

# INITIAL EVALUATION REPORT:

## South Copeland area together with the adjacent inshore area

**PREPARED FOR: Private Individual**

**SITE REFERENCE: South Copeland area**

## Conditions of Publication

This report is made available under the Radioactive Waste Management Limited (RWM) Transparency Policy. In line with this policy, RWM is seeking to make information on its activities readily available, and to enable interested parties to have access to, and influence on, its future programmes. The report may be freely used for non-commercial purposes. All commercial uses, including copying and re publication, require permission from RWM. Applications for permission to use the report commercially should be made to RWM.

Although great care has been taken to ensure the accuracy and completeness of the information contained in this publication, RWM cannot assume any responsibility for consequences that may arise from its use by other parties.

© Radioactive Waste Management Limited 2020. All rights reserved.

RWM is a wholly owned subsidiary of the Nuclear Decommissioning Authority (NDA) and all copyright, database rights and other intellectual property rights owned by RWM are ultimately owned by or vest in the NDA.

### Other Publications

If you would like to see other reports available from RWM and the NDA, a complete listing can be viewed at our website [www.nda.gov.uk](http://www.nda.gov.uk), or please write to us at the address below.

### Feedback

Readers are invited to provide feedback on this report and to provide any suggestions for how RWM may consider improving the range of reports and information we publish. Feedback should be addressed to:

RWM Feedback  
Radioactive Waste Management Limited  
Building, 329 West Thomson Avenue  
Harwell Campus  
Didcot  
OX11 0GD  
UK

email: [rwmfeedback@nda.gov.uk](mailto:rwmfeedback@nda.gov.uk)

# Contents

<b>Conditions of Publication</b>	ii
<b>Preface</b>	1
<b>Context of this report</b>	2
<b>Executive Summary</b>	4
<b>1. Introduction</b>	7
Objective of this Report	7
Area of Interest	8
Evaluation Approach	10
<b>2. Initial Evaluation</b>	11
Safety and Security	11
Community	14
Environment	16
Engineering Feasibility	18
Transport	19
Value for Money	20
<b>3. Conclusion</b>	21
<b>4. Potential Future Work</b>	22
<b>5. Next Steps</b>	23
<b>Glossary</b>	24
<b>Sources of Information used to support Initial Evaluations</b>	26
<b>Mapping Data</b>	28
<b>Endnotes</b>	28

# Preface

This report has been developed by Radioactive Waste Management Ltd (RWM) as part of the process to identify a suitable site for a Geological Disposal Facility (GDF) within a willing host community.

It summarises initial work that RWM has undertaken as part of Initial Discussions being held with a private individual in response to paragraph 6.15 of the UK Government's Working with Communities Policy [i] (the 'Policy') which states that during Initial Discussions:

*"Under all scenarios RWM will undertake initial work to understand whether the land identified has any potential to host a GDF."*

Paragraph 6.15 goes on to say:

*"At this point discussions may remain confidential (subject to disclosure requirements contained in information law legislation, including the Freedom of Information Act 2000 and the Environmental Information Regulations 2004), though they should be made public at the earliest opportunity if the interested party and RWM decide to move forward."*

# Context of this report

Discussions with RWM have been initiated by a number of Interested Parties in the Borough of Copeland. As part of these Initial Discussions RWM has undertaken initial evaluation work and produced four separate Initial Evaluation Reports to understand whether each of the areas identified by the various Interested Parties have any potential to host a GDF.

**The Interested Party for which this Initial Evaluation Report applies expressed a particular interest in the potential to host the surface facilities associated with a GDF on existing developed land in the south of Copeland, which could be re-purposed by the GDF development and support environmental mitigations. This Interested Party was also interested in understanding the potential for development in the inshore area accessed from the south of Copeland, with attendant benefits for local communities from local infrastructure development and employment.**

A further Interested Party expressed a particular interest in investigating the potential to host a GDF in the inshore area accessed from the coastal strip around the area of the existing site of the Low Level Waste Repository with attendant benefits for local infrastructure development and employment. The clear view from this Interested Party is that the Lake District National Park should be excluded from consideration.

Another Interested Party expressed a general interest in seeing the opportunity of the GDF programme given proper consideration in west Cumbria as part of future infrastructure developments in the area. The view from this Interested Party is that the National Park should be excluded from consideration.

In July 2020 the Executive of Copeland Borough Council agreed that in recognition of the progress that RWM Ltd were making in their search for a suitable site and a willing community to host a GDF, and the potential 'route map' of the steps that they would need to take to establish a Working Group, the Council would open up discussions with RWM with a view to establishing a Working Group in Copeland to explore any potential suitable sites for consideration as a location for a GDF with the following conditions attached.

1. *“That those areas of the Borough currently within the boundary of the Lake District National Park are excluded from any consideration from the outset.*
2. *That in recognition of the current Working with Communities process which allows for a GDF to be located in an ‘in-shore area’, that the in-shore area off the coast of Copeland is worthy of consideration.*
3. *That the Council wants to see a credible and independent Chair appointed to the Working Group and that all the Councils legitimate costs of engaging in the process are covered.”*

Following the completion of initial evaluation work RWM has concluded that there may be potential to host a GDF in all of the areas referred to above, as identified by the Interested Parties. Both RWM and all the Interested Parties have agreed they would like to take the next step, to open up discussions more widely in the community by forming a Working Group i.e. a single Copeland Working Group would be formed to include all four Interested Parties.

Although this report is focused on the area suggested by the private individual to facilitate ongoing discussions, the geographical area to be discussed initially by the proposed Copeland Working Group will be the whole of Copeland Borough and the adjacent inshore area, with the exclusion of the area located within the boundary of the Lake District National Park. The Working Group will use this as a starting point from which it will propose a Search Area (or Search Areas) for consideration by a future Community Partnership (or Community Partnerships). The potential for development of the underground facilities of a GDF off the coast, accessed from land, will also be considered by the Working Group i.e. the potential inshore area.

In response to the Copeland Working Group issued Position Statement Reference – "Currently Proposed Lake District National Park Extension" dated 20th May 2021 to reduce the risk of future confusion the original Initial Evaluation Report title for this area, that predated the formation of the Working Group, has been updated to "South Copeland area together with the adjacent inshore area" and references to a mineral extraction site within the area of the proposed Lake District National Park extension have also been amended.

# Executive Summary

Following initial discussions with Radioactive Waste Management Ltd (RWM), a private individual wishes to understand whether the quarry void of a mineral extraction site together with an extended area stretching south and west to the coast, including the adjacent inshore area off the coast, has potential to host a Geological Disposal Facility (GDF). This area includes part, but not all, of the Copeland Borough Council electoral ward of Black Combe and Scafell.

This private individual is one of four Interested Parties that have approached RWM to understand whether there is any potential for a GDF to be located in the Borough of Copeland. During Initial Discussions with all of the Interested Parties in the borough, the Interested Parties have agreed that those areas of the borough currently located within the boundary of the Lake District National Park should be excluded from any consideration to host a GDF from the outset. The Policy confirms that the process to find a suitable location for a GDF is consent based. As such, this position will be respected by RWM and this will inform the identification of any future Search Area by the Working Group.

A GDF is expected to bring substantial benefits to the community which hosts it. As a major infrastructure project, a GDF is expected to generate hundreds of well-paid jobs each year for over 100 years in construction, engineering, administration, safety operations and project management. There is an opportunity for skills to be developed by people in the community and for the jobs to be undertaken by them. Given the scale of a GDF, it is likely it could require a significant upgrade to local transport infrastructure, which could bring significant benefits to local residents and businesses and make the area more attractive for inward investment. In addition, the community would benefit from opportunities to use significant community investment funding for locally important priorities early in the siting process. The Government has also committed in the Policy to providing significant additional investment to the community that hosts a GDF.

The evaluation of this area<sup>1</sup> has been based on the six 'siting factors' of Safety and Security, Community, Environment, Engineering Feasibility, Transport and Value for Money established by RWM following public consultation and which are discussed in RWM's published document *'Site Evaluation – How we will evaluate sites in England'*.

Based on a review of readily available information relevant to each of the six siting factors, initial findings indicate that the Area of Interest has the potential to host a GDF and could as a result gain the significant benefits a GDF could provide for the surrounding area and economies for over 100 years.

---

<sup>1</sup> The area considered during this Initial Evaluation Report comprises an area in the south of the Borough of Copeland that includes the surroundings and void of a working mineral extraction site together with an extended area stretching south and west to the coast, including the adjacent inshore area off the coast (see figure 1). It is referred to in this report as the 'Area of Interest'.

Existing geological information, as compiled in the National Geological Screening, shows there are several clay-rich rock layers occurring within the depth range of interest within the adjacent inshore area off the coast. In addition, some of these clay-rich rocks contain a series of evaporite units containing rock salt (halite) layers. These rock salt layers may be thick enough to host a GDF where the clay-rich rocks thicken, although they do not always occur within the depth range of interest. Higher Strength Rocks, such as slates and granites, which are potentially suitable as host rocks for a GDF, are also present in the area. Thus, all three of the main rock types that are potentially suitable for hosting a GDF can be found in the Area of Interest. No fundamental constraints relating to construction, operational safety or security of a GDF in the Area of Interest have been identified at this stage.

The local area has a long association with the nuclear sector meaning that there is considerable nuclear skill and expertise in the local workforce as well as a local community that is familiar with nuclear issues, including those relating to radioactive waste. There are nuclear facilities located at BAE Systems in Barrow-in-Furness associated with submarine manufacture. In addition, approximately 11,000 people are directly employed by Sellafield Ltd nearby, with thousands more in the supply chain. Many of these individuals are in highly skilled engineering and scientific jobs. Sellafield is currently undergoing a transformation in operations, with a move into full decommissioning. The delivery of a GDF in the area could help the retention and redeployment of transferable nuclear capability between ongoing and future missions such as a GDF, as set out in the Cumbria Nuclear Prospectus.

The existing tourism economy of this part of West Cumbria, and the wider area, is highly valued and it is important that the natural, heritage and cultural features and assets that support and drive this economy are treated sensitively. Delivery of a GDF could provide the community with an opportunity to create a GDF/scientific centre of excellence, which could itself become a tourist point of interest alongside the existing tourist destinations.

The area that has been considered as part of this initial work is, in parts, adjacent to the Lake District National Park, which is the largest National Park in England and a World Heritage Site. The National Park is afforded the highest level of landscape protection due to its scenic beauty. As discussed above, all the Interested Parties in the Borough of Copeland have confirmed that those areas of the borough currently located within the boundary of the Lake District National Park should be excluded from any consideration for hosting a GDF from the outset. In addition, parts of the Area of Interest and the Duddon Estuary to the south have national and European protected status due to their nature conservation interests. RWM understands and fully supports the priority given to respecting these protected areas. However, at this stage, with no specific sites for the surface facilities of a GDF identified, it is not possible to assess the specific potential impacts of delivering a GDF on the environment. RWM would seek to work with the community and relevant stakeholders to understand the natural environment in greater detail when considering the implications of delivering a GDF in the Area of Interest on such protected areas and the natural environment.

Nuclear materials transport, workforce commuting, and construction material routes to Sellafield and the Low Level Waste Repository near to the village of Drigg have already been established in the wider area. Nuclear materials have been safely transported to and from the area for many decades. However, to support the development of a GDF in the Area of Interest, existing routes are likely to need improving. This could bring benefits for local communities, which are currently under-served by the existing road and rail networks in the wider region, and could have the additional benefit of making the area more attractive for development and inward investment. The Area of Interest that has been the subject of this initial evaluation work includes a coastline so the option of sea transport via a dedicated port facility nearby could be explored further with the community. Using sea transport could present additional

benefits through required infrastructure upgrades, as well as reducing the impact of land-based transport, with further potential synergies with wider clean-energy opportunities on similar timescales as set out in the Cumbria Nuclear Prospectus.

This initial work has not confirmed that the Area of Interest is suitable to host a GDF. Rather, it has developed an understanding of whether the Area of Interest holds any potential to host a GDF, together with early identification of known constraints and uncertainties. Further analysis drawing on additional sources of information and data will be required if this area is considered further in the siting process.

If this Area of Interest moves forward in the siting process, RWM would work collaboratively with the local community and relevant stakeholders to enhance current understanding of the aspirations for the area and how delivery of a GDF could be aligned to local priorities. RWM would also wish to focus on the sensitivities of the local natural environment, together with the implications of future climate change. RWM would also consider the existing transport-related challenges of the area and potential transport options and how benefits could be realised as a consequence of any infrastructure upgrades that may be required.

The next part of the siting process for this area would take forward discussions with the community through the formation of a Working Group involving RWM, the private individual, and other organisations as appropriate. An independent chair and facilitator would be appointed, and all relevant principal local authorities would be informed and invited to join the Working Group.

Following the completion of the initial evaluation work by RWM during Initial Discussions all of the Interested Parties in the Borough of Copeland have agreed that they would work together to form a single Working Group.

An early task for the Working Group would be to identify a Search Area. The Search Area is the geographical area within which RWM would seek to identify potentially suitable sites to host a GDF. The position that has been expressed by the Interested Parties with respect to the exclusion of the Lake District National Park will inform the identification of the Search Area. The Policy confirms that a Search Area is to be delineated using the district electoral ward boundaries.

The Working Group will start to gather information about the people and organisations in the area who are likely to be affected or have an interest in a GDF with a view to identifying members for a formal Community Partnership. This Community Partnership will provide a vehicle for sharing information with the community and for finding answers to the questions the community may have about geological disposal, the siting process and how they, as a community, could benefit. If it is to be successful, it will be important for a Community Partnership to reflect, both in its composition and views, the community it is representing and be respectful of a wide range of opinions.

A community can withdraw from the siting process at any time up until it has taken the Test of Public Support required before a decision is made to seek development consent from the Secretary of State. Relevant principal local authorities on the Community Partnership will have the final say on when to undertake this Test of Public Support in order to seek the community's views on hosting a GDF.

# 1. Introduction

## Objective of this Report

This Initial Evaluation Report has been prepared to help understand the potential for a Geological Disposal Facility (GDF) to be located in the area that has been identified to inform ongoing discussions between a private individual and Radioactive Waste Management Ltd (RWM) in respect of the siting process for a GDF<sup>2</sup>.

It presents the findings of initial evaluation work carried out by RWM to understand whether, based on existing readily available information, the area around a mineral extraction site and an area spreading out across the coastal plain together with the adjacent inshore area<sup>3</sup>, referred to in this report as the 'Area of Interest', has any potential to host a GDF.

The initial evaluation work is not designed to confirm whether or not the Area of Interest is suitable to host a GDF. Identifying a suitable site will take several years due to the need to properly identify, investigate and assess potential sites to host a GDF, and to ensure that communities involved in the siting process have a full understanding of how the GDF project might affect them.

A wealth of additional information and resources is available online<sup>4</sup>, including links to the UK Government's policy on geological disposal.

---

<sup>2</sup>A GDF will have both surface and underground facilities. They will be linked by access tunnels and/or shafts, depending on the layout of these facilities. The underground facilities do not need to be located directly below the surface facilities – they could be separated by a distance of many kilometres. The precise layout and design of the facilities will depend on the inventory for disposal and the specific geological characteristics at the site in question.

<sup>3</sup>The inshore is defined as the UK Territorial Waters which extend up to 12 nautical miles (22.2 km) from the Mean Low Water Mark.

<sup>4</sup><https://geologicaldisposal.campaign.gov.uk>.

## Area of Interest

The Area of Interest considered in this report lies at the southern end of the Copeland Borough on the most westerly of the Lake District Peninsulas. The nearest neighbouring borough is that of South Lakeland District Council with Barrow-in-Furness to the south, across the Duddon Estuary.

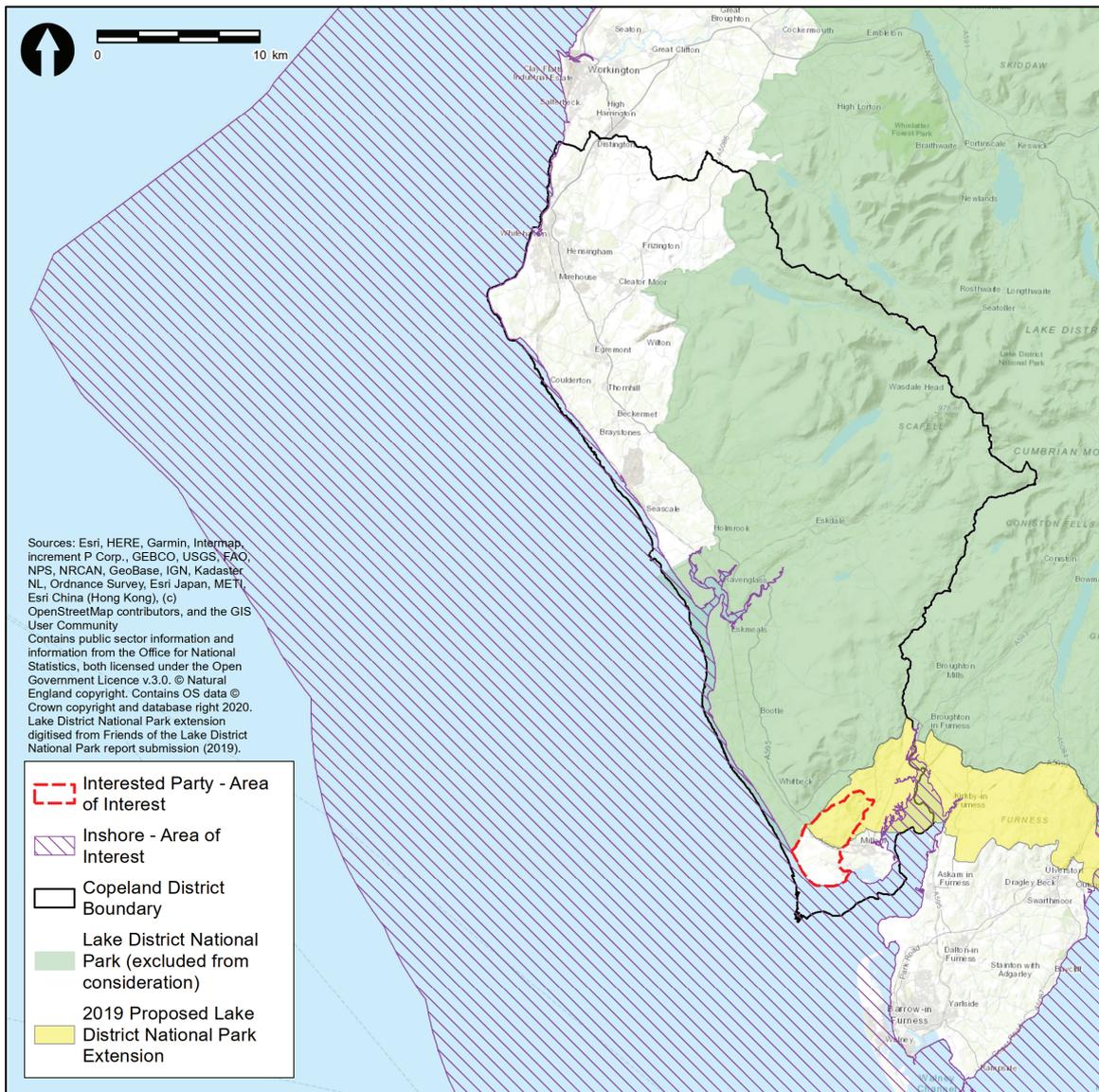
A mineral extraction site has been suggested as a potential location for the surface facilities associated with a GDF. At this early stage a detailed assessment of its suitability as a surface location has not been undertaken, but this could be explored further if this area progresses through the siting process. The Area of Interest considered at this initial stage comprises the surroundings and void of the working mineral extraction site together with an extended area stretching south and west to the coast, including the adjacent inshore area off the coast. The area is within the Borough of Copeland immediately outside the southern boundary of the Lake District National Park. This is aligned to the position agreed by all the Interested Parties, following the completion of initial evaluation work, that those areas of the borough currently located within the boundary of the Lake District National Park should be excluded from any consideration to host a GDF from the outset. This position relating to the Lake District National Park will inform the identification of the Search Area by the Working Group.

The Area of Interest is located on the west coast of Cumbria and covers an area of land that is approximately 15 square kilometres. It is predominantly rural, with the village of Haverigg found on the coast and small village of Kirksanton in the Whicham Valley. Her Majesty's Prison, Haverigg lies on an old RAF airfield on the coastal plain. The population in the area is probably less than 300 and has a very low density. The small town of Millom is just to the east of the area that has been subject to this initial evaluation work, and is home to approximately 6,000 people.

The Area of Interest is relatively isolated with agriculture the dominant land use, along with some rural tourism and some retail services. Those that can are likely to travel out of the area for work including to Sellafield, Millom, Barrow-in-Furness and the Low Level Waste Repository or the nearby coastal firing range. The largest employers in the area are the prison at Haverigg and a mineral extraction operation.

**Figure 1** shows the geographical extent of the Area of Interest (including the inshore area off the coast).

Figure 1: Map of the area under consideration



The GDF surface facilities would require in the region of one square kilometre of land, however the precise layout and land requirements would need to be determined in due course if the Area of Interest were to progress through the siting process. These surface facilities would be linked to the sub-surface facilities by a sloping tunnel and/or vertical shafts. The area occupied by the surface facilities would therefore only occupy a part of the Area of Interest that has been considered. It is important to note that the sub-surface area of a GDF does not have to be underneath the surface facilities and can be offset by many kilometres. This provides an opportunity for the sub-surface facilities to be located deep beneath the seabed in the inshore area. Also, the surface facilities do not all need to be located together; there is potential for ‘split’ sites for offices, reception facilities etc.

## Evaluation Approach

The work presented in this Initial Evaluation Report is based on the approach set out in the Policy and RWM's published Site Evaluation document *Site Evaluation - How we will evaluate sites in England* [ii].

The Site Evaluation document draws upon the existing legislative, policy and regulatory requirements that RWM will need to satisfy to successfully deliver a GDF and identifies six 'Siting Factors' setting out the broad topic areas that RWM needs to consider as it assesses and evaluates areas and sites. These Siting Factors have then been broken down into a series of 'Evaluation Considerations' to provide greater clarity on the matters that RWM will take into account.

This Initial Evaluation Report is structured around the six Siting Factors:

Safety and Security

Community

Environment

Engineering Feasibility

Transport

Value for Money

A key focus of this initial evaluation has been the geological context of the Area of Interest. This is to underpin RWM's ability to understand whether the Area of Interest has the potential to host a GDF to the satisfaction of RWM itself, the local community, independent regulators, and other stakeholders.

In this initial evaluation, RWM has considered the possibility of the sub-surface facilities of a GDF being located at depth beneath the Area of Interest, including hundreds of metres below the seabed off the coast within the inshore area.

At this early stage in the siting process RWM has only drawn upon existing readily available information to inform a desktop study by its technical specialists. A list of the information considered is appended to this report.

# 2. Initial Evaluation

## Safety and Security

**Based on the review of readily available information relating to the Safety and Security Siting Factor, RWM has concluded that the Area of Interest has potential to host a GDF.**

It is essential that a GDF is safe during the period in which it is constructed and operated but it must also remain safe for hundreds of thousands of years after it has been closed and sealed. Safety after closure is often referred to as 'long-term safety' or 'post-closure safety'.

The geological environment is an important consideration to safety after closure as man-made engineered barriers work together with the geology to provide this protection.

Based upon work in the UK and overseas RWM has identified three broad types of potential host rock for a GDF.

- Lower Strength Sedimentary Rocks (LSSR), like clays and mudstones;
- Evaporites, such as rock salt; and
- Higher Strength Rocks (HSR), like granites and slates.

All three of these potential host rocks (LSSR, Evaporites and HSR) occur within the depth range of interest<sup>5</sup> (200 to 1,000 metres below National Geological Screening (NGS) datum<sup>6</sup>) within the Area of Interest RWM has considered as part of this initial work.

There are potentially several different HSRs within the depth range of interest in the area. HSR, such as granites, are potentially suitable because they are strong so they will support the tunnels and caverns that make up a GDF. The bulk of HSR has no gaps between the crystals and so groundwater only flows through the cracks. Depending on the nature of these cracks, and the surrounding geology and groundwater, HSR rocks can be suitable to host a GDF.

---

<sup>5</sup> The depth range of interest for a GDF is 200 metres to 1,000 metres below the NGS datum (see the NGS web page (<https://www.gov.uk/guidance/about-national-geological-screening-ngs>) Although screening has focused on the 200 to 1,000 metres depth range, which is consistent with Government Policy and the National Geological Screening Guidance, RWM recognises that some rock types may be suitable as host rocks where they occur at depths greater than 1,000 metres.

<sup>6</sup> NGS datum is a level that has been used to enable the production of maps showing the rock types of interest at depths of 200 metres to 1,000 metres below the surface. In flat lying areas the use of the land's surface is fine, however in mountainous and hilly areas this can be misleading. This is because there could be potentially suitable host rocks that appear to be more than 200 metres below the surface, but they are actually higher than, or level with, nearby valleys. To avoid this, a model was developed that consists of flat surfaces between the bases of valleys. This is to ensure that rocks identified as potentially suitable will be below nearby valleys.

Parts of the coastal plain and the inshore area off the coast are underlain by a number of groups of younger and older Lower Strength Sedimentary Rocks. LSSR, or clay-rich rocks, are internationally recognised as potentially suitable for hosting a GDF. This is because these rocks are rich in very small clay particles, which only allow water to pass through them very slowly. In addition, the high clay content means that any cracks that form in these rocks reseal, particularly under the weight of hundreds of metres of overlying rock. As a result, there is often almost no groundwater movement through these rocks. These attributes, together with the engineered barrier system, would contribute to a situation where radionuclides and other non-radioactive materials would be suitably contained for hundreds of thousands of years.

Some of the clay-rich rocks in the Area of Interest contain a series of evaporite units containing rock salt (halite) layers. Rock salt has several properties that make it potentially well-suited for hosting a GDF. First, they are made of interlocking crystals of salt with very few gaps in between them. This makes it very difficult for water, gas and other fluids to pass through it, even over geological time scales. Secondly, rock salt absorbs water vapour. That means that salt mine environments are extremely dry. In some parts of the world including the UK, documents, precious artefacts and priceless works of art are kept in salt mines for this reason. Thirdly rock salt can be squeezed into different shapes under relatively low pressures and over short time scales. This means that cracks and fractures in rock salt, which in other rock types might provide pathways for water and gases to flow, rapidly close up and 'seal' and therefore prevent movement of these fluids. Initial work suggests that, although these rock salt layers may be in excess of 100 metres thick and may have the properties for potential Evaporite host rocks, they are not always within the depth range of interest.

There are well developed disposal concepts for all three potential host rock types found in the Area of Interest. Based on RWM's work and similar work carried out overseas, RWM has confidence that a GDF design could be developed in any one of these rock types which would provide the required high level of safety. This would be presented in safety cases which will be assessed by the UK's independent regulators.

The present understanding of the area indicates that there are a number of major faults (defined as faults that offset adjacent rock layers by 200 metres or more) both onshore and off the coast. This is not unusual: faults are very common in the underground environment. Faults may act as barriers to, or pathways for, groundwater movement, depending upon their characteristics, and these would need to be considered during the siting of a GDF should the Area of Interest progress through the siting process.

Iron ore mining has taken place historically around Millom, near to the Area of Interest that has been the subject of this initial work. This may have changed the original patterns of ground water movement, and shallow groundwater may now circulate to greater depths than it did before mining. There are also known to be deep exploration boreholes in the area which may influence the connectivity between shallow and deep groundwater. These would need to be considered further in the siting of a GDF if this area progresses through the siting process.

There are a number of Petroleum Development Licences (PEDLs) granted for oil and gas exploration in the inshore area. It is not known whether further hydrocarbon exploration or exploitation will be undertaken in the area, but the existence of PEDLs suggests that there is a possibility of future exploration and exploitation. This would need to be considered during the siting process if the Area of Interest were to progress.

It is recognised that there is geological information relating to parts of the wider area that was generated through historical surveys and studies previously commissioned with respect to the potential for the geological disposal of radioactive waste in this locality. Similarly, there are operational and historic mining activities that have resulted in the production of potentially relevant sub surface surveys and studies. If this area progresses to a point where a Community Partnership is formed RWM will review and revisit existing information that may be available. RWM would need to be mindful of the purposes of the historic surveys and studies, and legislative and regulatory changes that may have occurred in the intervening years, but this information could enable RWM to enhance the understanding of the geological environment of the area.

As part of the work that was carried out under the West Cumbria Managing Radioactive Waste Safely Partnership, the British Geological Survey undertook a high-level screening of the areas of Copeland and Allerdale Boroughs. This was a desk-based study that used existing information to rule out areas that could not host a facility due mostly to the known presence of natural resources, based on pre-determined criteria that formed part of that previous siting process. This work resulted in the exclusion of some parts of the area studied at that time. In addition, some areas were ruled out due to the presence of known aquifers. However, it was recognised that exploitable aquifer rock volumes do not extend throughout the whole depth range of interest (between 200 and 1,000 metres) and therefore it might still be possible to construct a GDF in suitable rocks below aquifers. The presence of natural resources, whilst important to siting, may not automatically exclude an entire area from further consideration and would be evaluated in detail as part of a full site characterisation process.

The initial findings of RWM as part of this initial evaluation work indicate that there are no fundamental constraints relating to construction and operational safety or security matters which would prevent the Area of Interest being considered further in the siting process. There are, however, a number of matters relating to the Safety and Security Siting Factor that have been identified that would need to be investigated further, should the Area of Interest progress through the siting process.

For example, the existence of Sellafield and LLWR, also within the Borough of Copeland, and the implications of having another nuclear site in the vicinity (a GDF) are matters that would need to be considered in more detail in due course if this area progresses. There are also nuclear facilities located at BAE Systems in Barrow-in-Furness associated with submarine manufacture.

RWM would also need to consider the impact of military aircraft low flying areas and tactical training areas as the wider area is known to be used extensively by the military for training purposes. The prison at Haverigg would also need to be further assessed.

## Community

**Based on the review of readily available information relating to the Community Siting Factor, RWM has concluded that the Area of Interest has potential to host a GDF.**

The construction and operation of a GDF has potential to provide direct and indirect employment opportunities over a very long period of time and to support a diverse economy in the area. This could be aligned to Copeland Borough Council's aspirations to promote the development of world class facilities, as well as being a centre of nuclear excellence.

Copeland has a long nuclear history and was described by the Borough Council in the 2016-2020 Growth Strategy as the "global heartland of the nuclear industry". At the centre of this heartland is Sellafield, which attracts around £2Bn of investment each year to support activities related to ongoing reactor operations support, spent fuel reprocessing and management of the UK's nuclear legacy [iii]. Approximately 11,000 people are directly employed by Sellafield Ltd on site [iv], with thousands more in the nearby supply chain, including small and medium sized enterprises. Every job at Sellafield sustains a further 2.8 jobs in the wider economy. Many of these individuals are in highly skilled engineering and scientific jobs. The nuclear sector, and its supply chain, is the major employer within the area, employing over 60% of all employees in the wider Copeland Area.

The Area of Interest is a particularly sparsely populated part of the Borough of Copeland and the wider Cumbria County Council area. The largest employers in the area are Her Majesty's Prison at Haverigg (approximately 250 staff) and a mineral extraction site (approximately 20 staff). There are very few other employment opportunities in the area and the main economic activity is hill farming on the fringes of the Lake District fells.

The nearest town is Millom, but opportunities for employment are understood to be extremely limited and to have declined since it was a busy port with a thriving iron ore industry. Other employment is found further afield to the south and east of Millom in Barrow-in-Furness and South Lakeland and within the Lake District tourist sector. Tourism in the Area of Interest is understood to be associated with quiet enjoyment of isolated beaches and low fells.

The community is separated from the rest of the Borough of Copeland by the Lake District National Park which reaches to the coast between Drigg and Kirksanton just north of the Area of Interest. The economic and transport links are understood to be stronger with Barrow-in-Furness to the south (which is approximately 15 miles by road or rail) and Lancaster to the east than with the district and county centres of Whitehaven and Carlisle to the north.

A mineral extraction site has been suggested as one potential location for the surface facilities associated with a GDF. At this early stage a detailed assessment of its suitability as a surface location has not been undertaken, but this could be explored further if this Area of Interest progresses through the siting process. The mineral extraction site is currently operational and produces high quality aggregates for anti-skid surfaces and roadstone. The workings are significant, being up to 50 metres deep and covering around 30 hectares, although they are very well screened by woodland from the surrounding area. Such visual screening could reduce the visual impact of the surface facilities, if the Area of Interest progresses through the siting process and the mineral extraction site is established as a suitable location for a GDF.

Millom Rock Park is a visitor attraction that opened in 2010 at the mineral extraction site. It gives a perspective on the geology of the Lake District and an insight into the workings of the mineral extraction site and the local mining industry. Rocks are on display (some quite large) which have been extracted from the mineral extraction site or brought from other quarries in Cumbria and Lancashire.

The existing tourism economy of the wider area is of local importance and it would be important to ensure that the features and assets that support and drive this economy are treated sensitively. Delivery of a GDF could provide the community with a real opportunity to create a GDF/scientific centre of excellence, which itself could become a tourist destination alongside the existing assets. For example, the French counterpart to RWM has developed an Environmental Observatory, an Environmental Specimen Bank and a Technological Exhibition Facility within the area in which they are intending to construct their GDF. These facilities in France attract over 10,000 visitors per year. Similarly, facilities constructed at Aspö in support of the Swedish spent fuel repository programme host 20,000 visitors per year.

It is acknowledged that there may be a need for additional homes for workers involved in the construction and operation of a GDF. RWM would work closely with the local authority and other relevant stakeholders to agree a local housing strategy.

Deciding on a suitable site for a GDF will take a number of years. This means that there is a real opportunity for a community to consider how a GDF could benefit that community over the long-term. There will be a wide range of support available to communities that wish to explore more fully what a GDF might mean to them. The process of building a Community Vision by the Community Partnership will help the community to identify and articulate what is important.

Copeland Borough Council was a key member of the local partnership considering the previous siting process for a GDF. In 2008, following public consultation, the UK Government and Devolved Administrations of Wales and Northern Ireland published the White Paper 'Managing Radioactive Waste Safely (MRWS) – A Framework for Implementing Geological Disposal'. Three Cumbrian local authorities: Allerdale Borough, Copeland Borough and Cumbria County Council chose to engage with the MRWS process, covering the areas of Copeland and Allerdale only. The three councils formed and led their own West Cumbrian MRWS Partnership body, with broad membership from other neighbouring local authorities, business, farming, tourism and a range of other local groups.

There were three rounds of public and stakeholder engagement. In the final opinion polling carried out by IPSOS Mori in 2012, there was net support (68%) within the Borough of Copeland for continuing the process [v].

Allerdale Borough Council, Copeland Borough Council and Cumbria County Council subsequently made their decisions in January 2013 about whether or not to participate in stage 4 of the process. This would have allowed desk-based studies to address technical questions and further consultation to begin identifying potential sites, with an ongoing 'Right of Withdrawal'. Both Copeland and Allerdale Borough Council decided to participate further in the siting process whilst Cumbria County Council decided to withdraw. As it had previously been agreed with UK Government Ministers that both tiers of local government would need to agree to participate in stage 4 of the process for either Allerdale or Copeland to proceed, this resulted in the end of that site selection process in west Cumbria.

RWM will work with the community to understand and share the lessons learnt from the previous siting process in order to aid the effectiveness of the current siting process.

In a separate process, a new nuclear power station was proposed for a site near the village of Kirksanton in April 2009. It was removed from consideration in October 2010. If this area progresses through the siting process RWM will review and revisit existing information that may be available. RWM would need to be mindful of the purposes of the historic information and conclusions drawn, and legislative and regulatory changes that may have occurred in the intervening years, but this information could enable RWM to enhance the understanding of the area.

## Environment

**Based on the review of readily available information relating to the Environment Siting Factor, RWM has concluded that, with appropriate mitigation, the Area of Interest has potential to host a GDF.**

The delivery of a GDF to safely and securely dispose of higher activity radioactive waste will be one of the largest environmental infrastructure projects in the UK. However, all major developments can have both positive and negative impacts on the environment. At this stage, with no specific surface sites for the surface facilities of a GDF decided upon, it is not possible to assess the potential impacts of delivering a GDF on the environment. A mineral extraction site has been suggested as one potential location for the surface facilities of a GDF. At this early stage a detailed assessment of its suitability as a surface location has not been undertaken, but this could be explored further if this Area of Interest progresses through the siting process.

Parts of the Area of Interest are protected due to their nature conservation interest<sup>7</sup> and RWM understands and fully supports that these protected areas need to be respected. RWM would seek to work with the local authorities, the community and relevant stakeholders to understand the natural environment in greater detail and consider the potential effects of delivering a GDF in the Area of Interest on the natural assets, in compliance with relevant legislation and policy.

The Lake District National Park is immediately adjacent to the Area of Interest that has been the focus of this initial evaluation work. The Lake District is England's largest National Park and designated as a World Heritage Site. Legislation provides a high degree of protection for National Parks. The Lake District National Park Authority, which is the local planning authority for the Lake District National Park, is in the process of updating its local plan. Of particular note is Policy 28, which states that *'We will not support a geological disposal facility for radioactive waste in or under the Lake District National Park'*. Whilst this local plan has not yet been adopted, it is apparent that the current view of the National Park Authority would be in conflict with the development of a GDF within or under the National Park.

---

<sup>7</sup> This includes areas that are protected under European and domestic legislation.



The area that has been suggested by the Interested Party is outside the boundary of the National Park, so the potential development of a GDF within the Area of Interest identified would be aligned to this draft policy position. In addition, during Initial Discussions with all of the Interested Parties in the Borough of Copeland, the Interested Parties have agreed that those areas of the borough currently located within the boundary of the Lake District National Park should be excluded from any consideration for hosting a GDF from the outset. The Policy confirms that the process to find a suitable location for a GDF is consent based. As such, this position will be respected by RWM and this will inform the identification of any future Search Area.

Representations have also been made to have the boundary of the National Park extended in order to take in land currently outside the boundary of the National Park, including parts of the Area of Interest that has been the subject of this initial evaluation work. Any future amendments to the boundary of the National Park that may come into effect would be recognised and respected should the Area of Interest progress through the siting process.

There may be opportunities to provide environmental enhancements as part of the delivery of a GDF through the provision of biodiversity enhancements, improving ecological networks or improving public access, if appropriate.

Based on the initial evaluation work carried out, RWM has not identified any fundamental environmental constraints which would prevent the Area of Interest from being considered further in the siting process. However, more detailed investigations and assessments would be required of a number of environmental matters which could have the potential to influence where the siting of surface facilities of a GDF could be delivered should the Area of Interest progress. For example, it is understood that areas around the town of Millom are currently subject to significant flood risk and there may be significant sea level rise in this area over the operational period of a GDF. Such matters would need further consideration.

## Engineering Feasibility

**Based on the review of readily available information relating to the Engineering Feasibility Siting Factor, RWM has concluded that, with appropriate design measures, the Area of Interest has potential to host a GDF.**

Based on the current geological understanding of the Area of Interest, there are several layers of potentially suitable host rocks, including beneath the inshore area, which could be accessed from a surface facility near the coast. Based on current estimates of waste volumes it is anticipated that there would be sufficient volume to dispose of the potential inventory for disposal.

The GDF surface facilities would require in the region of one square kilometre of land. The layout of the surface facilities would depend on the geography of a particular site, how much space is available, and the arrangement of existing infrastructure. The mineral extraction site void alone is unlikely to provide sufficient space for the full range of GDF facilities and the distance from/connectivity to the railway is an engineering challenge but, at this stage, there is nothing to rule out its use for some elements of a GDF utilising a 'split site' design.

RWM would work collaboratively to develop safe and secure designs of the surface facilities and identify a potential location for a GDF that responds to local priorities and the natural environment. The construction and continued operation of a GDF would result in the generation of excavated spoil and there could be opportunities to reuse the spoil locally, for instance in support of flood mitigations or habitat creation and enhancement and other potential infrastructure schemes.

The siting of a GDF in the Area of Interest will need to take account of coastal erosion and potential coastal flooding hazards. However, there is the potential that the coastal defences of a GDF sited in a coastal area, such as the Area of Interest, could contribute to the local coastal defence plans.

By applying 'good design' principles RWM would seek to ensure that the delivery of a GDF is sensitive to the local area, efficient in the use of natural resources and energy used in construction, and that the designs of surface facilities are sympathetic to the local environment, as far as practicable.

At this stage, although a mineral extraction site has been suggested as one potential location for the surface facilities of a GDF, no specific surface sites for the surface facilities have been decided upon, but there is no reason to suggest that it would not be possible to find a suitable location. It would be important to ensure the delivery of sensitively and appropriately designed buildings and security arrangements that are sympathetic to the character of the local area. RWM would seek to work collaboratively with the community to ensure that their preferences are taken into account.

Several major faults with offsets of at least 200 metres are identified across the area. This is not unusual as faults are common in the underground environment. RWM's designs would need to take account of the impact of faults on both the GDF and the shafts and tunnels that might be constructed to access it from the surface.

## Transport

**Based on the review of readily available information relating to the Transport Siting Factor, RWM has concluded that the Area of Interest has potential to host a GDF.**

Throughout the lifetime of a GDF, transport links to the facility will be vital. Transport would be required for construction materials for the underground and surface facilities and associated infrastructure; radioactive waste for disposal; movement of spoil and backfill materials (this may also include materials for surface bunds and site flood mitigations, if required); and personnel during all phases.

Existing routes may need to be enhanced to deliver a GDF. This could have significant benefits for local communities, as it is recognised that the wider area is relatively isolated from major transport links. The local council also acknowledges a local desire for improved transport and linking road and rail services. The delivery of a GDF may open up opportunities to provide sustainable transport infrastructure to support the necessary construction and operational activities that could also benefit local connectivity. This could include improvements to both the local road network and the local rail network, both of which have been identified as requiring improvements. RWM would seek to work with relevant stakeholders to understand the improvements that are planned and schedules for delivery.

It is recognised that Sellafield, where a large proportion of the waste likely to be disposed of in a GDF is currently located, is accessible via the local rail network that connects to the LLWR site. Therefore, if a GDF was linked to this same rail network it would provide the option to move waste packages on a route that has already been demonstrated as suitable.

This Area of Interest offers potential for sea transport for movements of construction materials, spoil and radioactive packages. The Area of Interest has access by road and rail to the port at Barrow-in-Furness that is currently used for nuclear shipments to and from Sellafield. Based on the information available, the port of Workington, though further afield, also appears to be potentially suitable for the majority of the expected radioactive package and construction-related movements required. Millom was formerly a working port and further study may identify additional potential here too. The utilisation of sea transport could bring additional benefits through any required infrastructure upgrades, as well as reducing the impact of land-based transport.



## Value for Money

**Based on the review of readily available information relating to the Value for Money Siting Factor, RWM has concluded that the Area of Interest has potential to host a GDF.**

At this early stage in the siting process there are many uncertainties that would influence the overall programme cost and delivery schedule. However, at this stage there is nothing to suggest a GDF located in this Area of Interest would have particularly high costs relative to other locations.

# 3. Conclusion

**Having considered the readily available information, and particularly the National Geological Screening outputs, RWM has concluded that the Area of Interest has potential to host a GDF.**

This Initial Evaluation Report presents the findings of work to evaluate the potential of the Area of Interest against the six identified Siting Factors set out in RWM's Site Evaluation document. In undertaking this evaluation RWM has used high level, existing and readily available information.

This is the first stage of evaluation and further work drawing upon additional sources of information and data would be required if this Area of Interest were to be considered further in the siting process. However, at this stage nothing has been identified which would prevent the development of a GDF in the Area of Interest and therefore **RWM has concluded that the Area of Interest has the potential to host a GDF.**

This initial work has developed the understanding of whether the Area of Interest holds any potential to host a GDF, together with early identification of known constraints, uncertainties and opportunities for further work if it progresses through the siting process. **However, it is important to note that these initial evaluations have not yet confirmed whether the Area of Interest identified is suitable to host a GDF** and further work would be required to establish this.

# 4. Potential Future Work

If this Area of Interest were to move forward in the siting process RWM would work collaboratively with the local community and relevant stakeholders on the following areas:

- Existing and future aspirations for the area and how delivery of a GDF could be aligned to local priorities;
- The sensitivities of the local natural environment and the potential implications of delivering a GDF, whether there could be alignment with local environmental objectives, and the potential to deliver environmental enhancements to designated areas and sites;
- How RWM could work collaboratively with all relevant stakeholders to develop safe and secure potential design solutions and identify potential locations for a GDF that are sensitive to local priorities and the legislative, policy and regulatory frameworks within which RWM must operate;
- How the delivery of a GDF would affect existing residents and businesses and how RWM could support all people living in and around the area by adding real value through the whole siting process such that benefits could start to be realised in the near future including through the use of Community Investment Funding;
- The implications of a GDF on existing infrastructure, such as Sellafield and BAE Systems; and
- The existing transport related challenges of the area and the transport related implications associated with the development of a GDF. This could include consideration of the potential to transport freight to the area via sea and how benefits could be realised as a consequence of any infrastructure upgrades that may be required.

# 5. Next Steps

RWM and the interested party may continue to hold Initial Discussions to consider the implications of this report and other matters. These discussions may remain confidential, though they should be made public at the earliest opportunity if this Area of Interest progresses through the siting process.

Following the completion of the initial evaluation work by RWM during Initial Discussions, all of the Interested Parties in the Borough of Copeland have agreed that they would work together to form a single Working Group to further explore the potential to host a GDF.

An early task for the Working Group would be to identify a Search Area. The Search Area is the geographical area within which RWM would seek to identify potentially suitable sites to host a GDF. The position that has been expressed by the Interested Parties with respect to the exclusion of the Lake District National Park will inform the identification of the Search Area. The Policy confirms that a Search Area is to be delineated using the district electoral ward boundaries that are not aligned with the boundaries of the National Park. For the Area of Interest referred to in this report this would be Black Combe and Scafell Ward, the whole of which could benefit from Community Investment Funding should the area progress to for a Community Partnership.

The Working Group would also start to gather information about the people and organisations in the area that are likely to be affected or have an interest in a GDF with a view to identifying members for a formal Community Partnership. Further information can be found in RWM's Community Guidance document [vi].

As part of the preparation for the formation of a Working Group, RWM can provide support and advice on engaging with stakeholders and the wider public.

**Community Guidance**

Guidance that RWM has developed to provide information, help and advice in support of the policy frameworks that exist in England and Wales. It is for anyone who is interested in learning more about geological disposal and the process for identifying a site for a GDF.

**Community Partnership**

The partnership between the members of the community, at least one Relevant Principal Local Authority and RWM.

**Geological Disposal Facility (GDF)**

A geological disposal facility is a highly-engineered facility capable of isolating radioactive waste within multiple protective barriers, deep underground, to ensure that no harmful quantities of radioactivity ever reach the surface environment.

**Initial Discussions**

Early contact with an Interested Party to help them to find out more about the Siting Process; to understand whether a site/area put forward has any potential to host a GDF; and to help them to decide whether they want to seek to form a Working Group and open up a wider discussion.

**Interested Party**

The group, organisation, or individual(s) who first started discussions with RWM.

**Inshore Area**

The inshore is defined as the UK Territorial Waters which extend up to 12 nautical miles (22.2 km) from the Mean Low Water Mark.

**Inventory for Disposal**

The specific types of higher activity radioactive waste (and nuclear materials that could be declared as waste) which may need to be disposed of in a GDF.

**National Geological Screening (NGS)**

The National Geological Screening provides a high-level summary of the existing geological information of relevance to the safety of a GDF to inform initial discussions with communities.

**Nuclear Decommissioning Authority (NDA)**

A non-departmental public body established by the Energy Act 2004 to ensure the safe and efficient clean-up of the UK's public sector, civil nuclear legacy. The NDA has statutory responsibility for decommissioning and cleaning-up 17 UK sites and the associated liabilities and assets. It reports to the Department for Business Energy and Industrial Strategy (BEIS); for some aspects of its functions in Scotland, it is responsible to Scottish Ministers.

**Policy – The Working with Communities Policy**

*'Implementing Geological Disposal – Working with Communities'*, An updated framework for the long- term management of higher activity radioactive waste, HM Department for Business, Energy and Industrial Strategy, (December 2018).

**Potential Host Community**

The Potential Host Community is the community within a geographical area that could potentially host a GDF.

**Radioactive Waste Management Ltd (RWM)**

A wholly-owned subsidiary of the Nuclear Decommissioning Authority, established in 2014 for the purpose of delivering geological disposal and providing solutions for the management of higher activity waste.

**Relevant Principal Local Authorities**

A principal local authority is a district, county or unitary authority. Relevant principal local authorities will be the principal local authorities that represent people in all or part of the area under consideration, whether the Search Area or the Potential Host Community.

**Right of Withdrawal**

The ability for a community or RWM to withdraw from the siting process.

**Search Area**

The Search Area is the geographical area encompassing all the electoral wards within which RWM will be able to search for potential sites. For areas which include potential for development under the seabed, the Search Area will comprise only that area on land.

**Test of Public Support**

A mechanism to establish whether residents of the Potential Host Community support the development of a GDF within their community.

**Working Group**

The Working Group is formed in the early part of the GDF siting process in order to gather information about the community and provide information to the community about geological disposal before a Community Partnership is formed. It comprises the Interested Party, RWM, an independent facilitator, an independent chair and any relevant principal local authorities that wish to join.

# Sources of Information used to support Initial Evaluations

British Geological Survey (BGS) - National geological model.

Copeland Borough Council - *Corporate Strategy 2016 – 2020*.

Copeland Borough Council - *Growth Strategy 2016 - 2020*.

Copeland Borough Council - *Commercial Strategy 2016 – 2020*.

Copeland Borough Council - *Efficiency Plan 2016 - 2020*.

Copeland Borough Council - *Income Generation Strategy 2016*.

Copeland Borough Council - *Thriving Places Index 2019*.

Copeland Borough Council - *Copeland Local Plan 2017-2035 – Issues and Options, October 2017*.

Copeland Borough Council, *Copeland Local Plan 2013 – 2028, Core Strategy and Development Management Policies DPD*, Adopted December 2013.

Copeland Borough Council, *Strategic Flood Risk Assessment (SFRA)*, August 2007.

Copeland Borough Council, *Integrated Assessment of the Copeland Local Plan – Integrated Assessment Scoping Report – Consultation Draft*, January 2018.

Cumbria County Council – *Council Plan 2018 – 2022*.

Cumbria County Council, *Millom and Haverigg Flood Investigation Report – 17th September 2017*, (published) June 2018.

Cumbria Intelligence Observatory, local data for Millom Without.

Cumbria Intelligence Observatory, local data for Haverigg.

Cumbria Local Enterprise Partnership and Copeland Borough Council – *Cumbria Nuclear Prospectus: Energising the Energy Coast* – August 2020.

Cumbria Resilience Forum - *Cumbria Floods November 2009 – Learning from experience – Recovery phase de-brief report*, April 2011.

Department for Business, Energy and Industrial Strategy - *National Policy Statement for Geological Disposal Infrastructure – A framework document for planning decisions on nationally significant infrastructure, Presented to Parliament July 2019.*

Friends of the Lake District - *Lake District Peninsulas and Estuaries – A Proposal to Extend the Boundary of the Lake District National Park, June 2019.*

Lake District National Park Authority, Local Development Framework – *Core Strategy including Proposals Map*, Adopted October 2010.

Lake District National Park Authority, Pre-Submission Lake District Local Plan 2020- 2035, April 2019 (and supporting documents).

Millom Without Community Plan, 2019.

National Geological Screening – Northern England – Regional Geology – RWM 2018.

National Geological Screening – Northern England Subregion 4 - RWM 2018.

National Geological Screening: Northern England Region - Minerals and Waste Programme Commissioned Report CR/17/095 – BGS 2018.

West Cumbria Managing Radioactive Waste Safely Partnership - The Final Report (August 2012).

West Cumbria: Opportunities and Challenges 2019, Cumbria Community Foundation.

# Mapping Data

## Endnotes

### Mapping Data

OS Boundary Line Open Data, January 2020 Ordnance Survey data © Crown copyright and database right
Natural England Open Data, June 2019 © Natural England copyright
Lake District Peninsulas and Estuaries – A Proposal to Extend the Boundary of the Lake District National Park – Friends of the Lake District, June 2019

### Endnotes

- i. Implementing Geological Disposal – Working with Communities, An updated framework for the long-term management of higher activity radioactive waste. HM Department for Business, Energy and Industrial Strategy (December 2018).
- ii. Site Evaluation – How we will Evaluate Sites in England, RWM (February 2020).
- iii. Cumbria Local Enterprise Partnership and Copeland Borough Council – Cumbria Nuclear Prospectus: Energising the Energy Coast (August 2020)
- iv. The Economic Impact of Sellafield, Oxford Economics (June 2017).
- v. The Final Report, West Cumbria Managing Radioactive Waste Safely Partnership (August 2012).
- vi. Community Guidance for England, RWM (December 2018).



Certificate No LRQ 4008580

**Radioactive Waste Management Limited**

Building 329  
Thomson Avenue  
Harwell Oxford  
Didcot  
OX11 0GD

**t** +44 (0)1925 802820

**f** +44 (0)1925 802932

**w** [www.nda.gov.uk/rwm](http://www.nda.gov.uk/rwm)

© Nuclear Decommissioning Authority 2020