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SCOTT BROS. LIMITED

GRANGETOWN SOIL WASH FACILITY

HABITATS, AMENITY AND ACCIDENT RISK ASSESSMENT

JUNE 2023



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DRAWINGS	TITLE	SCALE
BM12258-001	Site Location Plan	1:20,000
BM12258-002	Site Layout Plan	approx.1:500

1 INTRODUCTION

- 1.1.1 This Amenity and Accident Risk Assessment document has been prepared by Wardell Armstrong LLP in support of the Application by Scott Bros. Limited to the Environment Agency for an environmental permit to operate a soil washing facility. It also contains details of the habitats risk assessment for the site and Activities.
- 1.1.2 The Grangetown Soil Wash Facility is located to the east of John Boyle Road in in the Grangetown area of Teeside. The purpose of this Application for an environmental permit, it to allow for the site to accept 700,000 tonnes of soils and aggregate type waste materials per year to treat and segregate the materials for onward use.
- 1.1.3 The Activities undertaken on site will be in accordance with Environment Agency Guidance. Planning permission for the site has been granted by Redcar and Cleveland Borough Council and has been provided as part of the supporting information for this Application.
- 1.1.4 The site location and permitted site boundary are shown on drawings, referenced BM12258-001 and BM12258-002 respectively.
- 1.1.5 The operation will be completed in accordance with Scott Bros. Limited's Environmental Management System, which includes a variety of procedures including those for managing and mitigating litter, dust, mud and noise.

2 SENSITIVE RECEPTORS

- 2.1.1 The site is located at National Grid Reference (NGR) NZ 54198 21250, approximately 0.85km east of South Bank Station and 1.6km north-west of the centre of the Grangemouth area of Teeside. More information is shown on drawing reference BM12258-001, site location.
- 2.1.2 The site is located in a heavy mixed industrial setting, with the site bound to the:
 - North by the Tees Valley line rail line, beyond which is an Old Iron Works and further wasteland and then the River Tees;
 - East by further wasteland and then the Tata Steel works;
 - South by John Boyle Road, beyond which is a freight and haulage centre, with multiple industrial properties and vehicle yards and some waste land to the south east.
 - West by further industrial properties.
- 2.1.3 The nearest residential receptor to the site is located approximately 370m to the south of the site on Jones Road, beyond a logistics yard and the A66 dual carriageway.
- 2.1.4 The impacts of noise and particularly dust will be assessed in regard to nuisance to the residential properties located closest to site, but at that distance and given the nature of other sources located between site and the receptor, impacts from the Activities are expected to be very limited.
- 2.1.5 Sensitive receptors located within 2km of the site are presented in Table 1, below.
- 2.1.6 Notwithstanding the setting of the site and other land uses in the area, strict control measures will be in place to minimise any emissions and therefore impact of the site.

Table 1 Sensitive receptors located within 2km of the Site boundary			
Type of Receptor	Receptor name	Location (NGR)	Location in respect to the Site
Residential	Jones Road	NZ 53786 20852	260m S
	Properties on Elgin Avenue	NZ 54517 20554	750m SSE
	St James Court	NZ 54774 20666	780m SE
	Grangemouth main residential area	NZ 54926 20691	850mSE

Table 1 Sensitive receptors located within 2km of the Site boundary			
Type of Receptor	Receptor name	Location (NGR)	Location in respect to the Site
	Southbank main residential area	NZ 53626 20796	300m SSW
	Teesville main residential area	NZ 53833 19645	1.4km S
Commercial	Trigiene Handpiece Repair	NZ 54198 21186	54m S
	Cleveland Truck Stop Cafe	NZ 53704 21131	50m W
	Jazzyballoons (South Tees Business Centre)	NZ 53476 21019	280m W
	Mr Chips South Bank	NZ 53451 20824	375m WSW
	Cleveland Retail Park	NZ 53149 19778	1.4km SW
	Asda Supermarket	NZ 53347 21079	400m W
	Restaurant Chains	NZ 53017 20775	800m W
	Teaside Autodrome	NZ 52626 20771	1.1km W
	Retail Park (Tesco/ Aldi)	NZ 54053 20052	1.2km S
	Eston Leisure Centre	NZ 54690 20096	1.4km S
Industrial	Freight and Haulier Yards (various businesses)	NZ 54129 21208	30m W
	Trigiene	NZ 54202 21194	30m S
	Metador	NZ 54214 21147	60m S
	Old Iron Works	NZ 54012 21517	250m N
	Titan Trailers	NZ 54536 20922	430m SE
	British Steel Lackenby	NZ 55162 21369	950m E
	Highfield Environmental Landfill	NZ 54604 21868	700m NE
	Skippers Lane Industrial Estate	NZ 53044 20260	1.2km SW
	Tilbury Road Industrial Estate / Yards (various businesses)	NZ 53346 21139	400m
	Bolkow Industrial Estate (various businesses)	NZ 54554 20700	600m SE
Smith's Dock	NZ 53078 21646	900m NW	
Infrastructure	John Boyle Road	NZ 54154 21229	Adjacent to site (W)
	Puddlers Road	NZ 53738 21080	Adjacent to site permit boundary (S)

Table 1 Sensitive receptors located within 2km of the Site boundary			
Type of Receptor	Receptor name	Location (NGR)	Location in respect to the Site
	Electricity Substation	NZ 54101 21328	100m NW
	Middlesbrough Road East	NZ 54235 21073	160m S
	Tee Valley Line Railway	NZ 54090 21463	50m N
	AVG Biogas Plant	NZ 52908 21107	850m W
	A66 Road	NZ 53719 20921	170m S
	South Bank Train Station	NZ 53344 21265	400m W
Other Sensitive Receptors	Mannion Nature Park (Community Garden Space)	NZ 53613 20858	250m SW
	St Peter's RC Church	NZ 53208 20827	600m W
	St Peter's Catholic College	NZ 53764 20167	900m S
	Cleveland Police / Fire and Rescue	NZ 54639 20122	1.1km SSE
Rivers, Streams and Drains	River Tees (Teesmouth and Cleveland Coast SSSI)	NZ 52937 22082	1.1km NNW
	Knitting Wife Beck (Land Drain at Landfill)	NZ 54960 22019	980m NE

3 RISK ASSESSMENT

- 3.1.1 Table 2 below identifies the potential amenity risks that may arise from operations at the soil washing facility and considers the possible pathways of transmission and receptors that may be impacted.
- 3.1.2 The risk assessment shows how these risks are minimised; by preventing the hazard at source or by providing other measure by which the pathway is broken and migrating pollution cannot reach the sensitive receptors.
- 3.1.3 Additional consideration has been given the habitats risk assessment of the proposed Activities on site, given the proximity of the River Tees, which has designations of a Site of Special Scientific Interest (SSSI) and Ramsar site. Further assessment specific to habitats and species is provided in section 4 of this document.
- 3.1.4 All identified hazards that could cause harm will be subject to strict preventative or control measures managed in accordance with the site's Environmental Management System.
- 3.1.5 The site will be operated in accordance with written procedures within the Environmental Management System (EMS).
- 3.1.6 Staff will be trained to understand the potential environmental risks associated with the site and their role in managing those risks in accordance with the EMS. An induction will also be provided for contractors, so that they are aware of any environmental requirements.
- 3.1.7 The EMS will include procedures for the inspection, servicing and maintenance of site plant and infrastructure so that all pollution control measures remain fit for purpose.

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
Odour							
Fugitive emissions from material on site	Local residents and local businesses	Airborne	Annoyance, potential health hazards	Low	Very Low	No malodorous materials will be accepted at the site. The material to be treated is non-hazardous excavation and construction/demolition waste. Any odorous loads will be rejected. The site will be inspected daily and any noticeable odour will be investigated and where appropriate remedial action will be undertaken.	Very Low
Leaching from Stockpiled soils							
Leachate forming from stockpiled soil entering ground beneath site and groundwater	Ground beneath site and groundwater	Leaching via ground	Contaminants of concern entering local groundwater regime	Low	Low	All materials accepted onto site for treatment in the soil washing facility will all be non-hazardous or inert materials, therefore unlikely to contain any contaminants of concern. Any non-inert material will be stored on a concrete pad with drainage collected in a sealed sump on site and reused in the process. Product or waste that is proven inert may be stored in other areas of the site, but the material stored here will be restricted as there are older concrete pads and the drainage is unproven.	Very Low

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
						Stockpiles will be engineered/shaped by mobile plant to prevent any pooling of water and will ensure maximum run off of any rainwater without leaching through the stockpiled soils as far as is possible.	
Litter							
Fugitive emissions from soil materials or other areas on site	Local residents, local businesses and site operatives	Airborne	Disturbance or annoyance for local residents	Very Low	Very Low	Permitted soil materials have a very low litter potential and will not typically contain plastic, paper or other materials that can be easily wind-blown. The site will be inspected on a daily basis and any loose material noted will be collected and placed in bins provided on site for the storage of litter.	Very Low
Pests and Vermin							
Presence of pests and vermin onsite	Local residents, local businesses	over the ground	Potential harm to human health resulting from diseases, annoyance	Low	Very Low	Permitted materials are soils and not attractive to pests or vermin. The site will be kept tidy to prevent the accruing of material that may provide nests for vermin. The site will be inspected on a daily basis and any signs of infestation will be noted. Should pests be observed, a pest control contactor will be required to attend the site.	Very Low
Noise							



Table 2 Risk Assessment

Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
Noise from plant or machinery	Local residents and local businesses	Airborne	Disturbance for local residents. Potential impacts upon the psychological health of those nearby	Low	Low	<p>The nearest residential receptor is over 350m from the site.</p> <p>All plant and equipment will be maintained in accordance with the manufacturer's recommendations.</p> <p>Drop heights will be minimised where possible and double handling of soils will be avoided wherever possible.</p> <p>Noise levels will be taken into consideration during the selection of site equipment, with quieter models being utilised where this is practical and economically viable.</p> <p>Engines of delivery vehicles will be switched off where possible to prevent excessive noise. Plant may be fitted with engine silencers and smart reversing alarms.</p> <p>Operations will be restricted to day-time hours to minimise disturbance at night.</p>	Very Low



Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
						The site will comply with planning conditions relating to noise levels.	
Dust							
Dusty inert materials or dust around site	Local residents, local businesses and site operatives Teasmouth and Cleveland Coast (SSSI & Ramsar Site)	Airborne	Annoyance for local residents and site workers. Impacts upon human health as a result of dust inhalation	Medium	Medium	<p>Vehicles entering and leaving the site that may contain dusty material will be covered or sheeted.</p> <p>Site roads will be damped down as appropriate. In order to prevent the dispersal of any dust that is created at the site, water from a bowser may be applied to roads, surfaces or inert materials in order to limit dust in dry weather or during dusty operations.</p> <p>The site entrance will be swept as necessary and facilities to clean vehicles will be provided to minimise dust and mud around the site entrance.</p> <p>Most sensitive receptors (not in an industrial setting) are >200m from the site and any dust is likely to have dropped out within this distance.</p> <p>Stockpiles will be located to minimise exposure to the wind, oriented to avoid wind whip and if necessary will be covered over where appropriate and possible.</p>	Low



Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
						<p>Materials for disposal or restoration placed in storage stockpiles will be placed and compacted as soon as possible.</p> <p>Processing is a wet process and will not generate dust.</p> <p>Dust Management Plan in place.</p>	
Mud							
Mud on local roads	Road users	Ground	Road traffic accidents	Medium	Medium	<p>The site entrance will be swept at regular intervals to prevent any build-up of mud. Vehicles will be inspected before leaving the site and will be cleaned if necessary to prevent mud being tracked onto the adjacent highway.</p> <p>Should significant quantities of mud be tracked out of the site, this will be swept as soon as possible by mechanical sweeper.</p>	Low
Abnormal Operating Scenarios							
Fluid Leak or spillage	Nearby Surface water bodies, Groundwater	Via drains, infiltration through soils or direct contact	Pollution of surface water and impact on aquatic ecosystem;	Low	Low	<p>Plant will be inspected daily and serviced in accordance with the manufacturer's recommendations.</p> <p>Fuel and other potentially harmful fluids for use in site plant will be stored in a sealed tank or container with</p>	Very Low

Table 2 Risk Assessment

Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
			pollution of groundwater			<p>secondary containment. Tanks will be bunded, with the bund providing 110% of the capacity of the largest tank.</p> <p>Deliveries and fuelling will be supervised to ensure that any leakage or spillage is detected immediately and contained. Filling points and hoses will be located inside the bund. The level of liquid within the tanks will be checked before filling to avoid over filling.</p>	
Plant or Equipment Failure	Local residents and local businesses and/or nearby surface water bodies and groundwater	Airborne, direct contact or via infiltration through soils	<p>Disruption of site activities.</p> <p>In the event of damage to plant or machinery, noise, fires or spillages may occur.</p> <p>Damaged equipment may pose a health risk.</p>	Low	Low	<p>Plant and equipment will be inspected and maintained in accordance with legal requirements and the manufacturer’s recommendations.</p> <p>In the event of damage to plant or equipment or loss of function, suitably qualified engineers will repair the equipment as soon as possible. Damaged plant will be taken out of use until repairs have been completed. Where necessary additional plant will be hired so that the site can be managed effectively.</p> <p>Site operations may be suspended temporarily where this is necessary to prevent pollution.</p> <p>Only suitably qualified staff will operate machinery.</p>	Very Low

Commented [CA1]: What about site surfacing and drainage

Commented [CP2R1]: See above comment – awaiting confirmation on site drainage details

Table 2 Risk Assessment							
Hazard	Receptor	Pathway	Consequence	Probability of exposure	What is the overall risk	Mitigation Measures	Residual Risk
						All site plant will be equipped with fire extinguishers which will allow for firefighting in the event of a fire.	

4 PROTECTED HABITATS AND SPECIES

4.1 General and Designations of Sensitive Receptors

- 4.1.1 Conducting a data search of mapping on the Defra MAGIC.gov.uk site confirms that the River Tees is designated as an SSSI at its closest point, approximately 1060m north west of the site. A smaller area of the River is designated as a Ramsar site, approximately 1,300m northwest of the site. This site is therefore within 2km of the soil washing facility. The sensitive receptor is named 'Teesmouth and Cleveland Coast' for all designations.
- 4.1.2 The Sensitive receptor is also designated as Priority Habitat, Mudflats and an Intertidal Substrate Foreshore.
- 4.1.3 A screen grab of the MAGIC mapping is shown below in Figure 1, with the red dot showing the approximate location of the site and the expanded circle showing the 2km buffer around the site. The green hatched area shows the extent of the SSSI, SPA and Ramsar unit.

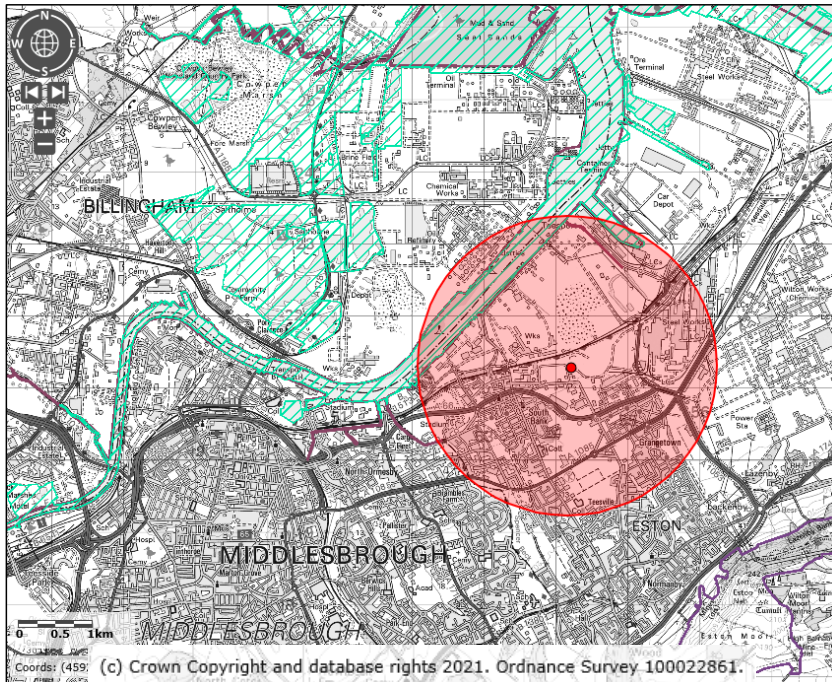


Figure 1. Site Location in relation to Teesmouth and Cleveland Coast.

4.1.4 MAGIC has identified that there are a number of areas present within a 2km radius of the site, which are deciduous woodland. The closest of these is approximately 400m to the south.

4.2 Species

4.2.1 MAGIC mapping identifies that there may be a number of priority bird species in the area (within 2km), including curlew, grey partridge, lapwing, redshank, snipe, tree sparrow and yellow wagtail.

4.3 Potential Impact Prevention

4.3.1 The Environment Agency guidance identifies the following potential impacts which may be caused by Activities:

- Eutrophication/nutrient enrichment;
- toxic contamination;
- habitat loss;
- smothering;
- disturbance; and
- physical damage.

4.3.2 Taking these risks in turn, eutrophication may occur when nutrients are washed into nearby water bodies causing a rapid increase in the number of bacteria and other simple organisms. This in turn leads to rapid depletion of oxygen levels, which can adversely impact fish.

4.3.3 The majority of the waste treated on site will be inert or predominantly inert material and by nature of its classification is unlikely to generate leachate which would contain nutrients or compounds that would cause eutrophication.

4.3.4 Strict pre-acceptance and acceptance procedures will be in place at the site to ensure no materials are present at site that are not permitted. All loads of soils will be visually inspected to ensure they are compliant with the permit conditions.

4.3.5 Materials will be treated on an impermeable pavement with a sealed drainage system, with drainage collected in a sealed sump. Unless proven to be inert waste will be

stored on this same concrete pad with sealed drainage. Inert product from the wash plant or materials that are proven inert may be stored elsewhere on site.

- 4.3.6 As far as possible surface water collected at the site will be recycled into the soil washing process, including surface run-off from storage stockpiles for non-inert waste on site, with water being collected in a sealed sump. This will serve to limit any risk to the surrounding groundwater regime and will not affect the surface water regime in the wider area around the site.
- 4.3.7 Toxic contamination will be controlled in the same way as eutrophication. The combination of restricting the types of material to non-hazardous and inert materials, process maintenance, strict material acceptance procedures and presence of an impermeable surface with sealed drainage for all non-inert materials will ensure that no contaminants enter the River Tees.
- 4.3.8 There will be no habitat loss as a result of the soil wash facility or associated Activities. The River Tees and other protected habitats are some distance from the site and will not be impacted by the facility. The facility is being developed in what is an existing industrial set wasteland with concrete aprons and foundations in place. It is considered that protected birds are likely to use the mudflats and estuarine areas, as well as other less industrialised green areas around the site and are unlikely to be present at the facility itself.
- 4.4 Smothering can occur where there are large scale emissions of dust, which can have an adverse impact on local vegetation. As part of the environmental controls to be in place at the site dust management procedures have been developed. These will include:
- vehicles delivering soil materials to the site are to be sheeted or enclosed;
 - a speed limit will be in place to minimise disturbance of dust;
 - drop heights for delivery will be minimised where possible;
 - metalled roads will be swept on a regular basis to minimise dust and debris that may be present;
 - stockpiles of soil, aggregate or other treated materials will be managed to minimise windblown dust by shaping and orienting them to minimise wind whip;
 - materials will be compacted as soon as possible after it has been deposited;
- and

- a bowser will be available on site and where necessary site roads and working areas will be damped down with water.

4.4.1 These control measures will ensure that emissions of dust are minimised and it is not considered that dust will cause any significant impact on protected species or habitats, especially given the relative distance to the River Tees, Teesmouth and Cleveland Coast site.

4.4.2 It is not considered that the soil washing facility will cause undue disturbance to the local bird population due to emissions of noise. The existing industrial setting of the site and nearby railway line means that it is unlikely this facility will have any net effect on the local noise and vibration setting of the area.

4.4.3 To demonstrate that the site will minimise emanations of noise, the following control measures will be in place:

- plant will be properly maintained in accordance with the manufacturer's recommendations;
- noise will be a consideration in purchasing equipment and quieter models will be used where practicable;
- idling and reversing will be minimised by good traffic management on site;
- reversing alarms will be selected with due regard to minimising noise nuisance;
- all site plant must comply with the on-site speed limit; and
- drop heights will be minimised.

4.4.4 The soil washing operations will not cause any physical damage to protected species or habitats. The protected habitats and species are considered to be too far from the site to be impacted by site operations.

4.4.5 No litter will be generated on site by the receipt of soils and inert materials therefore no risk of harm to local wildlife will arise from items of litter being present. Waste acceptance procedures will be in place to check that only suitable materials are accepted on site and the risk of litter is minimised. Daily checks will be made around the site and any litter will be collected and disposed of safely.

5 CONCLUSION

- 5.1.1 The design, procedural and operational measures at the soil washing facility will ensure that the Activities do not present an unacceptable risk to the environment or people.
- 5.1.2 It is considered that despite the presence of the designated statutory Teesmouth and Cleveland Coast site within 2km of the site, the risk of impacts posed by the Activities at the soil washing facility are not significant given the distances between sites and measures that will be in place to mitigate against any fugitive emissions. In addition to the distance, the tidal nature of the SSSI/Ramsar site, which would mean that any deposition of dust would quickly be 'flushed' out into the estuary and not cause any smothering.
- 5.1.3 The risks and impacts posed to other local habitats and species are also considered to be negligible due to the distances involved, nature of the Activities, mitigation in place and existing setting of the soil washing facility.
- 5.1.4 In practice, all identified hazards that hold the potential to pose a risk of harm are subject to strict preventative measures or controls at the site, ensuring that any risks are minimised. The Environmental Management System used by Scott Bros. Limited will be audited annually to ensure that operations are carried out in accordance with these measures.

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