350.3 26.47271496 3	1	1	9	1 2
544 234018.9 869156.4 352.8 4.36459204 4 545 234047.2 869152.8 351.4 4.329185727 4	2.4 350.3999999 3 2.4 348.9999999 3	sand and gravel sand and gravel	1	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	351.8 24.13343993 3 351.6 3.78936722 4	1 -0.2	1	9 12	1 2 4
546 234073 869152.8 350.8 4.558846248 4 547 234068.5 869208.4 353.6 4.894730851 4	2.0 348.8 3 0.2 353.4 1	sand and gravel	1	12	2 Wind Farm Layout 2 Wind Farm Layout	3	351.6 29.54537657 3	-0.8	1	9	1 2
548 234042.1 869207.9 354 4.588025578 4	0.6 353.4 2	sand and gravel	1	8	2 Wind Farm Layout	3	354.1 2.73151794 4	-0.5 -0.1	1	12	2 4
549 234018.9 869203.1 354 4.283303528 4 550 234048 869258.4 355.9 4.048558998 4	2.0 352 3 0.3 355.6 1	clay	2 2	24 8	3 Wind Farm Layout 2 Wind Farm Layout	3	353.8 20.78792899 3 356.4 13.98163342 3	0.2 -0.5	1 1	9	1 3 2
551 234056.5 869256.5 355.6 4.25214095 4 552 234066.5 869258.4 355.1 5.265953258 4	0.3 355.3 1 0.3 354.8 1	rock	1.5	6	2 Wind Farm Layout	3	356.1 22.04633586 3 356.1 32.16518602 3	-0.5	1	9	1 2
553 234079.7 869258.8 354.6 5.670953079 4	0.3 354.3 1	clay	2	8	2 Wind Farm Layout 2 Wind Farm Layout	3	356.1 45.24267643 3	-1	1	9	1 2
554 234089.2 869256.7 353.9 6.921953709 4 555 234087.9 869270.8 354.1 5.429451492 4	0.6 353.3 2 0.4 353.7 1	clay	2	16 8	3 Wind Farm Layout 2 Wind Farm Layout	3	355.9 54.15908085 3 356.5 55.54596091 3	-2 -2.4	1	9	1 3
556 234074.9 869270.6 355.1 5.266350887 4	0.8 354.35 2	rock	1.5	12	2 Wind Farm Layout	3	356.5 42.76150596 3	-1.4	î	9	1 2
557 234066.7 869269.4 355.2 5.278355289 4 558 234054.8 869267.1 356.1 5.162011163 4	0.8 354.45 2 0.4 355.7 1	clay	2 2	16 8	3 Wind Farm Layout 2 Wind Farm Layout	3	356.5 34.38533348 3 356.5 22.33025556 3	-1.3 -0.4	1	9	1 3 2
559 234044.5 869268.9 356.3 4.063950159 4 560 234033.5 869255.2 356.4 3.976073841 2	0.2 356.1 1 0.3 356.1 1	clay	2	8	2 Wind Farm Layout 1 Wind Farm Layout	3	356.6 12.57533737 3 356.4 0.85697761 4	-0.3	1	9	1 2
561 234034.4 869260.1 356.5 3.85468603 2	0.4 356.1 1	clay	2	4	1 Wind Farm Layout	3	356.4 0.962249525 4	0.1	i	12	2 2
562 234025.6 869267.8 356.8 2.818598075 2 563 234016.7 869268 356.9 2.726729402 2	0.8 356.05 2 1.0 355.9 2	clay clay	2 2	8 8	2 Wind Farm Layout 2 Wind Farm Layout	3	356.6 6.215760295 4 356.8 14.96854867 3	0.2 0.1	1	12 9	1 4 2
564 234007.7 869260.9 356.5 2.878455723 2 565 233998.9 869258.6 356.1 3.549453358 2	0.8 355.75 2 0.8 355.35 2	clay	2	8	2 Wind Farm Layout 2 Wind Farm Layout	3	356.6 25.11336059 3 356.5 34.16396016 3	-0.1 -0.4	1	9	1 2
566 233987.2 869258.3 356 3.597371028 2	1.0 355 2	sand and gravel	1	4	1 Wind Farm Layout	3	356.6 45.73659974 3	-0.6	1	9	1 1
567 233985.8 869268.2 356.3 3.717359285 2 568 233989 869279.1 356.5 3.058843202 2	1.3 355.05 2 1.0 355.5 2	sand and gravel sand and gravel	1	4	1 Wind Farm Layout 1 Wind Farm Layout	3	356.9 45.23257394 3 357.2 40.09424172 3	-0.6 -0.7	1 1	9	1 1 1
569 233988.7 869289.7 356.8 2.888968591 2 570 233989.5 869302.6 357.2 2.799212984 2	1.0 355.8 2 1.1 356.1 2	sand and gravel sand and gravel	1	4	1 Wind Farm Layout 1 Wind Farm Layout	3	357.3 38.34100376 3 357.5 35.24195043 3	-0.5 -0.3	1	9	1 1
571 233986.2 869307.6 357.3 2.794126338 2	0.8 356.55 2	sand and gravel	1	4	1 Wind Farm Layout	3	357.6 37.52890312 3	-0.3	1	9	1 1
572 233987.5 869322.4 357.7 1.773028411 1 573 233998.5 869320.3 357.9 1.712226081 1	0.8 356.95 2 1.0 356.9 2	sand and gravel sand and gravel	1	2 2	1 Wind Farm Layout 1 Wind Farm Layout	3	357.7 33.42288393 3 357.7 22.99009412 3	0 0.2	1 1	9	1 1 1
574 233996.7 869309.8 357.5 2.17025353 2 575 233999.9 869299.5 357.3 2.675851827 2	1.0 356.5 2 1.0 356.3 2	rock sand and gravel	1.5	6	2 Wind Farm Layout 1 Wind Farm Layout	3	357.6 26.77387298 3 357.5 25.52297573 3	-0.1 -0.2	1	9	1 2
576 233997.4 869289.5 357 2.727207793 2	0.8 356.25 2	sand and gravel	1	4	1 Wind Farm Layout	3	357.3 29.89799954 3	-0.3	1	9	1 1
577 233992.8 869279.2 356.6 2.970642298 2 578 233998.9 869266.9 356.5 3.099059281 2	1.0 355.6 2 1.0 355.5 2	sand and gravel sand and gravel	1	4	1 Wind Farm Layout 1 Wind Farm Layout	3	357.2 36.30614909 3 356.8 32.63315668 3	-0.6 -0.3	1	9	1 1
579 234011.4 869269.2 356.8 2.754634769 2 580 234039.6 869318.3 357.3 2.859453577 2	1.0 355.8 2 1.1 356.2 2	sand and gravel sand and gravel	1	4	1 Wind Farm Layout 1 Wind Farm Layout	3	356.8 19.90095705 3 357.3 12.87115798 3	0	1	9	1 1
581 234009.2 869288.3 357.2 2.791004489 2 582 234008.4 869279 357 2.799987793 2	1.0 356.2 2 1.0 356 2	sand and gravel sand and gravel	1	4	1 Wind Farm Layout 1 Wind Farm Layout	3	357.3 18.49628474 3 357.2 21.04866364 3	-0.1 -0.2	1	9	1 1
583 234008.1 869301.6 357.6 2.037935817 2	1.3 356.35 2	sand and gravel	1	4	1 Wind Farm Layout	3	357.5 17.12705118 3	0.1	1	9	1 1
584 234008 869309.1 357.7 1.728821509 1 585 234008.8 869321.8 357.9 1.706699826 1	0.8 356.95 2 1.0 356.9 2	sand and gravel sand and gravel	1	2 2	1 Wind Farm Layout 1 Wind Farm Layout	3	357.6 15.77987362 3 357.7 12.60202065 3	0.1 0.2	1	9	1 1 1
586 234018 869318 357.7 1.711892898 1 587 234028 869317.2 357.5 2.312519722 2	1.0 356.7 2 1.0 356.5 2	clay sand and gravel	2	4	1 Wind Farm Layout 1 Wind Farm Layout	3	357.6 4.303769934 4 357.6 5.322891549 4	0.1 -0.1	1	12 12	2 2 2
588 234048.6 869318.8 357.1 2.965957867 2	0.8 356.35 2	sand and gravel	1	4	1 Wind Farm Layout	3	357.3 17.94735603 3	-0.2	1	9	1
589 234058 869321.4 356.6 3.528308912 2 590 234068 869317.8 355.9 5.183051704 4	1.0 355.6 2 0.6 355.3 2	clay rock	2 1.5	8 12	2 Wind Farm Layout 2 Wind Farm Layout	3	357.3 26.81059725 3 357.3 34.11964412 3	-0.7 -1.4	1	9	1 2 2
591 234079.2 869318.1 355.3 6.611575103 4 592 234088.2 869318.1 354.7 6.617434011 4	0.6 354.7 2 0.8 353.95 2	sand and gravel sand and gravel	1	8 8	2 Wind Farm Layout 2 Wind Farm Layout	3	357.3 44.82738133 3 357.3 53.55251993 3	-2 -2.6	1	9	1 2
593 234091.1 869308.8 354.4 6.601376202 4 594 234086.7 869298.9 354.7 6.452393857 4	1.0 353.4 2 0.8 353.95 2	sand and gravel sand and gravel	1	8	2 Wind Farm Layout 2 Wind Farm Layout	3	357.3 55.16099408 3 357.3 51.17282813 3	-2.9 -2.6	1	9	1 2
595 234087 869290.7 354.6 6.251680563 4	0.8 353.85 2	sand and gravel	1	8	2 Wind Farm Layout	3	357.3 53.27354912 3	-2.7	1	9	1 2
596 234088.6 869280.2 354.4 5.587255429 4 597 234077.7 869279 354.9 5.518681374 4	0.4 354 1 0.8 354.15 2	sand and gravel sand and gravel	1	4 8	1 Wind Farm Layout 2 Wind Farm Layout	3	356.6 57.9473833 3 356.8 47.01272838 3	-2.2 -1.9	1	9	1 1 2
598 234078.1 869290.5 355.2 6.181819435 4	0.5 354.7 1	clay	2	8	2 Wind Farm Layout	3	357.3 44.84955288 3	-2.1	i	9	1 2
599 234078.6 869299.3 355.2 6.237333758 4 600 234076.3 869310.7 355.3 6.447727994 4	0.8 354.45 2 0.8 354.55 2	sand and gravel sand and gravel	1	8	2 Wind Farm Layout 2 Wind Farm Layout	3	357.3 43.15441568 3 357.3 40.57928343 3	-2.1 -2	1	9	1 2 2
601 234068.8 869311.5 355.9 5.307750802 4 602 234059.1 869312.6 356.5 3.030769138 2	0.8 355.1 2 0.8 355.7 2	sand and gravel sand and gravel	1 1	8 4	2 Wind Farm Layout 1 Wind Farm Layout	3	357.3 33.26363008 3 357.3 24.05900344 3	-1.4 -0.8	1	9	1 2 1
603 234047.5 869308.3 356.9 2.835937434 2	0.8 356.1 2	sand and gravel	1	4	1 Wind Farm Layout	3	357.3 11.72871661 3	-0.4	1	9	1 1
604 234039.2 869308.5 357.3 2.81737494 2 605 234028.4 869307.4 357.5 2.067787989 2	1.0 356.3 2 1.1 356.4 2	sand and gravel sand and gravel	1	4	1 Wind Farm Layout 1 Wind Farm Layout	3	357.3 4.079600185 4 357.5 3.950130197 4	0	1	12 12	2 2
606 234017.8 869308.9 357.6 1.74129842 1 607 234016.6 869300.8 357.5 1.770260405 1	1.0 356.6 2 1.0 356.5 2	sand and gravel sand and gravel	1	2	1 Wind Farm Layout 1 Wind Farm Layout	3	357.6 6.219217602 4 357.4 8.874273682 4	0 0.1	1	12 12	2 2 2
608 234016.1 869289.7 357.3 2.599722797 2	0.7 356.6 2	sand and gravel	1	4	1 Wind Farm Layout	3	357.3 11.48980551 3	0	1	9	1 1
609 234017.1 869280.1 357.2 2.788917778 2 610 234036.2 869277.7 356.8 2.645926143 2	1.0 356.2 2 0.5 356.3 1	sand and gravel sand and gravel	1	2	1 Wind Farm Layout 1 Wind Farm Layout	3	357.2 12.30224738 3 356.9 6.058256369 4	0 -0.1	1	9 12	1 2
611 234026.1 869280.2 357.2 2.634694206 2 612 234058 869277 356.2 5.50481673 4	0.8 356.45 2 0.6 355.6 2	sand and gravel sand and gravel	1	4 8	1 Wind Farm Layout 2 Wind Farm Layout	3 3	357.2 3.395840978 4 356.8 27.32117743 3	0 -0.6	1 1	12 9	2 2
613 234043.6 869281.1 356.8 4.291049127 4	0.5 356.3 1	sand and gravel	1	4	1 Wind Farm Layout	3	357.1 13.92349595 3	-0.3	1	9	1
614 234137 869410.3 348.2 9.036783917 6 615 234058.1 869289.9 356.3 6.041592546 4	0.4 347.8 1 0.5 355.8 1	sand and gravel sand and gravel	1 1	4	2 Wind Farm Layout 1 Wind Farm Layout	3	357.6 132.1487045 3 357.3 27.36255615 3	-9.4 -1	1	9	1 1
616 233998.2 869457.5 353.6 6.273960728 4 617 233983.3 869453.2 354.7 6.248864662 4	1.0 352.6 2 0.8 353.95 2	rock sand and gravel	1.5	12	2 Wind Farm Layout 2 Wind Farm Layout	3	354.7 14.89423846 3 354.7 0.563474609 4	-1.1 0	1	9	1 2
618 233968.3 869438.7 356.5 6.503082005 4	0.8 355.75 2	sand and gravel	1	8	2 Wind Farm Layout	3	354.8 19.92069131 3	1.7	1	9	1 2
619 233056.9 868391.6 402.9 8.460345519 6 620 233042.2 868362.8 403.6 10.21990395 6	2.0 400.9 3 0.3 403.3 1	rock rock	1.5 1.5	9	3 Wind Farm Layout 2 Wind Farm Layout	3	403.6 0.918338955 4	1.3 0	1	12	2 3 4
621 233026.7 868386.3 406 14.48151174 6 622 232991.4 868373.8 413.1 27.91219862 8	1.0 405 2 0.5 412.6 1	rock clay	1.5 2	18 16	3 Wind Farm Layout 3 Wind Farm Layout	3	403.6 28.94414678 3 411.4 30.94755206 3	2.4 1.7	1	9	1 3
623 232996.4 868342.7 411.4 24.82439177 8	0.5 410.9 1	rock	1.5	12	2 Wind Farm Layout	3	411.4 0.485768155 4	0	1	12	2 4
624 232940.6 868311.4 423.6 20.14402628 8 625 232941.8 868337.5 425.3 21.2835535 8	0.2 423.4 1 0.4 424.9 1	clay rock	2 1.5	16 12	3 Wind Farm Layout 2 Wind Farm Layout	3	426 22.56122796 3 425.1 3.097065468 4	-2.4 0.2	1	9 12	2 3 4
626 232944.6 868362.1 425.3 21.72102825 8 627 232891.8 868392.6 433.7 15.24516451 8	0.4 424.9 1 1.0 432.7 2	rock rock	1.5 1.5	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3 3	424.2 26.86776441 3 437.4 34.85710471 3	1.1 -3.7	1 1	9	1 1 2
628 232862.6 868373.8 438 15.47847508 8	1.0 437 2	rock	1.5	24	3 Wind Farm Layout	3	438 0.554826637 4	0	1	12	2 6 1 2
629 232840 868349.3 442.8 23.88048169 8 630 232837 868411.8 443 22.11128291 8	0.2 442.6 1 0.8 442.25 2	rock rock	1.5 1.5	24	2 Wind Farm Layout 3 Wind Farm Layout	3	443 1.454011718 4	4.8 0	1	12	2 6
631 232869.4 868433.2 437.6 13.84882612 6	0.5 437.1 1	sand and gravel	1	6	2 Wind Farm Layout	3	444.2 39.15294163 3	-6.6	1	9	1 2

632 232849.7 868478.6 442.3 21.1378205 8 633 232830.6 868537 444.5 19.1035523 8	0.1 442.2 1 1.0 443.5 2	rock rock	1.5 1.5	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3	447.6 35.43450573 3 452.9 34.69865939 3	-5.3 -8.4	1	9 9	1 1 3
634 232793 868534.8 454.3 21.84869658 8 635 232762.6 868525 459.8 22.02685789 8	0.1 454.2 1 0.1 459.7 1	rock sand and gravel	1.5 1	12 8	2 Wind Farm Layout 2 Wind Farm Layout	3	454.5 1.828684245 4 454.5 33.84802315 3	-0.2 5.3	1 1	12 9	1 4 2
636 232740.5 868589.1 463.8 19.83359305 8 637 232772 868595 458.5 18.36460852 8	0.3 463.5 1 0.2 458.3 1	rock rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	459.4 29.72759903 3 458.6 1.67350516 4	4.4 -0.1	1 1	9 12	2 4
638 232717.3 868608.8 468.9 19.55350271 8 639 232708 868608.5 471 22.72228121 8	1.0 467.9 2 0.6 470.4 2	rock	1.5 1.5	24 24	3 Wind Farm Layout 3 Wind Farm Layout	3	476.1 29.65374553 3 476.1 20.44483413 3	-7.2 -5.1	1	9	1 3
640 232697. 868609.2 473.4 26.11298494 8 641 232686.8 868609.7 476.1 26.32693113 8	0.9 472.5 2 0.9 475.2 2	rock	1.5	24	3 Wind Farm Layout 4 Wind Farm Layout	3	476.1 10.06565815 3 476.1 0.77294284 4	-2.7	1	9	3
642 232676.3 868610.6 478.5 25.41870594 8	0.2 478.3 1	sand and gravel	1	8	2 Wind Farm Layout	3	475.8 11.30882657 3	2.7	1	9	1 2
643 232666.9 868610 481 22.24249388 8 644 232657 868609 483.3 21.38430991 8	0.5 480.5 1 0.6 482.7 2	sand and gravel rock	1 1.5	8 24	2 Wind Farm Layout 3 Wind Farm Layout	3	481.2 13.99470366 3 481.2 17.0776589 3	-0.2 2.1	1 1	9	1 2 3
645 232644.8 868612.6 486.1 20.84467214 8 646 232636.3 868609.4 487 20.38422147 8	0.1 486 1 0.1 486.9 1	sand and gravel sand and gravel	1 1	8 8	2 Wind Farm Layout 2 Wind Farm Layout	3	481.2 28.46528776 3 481.2 34.36791657 3	4.9 5.8	1 1	9 9	1 2 2
647 232626.8 868609.1 488.6 20.24178936 8 648 232617.9 868615.1 490 20.2281029 8	0.8 487.8 2 1.4 488.6 2	rock rock	1.5 1.5	24 24	3 Wind Farm Layout 3 Wind Farm Layout	3	481.2 43.20968952 3 481.2 53.58827633 3	7.4 8.8	1 1	9 9	1 3
649 232617.4 868550.5 490.6 15.08005608 8 650 232668.6 868548.8 483.2 20.66179569 8	0.8 489.85 2 0.0 483.2 1	rock	1.5 1.5	24	3 Wind Farm Layout 2 Wind Farm Layout	3	481.2 68.05609549 3 476.5 22.81436213 3	9.4 6.7	1	9	1 3
651 232667.3 868558.4 483.2 21.36712211 8	0.0 483.2 1 0.5 481.8 1	rock	1.5	12	2 Wind Farm Layout	3	475.9 23.12150075 3 476.6 23.92956182 3	7.3	1	9	1 2
653 232666.3 868579 482.1 24.53385269 8	0.8 481.35 2	rock	1.5 1.5	24	2 Wind Farm Layout 3 Wind Farm Layout	3	481.2 17.07256082 3	0.9	1	9	1 2 3
654 232667.1 868594.4 481.3 22.28991699 8 655 232669.1 868601.9 481.1 22.45370656 8	0.5 480.8 1 0.1 481 1	rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	481.2 1.824483936 4 481.2 6.022277373 4	0.1 -0.1	1 1	12 12	2 4 4
656 232668.1 868620.6 480.5 23.03286021 8 657 232667.5 868631.1 480.2 24.37918816 8	0.3 480.2 1 0.1 480.1 1	sand and gravel sand and gravel	1 1	8 8	2 Wind Farm Layout 2 Wind Farm Layout	3	475.3 19.51088071 3 474.8 20.13261511 3	5.2 5.4	1	9 9	1 2 2
658 232665.6 868640.9 479.4 24.48649621 8 659 232665.7 868653.6 478.7 24.48407523 8	0.1 479.3 1 0.2 478.5 1	rock rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	474.3 21.98131743 3 473.5 20.76411547 3	5.1 5.2	1 1	9 9	1 2 2
660 232619.7 868648.7 489.5 18.58962161 8 661 232709.5 868650.1 468.7 21.53912969 8	0.3 489.2 1 1.0 467.7 2	clay	2 1.5	16 24	3 Wind Farm Layout 3 Wind Farm Layout	3	474.5 66.50163333 3 473.7 21.90081495 3	15 -5	2	18 9	2 6 3
662 232741.8 868659.4 462.5 22.12933713 8 663 232743.6 868712.2 458.8 20.29454616 8	0.2 462.3 1 0.1 458.7 1	rock sand and gravel	1.5	12 8	2 Wind Farm Layout 2 Wind Farm Layout	3	462.5 0.256235253 4 464.7 28.11896217 3	0 -5.9	1	12	2 4
664 232722.9 868698.4 463.5 25.18357415 8 665 232683.2 868737.3 471.9 22.85732596 8	0.4 463.1 1 0.4 471.5 1	sand and gravel	1	8	2 Wind Farm Layout 2 Wind Farm Layout	3	463.5 3.295526255 4 468.8 11.78912211 3	0	1	12	2 4
666 232695.4 868742.6 467.5 22.84484123 8	0.4 467.1 1	sand and gravel rock	1.5	12	2 Wind Farm Layout	3	468.8 1.453122729 4	-1.3	1	12	2 4
668 232679.9 868791.2 468.8 19.50506432 8	0.5 464.5 1 0.4 468.4 1	sand and gravel rock	1.5	12	2 Wind Farm Layout 2 Wind Farm Layout	3	472 16.29554087 3	-3.8 -3.2	1	9	1 2
669 232664.6 868783.1 473.1 19.64438256 8 670 232652.7 868772.8 476.4 20.79621518 8	0.5 472.6 1 0.4 476 1	sand and gravel rock	1 1.5	8 12	2 Wind Farm Layout 2 Wind Farm Layout	3	473.1 0.441903737 4 476.4 1.342517227 4	0	1	12 12	2 4 4
671 232639.5 868765.3 479.6 21.29180937 8 672 232619.4 868812.7 478.4 20.65760583 8	0.8 478.85 2 0.3 478.1 1	rock rock	1.5 1.5	24 12	3 Wind Farm Layout 2 Wind Farm Layout	3	476.4 16.26944554 3 474.8 20.10202843 3	3.2 3.6	1	9 9	1 3 2
673 232640.3 868815.8 473.9 20.63367522 8 674 232659.2 868819.8 471 19.49566894 8	0.1 473.8 1 0.6 470.4 2	rock sand and gravel	1.5 1	12 16	2 Wind Farm Layout 3 Wind Farm Layout	3	474.8 0.700478438 4 474.2 19.83088646 3	-0.9 -3.2	1 1	12 9	2 1
675 232640.3 868872.9 469.3 12.06731605 6 676 232625.1 868865.1 471.9 22.46083891 8	0.3 469 1 0.1 471.8 1	sand and gravel rock	1 1.5	6	2 Wind Farm Layout 2 Wind Farm Layout	3	472.9 19.69651261 3 473.2 2.763163388 4	-3.6 -1.3	1	9 12	1 2 4
677 232604.6 868856.9 476.4 11.366059 6 678 232596.7 868890.5 473.7 17.09626054 8	0.1 476.3 1	rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	473.2 19.28731035 3 470.9 15.54846167 3	3.2	1	9	1 2
679 232635.2 868890.7 470.6 19.3569878 8 680 232635.3 868892.3 468.6 12.12702589 6	0.1 473.6 1 0.8 469.85 2 0.1 468.5 1	rock rock rock	1.5 1.5 1.5	24	3 Wind Farm Layout 2 Wind Farm Layout	3	471.5 2.002693281 4 471.8 22.4082431 3	2.8 -0.9 -3.2	1	12	2 6
681 232636.2 868910.3 467.3 12.37837959 6	0.1 467.2 1	rock	1.5	9	2 Wind Farm Layout	3	465.7 23.90142037 3	1.6	1	9	1 2
682 232638.5 868901 468.2 12.10025324 6 683 232637 868919.4 466.8 12.67857457 6	0.1 468.1 1 0.2 466.6 1	rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	471.5 27.38565023 3 465.7 15.15475243 3	-3.3 1.1	1	9	1 2 2
684 232637 868929.2 465.7 12.84210189 6 685 232637.3 868940.3 464.5 16.17367353 8	0.6 465.1 2 0.3 464.2 1	rock	1.5 1.5	18 12	3 Wind Farm Layout 2 Wind Farm Layout	3	465.7 6.269556212 4 465.7 7.593794407 4	0 -1.2	1	12 12	2 6 4
686 232636.6 868948.6 464 18.1183138 8 687 232637.2 868960.6 461.8 19.75924866 8	0.2 463.8 1 0.4 461.4 1	rock rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	465.7 15.06251021 3 465.7 26.89239683 3	-1.7 -3.9	1	9	1 2 2
688 232635.9 868968.9 461.1 20.69873896 8 689 232637.1 868980.1 459 21.08732207 8	0.5 460.6 1 0.4 458.6 1	rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3 3	465.7 35.03354884 3 465.7 46.25263338 3	-4.6 -6.7	1 1	9	1 2 2
690 232602.5 868980.6 464.2 17.16508155 8 691 232599.4 868969.5 465.8 12.51270878 6	0.4 463.8 1 0.6 465.2 2	rock	1.5 1.5	12 18	2 Wind Farm Layout 3 Wind Farm Layout	3	467.1 20.1933034 3 467.3 13.49445872 3	-2.9 -1.5	1	9	1 2
692 232598.8 868940.5 468.1 12.61334339 6 693 232609 868937.9 467.6 11.78670831 6	0.1 468 1 0.2 467.4 1	rock	1.5 1.5	9	2 Wind Farm Layout 2 Wind Farm Layout	3	468.7 3.242572448 4 469.2 12.00960281 3	-0.6 -1.6	1	12	2 4
694 232619.4 868937.1 466.6 11.91760876 6	0.1 466.5 1	rock	1.5	9	2 Wind Farm Layout	3	465.7 13.98149367 3	0.9	1	9	1 2
695 232627.3 868938.4 465.8 12.65847551 6 6 696 232651.4 868936.7 463.1 18.36405378 8	0.6 465.2 2 0.5 462.6 1	rock	1.5 1.5	18 12	3 Wind Farm Layout 2 Wind Farm Layout	3	465.7 7.167946459 4 465.7 18.59670163 3	0.1 -2.6	1	9	1 2
697 232647.2 868937 463.8 18.13893533 8 698 232658.6 868938.7 462.3 18.4474371 8	0.1 463.7 1 0.6 461.7 2	rock	1.5 1.5	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3	465.7 14.48949409 3 465.7 26.0467068 3	-1.9 -3.4	1 1	9	1 2 3
699 232667.5 868939.7 460.7 19.49418994 8 700 232678.3 868937.2 458.7 24.50977835 8	0.1 460.6 1 0.6 458.1 2	rock rock	1.5 1.5	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3	465.7 34.93402601 3 465.7 45.41977022 3	-5 -7	1 1	9 9	1 2 3
701 232676.8 868979.9 453.7 21.9754394 8 702 232679.8 868890.7 464 17.85337877 8	0.4 453.3 1 0.1 463.9 1	rock rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	465.7 63.47502399 3 472.9 62.87363719 3	-12 -8.9	1 1	9 9	1 2 2
703 232741.6 868310.1 463.4 15.84045276 8 704 232768.1 868306.5 458.9 20.57620901 8	0.3 463.1 1 0.1 458.8 1	rock rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	463.4 0.229748425 4 463.4 26.28579616 3	0 -4.5	1 1	12 9	2 1
705 232772.1 868358.6 461.8 23.95133954 8 706 232747.4 868361.8 466.7 15.98111585 8	0.4 461.4 1 0.1 466.6 1	rock sand and gravel	1.5	12 8	2 Wind Farm Layout 2 Wind Farm Layout	3	466.5 24.41418283 3 466.7 0.114320916 4	-4.7 0	1	9 12	1 2 4
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724 232487.9 868955.9 472.4 9.158246765 6	0.1 472.3 1	rock	1.5	9	2 Wind Farm Layout	3	472.4 0.103861344 4 472.6 20.88692507 3	0	1	12	2 4
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731 232403.4 868895.8 470.7 18.73908148 8 732 232365.1 868853.2 469.8 11.18418194 6	0.8 469.95 2 1.6 468.2 3	rock rock	1.5 1.5	24 27	3 Wind Farm Layout 3 Wind Farm Layout	3	475.3 20.10270806 3 471.2 18.57235003 3	-4.6 -1.4	1 1	9 9	1 1
733 232379.6 868842.7 471.2 16.90571089 8 734 232394.6 868829.1 473.8 16.8200386 8	0.8 470.45 2 0.4 473.4 1	rock sand and gravel	1.5 1	24 8	3 Wind Farm Layout 2 Wind Farm Layout	3	471.6 0.850641595 4 471.6 19.31397898 3	-0.4 2.2	1 1	12 9	2 6 1 2
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742 232211.5 868828.6 478.7 16.84616853 8 743 232229.1 868843.8 475.3 19.37045405 8	0.8 477.95 2 0.1 475.2 1	rock sand and gravel	1.5 1	8	3 Wind Farm Layout 2 Wind Farm Layout	3	474.3 23.3669972 3 475.3 0.229621013 4	4.4 0	1	12	2 4
744 232244.2 868857.7 472.8 18.7764848 8 745 232228.7 868909.6 478.2 25.4081228 8	0.4 472.4 1 0.8 477.45 2	rock rock	1.5 1.5	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3	475.5 20.15848848 3 483.1 22.71609082 3	-2.7 -4.9	1	9	1 2 3
746 232205.1 868892.3 482.4 25.51501437 8 747 232189.9 868881.7 486.7 21.53342289 8	0.3 482.1 1 0.3 486.4 1	rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	482.4 3.45647588 4 480.7 21.71496238 3	0	1	12 9	1 4 2
748 232177.4 868927.8 491.8 17.23511913 8 749 232200.5 868940.6 488.6 25.1378063 8	0.1 491.7 1 0.1 488.5 1	rock rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	487.2 23.78145209 3 489.9 1.348927356 4	4.6 -1.3	1	9 12	1 2 4
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760 232191.3 869081.8 495.8 18.70815942 8	0.1 495.7 1	rock	1.5	12	2 Wind Farm Layout	3	495.8 3.677251411 4	0	1	12	2 4
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763 232173.3 869109.4 498.4 20.03237711 8 764 232154 869155.8 500.7 25.56325866 8	0.2 498.2 1 0.2 500.5 1	sand and gravel sand and gravel	1 1	8	2 Wind Farm Layout 2 Wind Farm Layout	3	494.3 18.1684898 3 493.7 30.04542634 3	4.1 7	1	9	1 2 2
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771 232158.1 869255.3 493.4 37.55908395 8 772 232189.4 869256.7 484.2 27.04427472 8	0.1 493.3 1 0.3 483.9 1	rock	1.5 1.5	12 12	2 Wind Farm Layout 2 Wind Farm Layout	3	489.4 7.440248334 4 490.3 23.53925131 3	4	1	12 9	2 4 2
773 232151.6 869310.8 486.5 27.12247947 8 774 232168.3 869311 482.6 26.53751221 8	0.8 485.75 2 0.8 481.8 2	rock sand and gravel	1.5 1.5	24 16	3 Wind Farm Layout 3 Wind Farm Layout	3	486.5 2.524911242 4 486.9 13.85726436 3	0 -4.3	1	12	2 6
775 232153.6 869359.2 480.9 24.43052314 8	0.8 481.8 2 0.8 480.1 2 0.7 479.3 2	sand and gravel	1	16	3 Wind Farm Layout	3	486.9 13.85726436 3 483.1 9.403860635 4 481.8 7.88695576 4	-4.3 -2.2 -1.8	1	12	2 6
777 232153.8 869380.4 477.5 24.29663387 8	0.8 476.75 2	sand and gravel rock	1 1.5	24	3 Wind Farm Layout 3 Wind Farm Layout	3	480.7 13.99683167 3	-3.2	1	9	1 3
778 232153.3 869389.5 477.2 22.64079375 8 779 232151.4 869401 475.6 19.80454323 8	0.7 476.5 2 0.3 475.3 1	sand and gravel rock	1 1.5	16 12	3 Wind Farm Layout 2 Wind Farm Layout	3	475.3 10.62688945 3 475.3 6.868009715 4	1.9 0.3	1 1	9 12	3 4
780 232152.8 869411.1 475.5 19.28789883 8 781 232154.3 869420.1 474.7 17.12514351 8	1.1 474.4 2 1.5 473.2 2	rock rock	1.5 1.5	24 24	3 Wind Farm Layout 3 Wind Farm Layout	3 3	475.3 13.18283218 3 475.3 21.4401676 3	0.2 -0.6	1 1	9	1 1 3
782 232152.8 869431.2 474.1 15.58301984 8 783 232153 869440.5 474.1 16.74286347 8	0.5 473.6 1 1.0 473.1 2	rock rock	1.5 1.5	12 24	2 Wind Farm Layout 3 Wind Farm Layout	3	475.3 32.64147213 3 480.4 41.08145495 3	-1.2 -6.3	1 1	9 9	1 1 3
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786 232200.4 869451.2 467.2 12.58003373 6 787 232211.8 869410.9 467.8 11.88798659 6	0.2 467 1 1.0 466.8 2	sand and gravel rock	1 1.5	6 18	2 Wind Farm Layout 3 Wind Farm Layout	3 3	475.3 67.23287928 3 475.3 55.14666936 3	-8.1 -7.5	1 1	9	1 1 2
											

State Stat												
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Service			2 rock		24		3			1	12	2 6
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Mary Color Mar	797 232107.9 869364.4 490.5 27.75882133 8		1 rock	1.5	12		3	481.1 34.20288591 3		1	9	1 2
Mart	798 232202.3 869361.3 470.7 18.04637934 8		1 sand and gravel	1	8		3			1	9	1 2
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S PATE NAME NO. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	805 232629.2 869630.1 438.1 21.12115348 8		2 sand and gravel	1	16		3			1	9	1 3
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Marche M			1 rock	1.5	12		3			1	9	1 2
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A MATERIAL OF A PARTIES OF A PA					12		3			î	9	1 2
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10 March 1985 10 March 1985	857 232520.3 869153.8 446.9 15.31340093 8		1 rock		12		3	448.8 0.712316528 4		1	12	2 4
13 March 1985 18 March 1985			1 rock	1.5	6		3			1	9	1 2
And Antibus Meet No. 1				1	2		3			î	12	2 2
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## 2000 10 10 10 10 10 10 10	865 234058.5 869301.7 356.5 4.217707952 4		2 rock	1.5	12	2 Wind Farm Layout	3			1	9	1 2
## 15 1	867 233796.5 869541.1 352.2 5.542448998 4		1 clay	2	8		3			1	9	1 3
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## 12 Part 1975 197	871 233829.4 869578.1 350.5 5.65180325 4	0.8 349.7	2 clay	2	16	3 Wind Farm Layout	3	350.4 2.611888676 4		1	12	2 6
10 - 2008 4 100 -	872 233839.4 869580 350.4 5.675040878 4		2 clay	2	16		3		0	1	12	2 6
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10 201812 MORPS 10 20 20 20 20 20 20 20 20 20 20 20 20 20	875 233868.9 869577 350 5.850901531 4	0.6 349.4	2 sand and gravel	1	8	2 Wind Farm Layout	3	350.6 11.08334601 3	-0.6	1	9	1 2
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## 2 Figure 2 Minor 2			z clay 1 sand and gravel	2	16		3			1	9	1 3
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