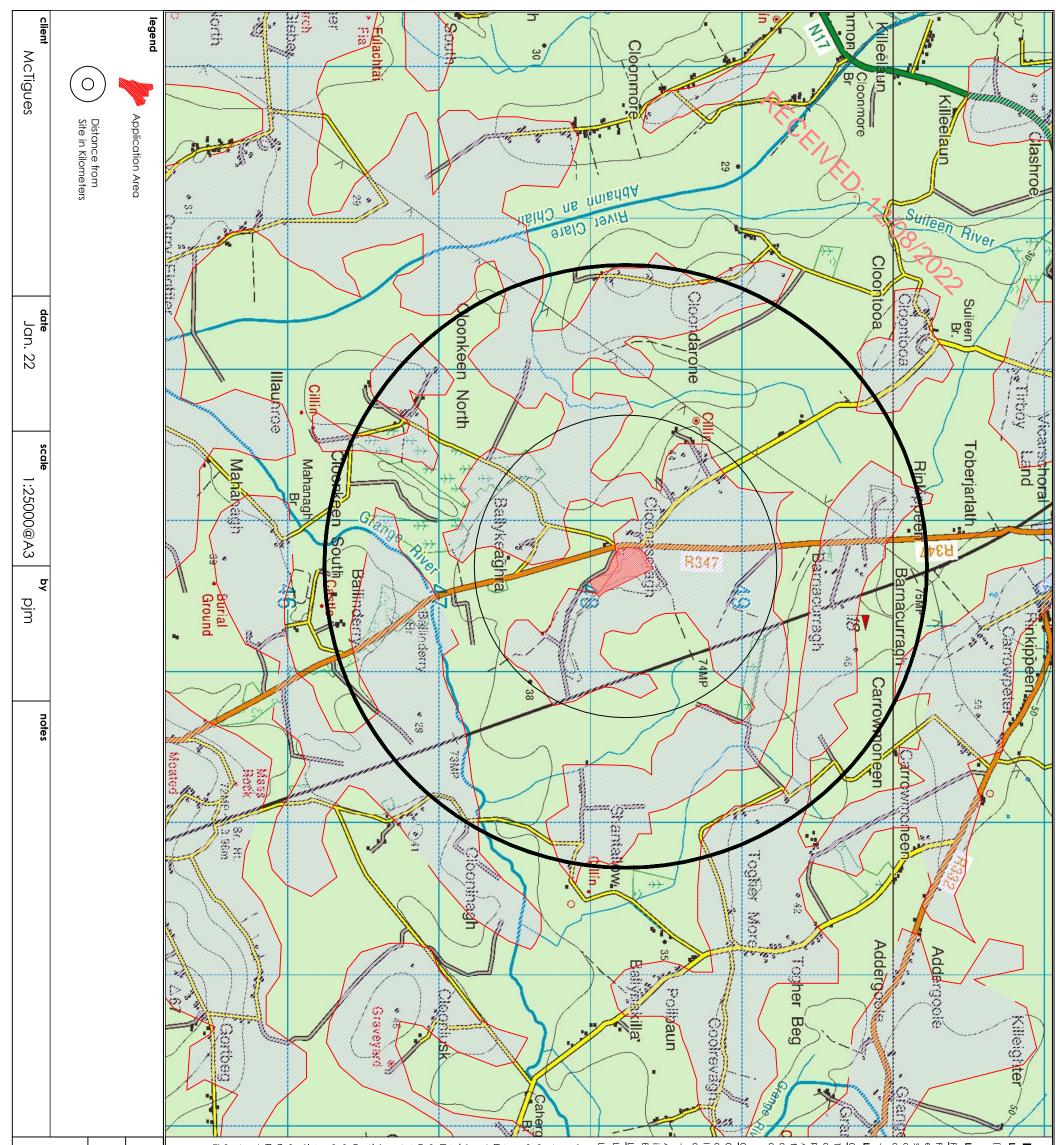


Location & Contex		
<u> </u>		
andscapearchitecture 59 Ormeau Road Belfast 07775752010 Dete@mullin.ie mail@mullin.ie		



andscape Character

Landscape Conservation & Management Policies & Objectives (Extracts from Galway County Council Development Plan 2015-2021)

andscape Conservation and Management Policies

olicy LCM 1 – Preservation of Landscape Character

Preserve and enhance the character of the landscape where, and to the extent that, in the opinion of the Planning Authority, the proper planning and sustainable development of the area requires it, including the preservation and enhancement, where possible of views and prospects and the amenities of places and features of natural beauty or interest.

Landscape Conservation and Management Objectives

Objective LCM 1 – Landscape Sensitivity Classification

proposals and, where necessary, require a Landscape/Visual Impact Assessment to accompany such proposals. This shall be balanced against the need to develop key strategic infrastructure to meet the strategic aims of the plan, and having regard to the zoning objectives of serviced development land within the Galway Metropolitan Areas. The Planning Authority shall have regard to the landscape sensitivity classification of sites in the consideration of any significant development

<u>Dbjective LCM 2</u> Landscape Sensitivity Ratings

Consideration of landscape sensitivity ratings shall be an important factor in determining development uses in areas of the County. In areas of high landscape sensitivity, the design and the choice of location of proposed development in the landscape will also be critical considerations.

As outlined within the County Development Plan 2015-2021, the subject site is located within Landscape Character Area 5 - Northeast Galway (Tuam

LCA 5	Environs

Landscape Sensitivity & Character Areas	Landscape Value Rating
,	ī
Low	Low

Visual Catchment

The visibility assessment in this study concentrates on publicly accessible areas, particularly within 2km, such as roads, access lanes and public right of way, along with residential properties; and sites of public significance.

As a basic visual principal, any type of development in the landscape w become less perceptible with distance. This simply equates to a reduction c the significance of potential visual impacts as one moves further away.

<u>Viewpoint Distance 0-2km</u> Although this is difficult to quantify, it is acceptable to state that a site located approx 2km or less from a viewer is considered close enough to allow identification of significant detail. Any positions in this range with open uninterrupted views of the site would generally receive the greatest visual impacts

This distance parameter is therefore the main focus for assessment.

<u>Viewpoint Distance 2-5km</u> The visibility of the site becomes more general, with viewers in open uninterrupted positions able to identify general form, occasionally colour/tone and textural contrast, but losing the more focused detail achievable closer.

Viewpoint Distance 5-1 5+km

conditions etc have potential to allow certain types of development and material finishes to be perceived. The development increasingly becomes part of the general background/distance views. quickly diminishes. In certain circumstances/light

The Zone of Theoretical Visual Influence model indicates potential visibility in all directions for the site however this does not account for the screening influence of existing woodland and hedgerows.

Cloonascragh Sand & Gravel Pit,	fig.9.2	Landscape Analysis
landscapearchitectur 559 ormeeu Road Belfast 0777575201 pete@mullin.ie mail@mullin.i	mullin	-

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Viewpoint 1a North from high point within the application area. (Intervisibility Image)

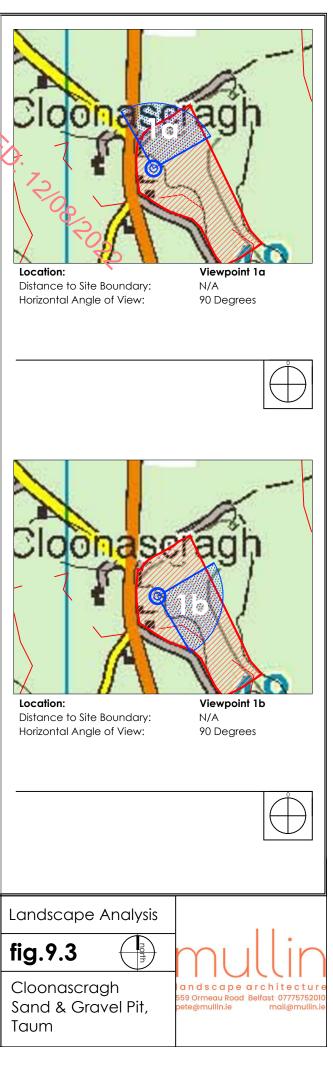
This image was taken in an Northerly direction from the application area to illustrate potential visibility from the site, conversely this illustrates locations within the surrounding landscape from which the site may be seen. This is known as intervisibility and forms the basis of a ZTVI (the site's Zone of Theoretical Visual Influence or Visual Envelope). The approximate visual envelope is reflected in Figure 9.2.

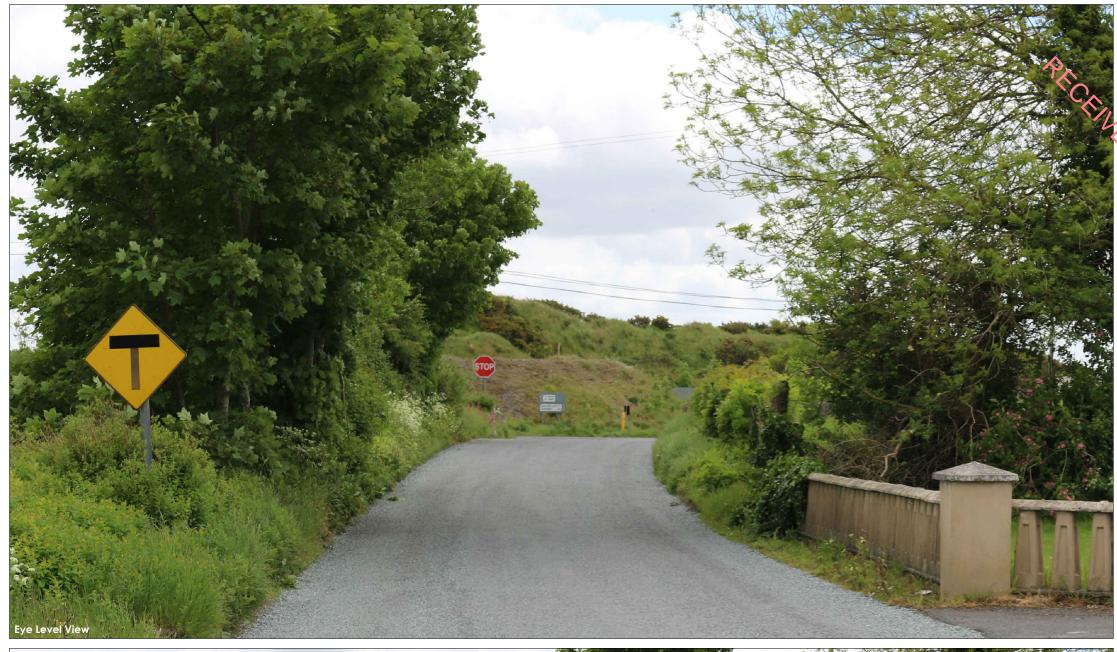


Viewpoint 1b East from high point within the application area. (Intervisibility Image)

This image was taken in an Easterly direction from the application area to illustrate what is visible from the site, conversely this illustrates points within the surrounding landscape from which the site may be seen. This is known as intervisibility and forms the basis of a ZTVI (the site's Zone of Theoretical Visual Influence or Visual Envelope). The approximate visual envelope is reflected in Figure 9.2.

images to illustrate approximate extent of visual	envelope	notes		
(Refer to Figure 9.2 Visual Analysis for ZTVI)		Lines of Intervisibility Intervisibility lines (IV) exist where a terrain feature, such as a ridgeline or hill interrupts the line of sight along the ground and prevents observation of the lands beyond. An observer positioned on a ridgeline of an intervisibility line (Point C) can see in		
images for illustrative purposes				
images for illustrative purposes		both directions. However, although observers positioned at either Point A or B can see Point C they will not be able to see each other.		
Client McTiques	date Feb. 22	þy þjm	a h	
Mengees				

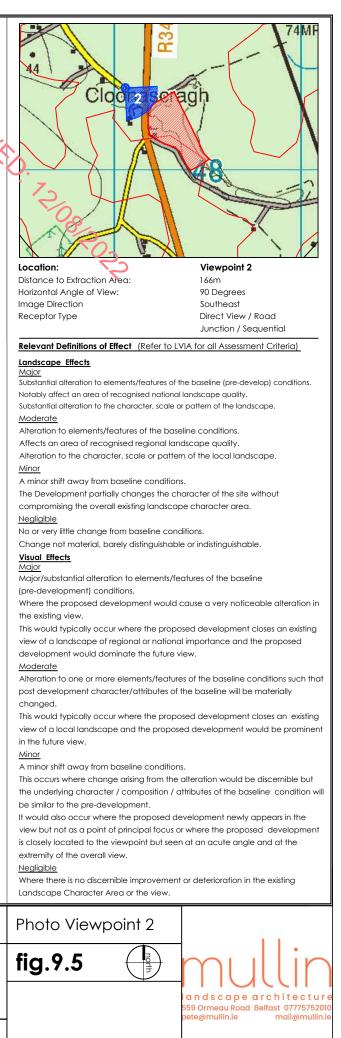


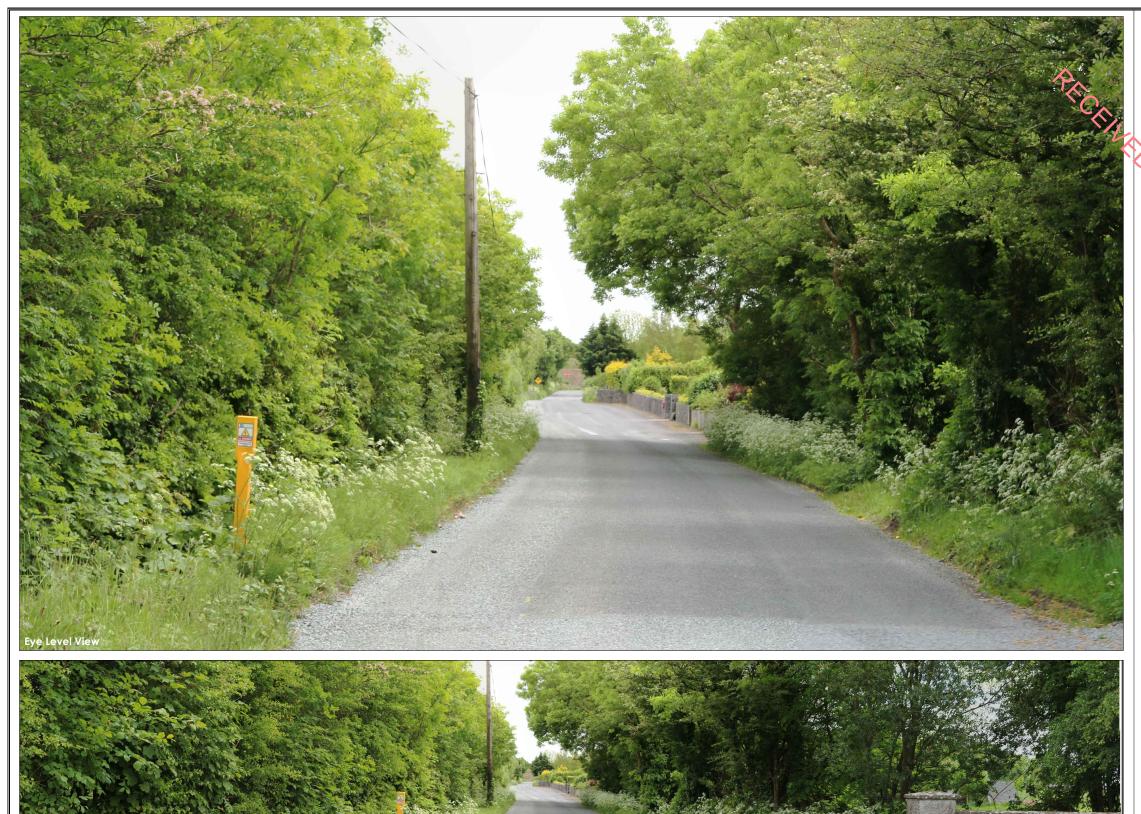




Viewpoint 2 View East from L6141 - View in the direction of the subject site from minor road running perpendicular to Athenry Road (R347). From this location disturbed ground associated with the existing works is clearly visible. The proposals include reduction in height, profiling and planting these landforms to integrate more naturally with the relatively level / low lying topography typical of the area. Whilst visual disturbance is expected during the establishment phase, once complete these proposed operations will result in beneficial outcomes in visual terms from this location.

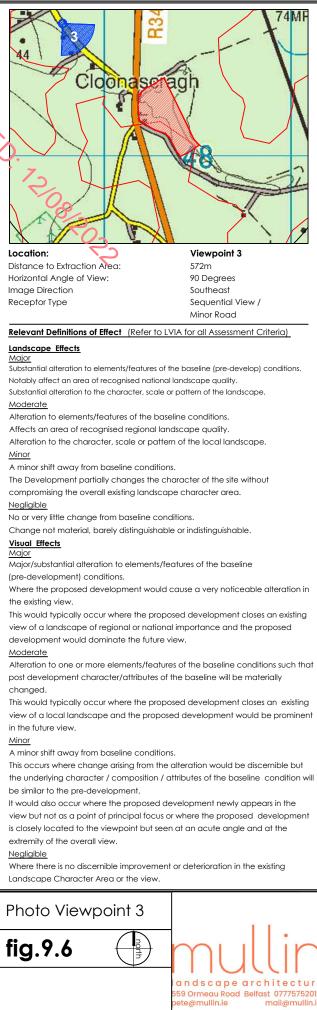
Local Landscap	Local Landscape & Visual Effect from this View		Predicted Effect	Maanitude	Predicted Effect	Magnitud	e Predicted Effect	Mitigation
Viewpoint	Landscape & Visual Sensitivity	Magnitude (Establishment Stage)					ige) (Restoration Stage)	Lowering and protiling existing boundary overburden tips
2	Low (Landscape) Medium (Visual)	Low Medium	Negligible Moderate	Low Low	Negligible Minor	Medium Low	Minor Minor	
client McTigue	es		date Feb.	22	scale 1:15000@	A3 by	pjm	notes Top image represents an actual eyelevel impression of the view printed at A3 & read at approx arms length.





View East from L6141 - View in the direction of the subject site from minor road running perpendicular to Athenry Road (R347). From this location a small portion of disturbed ground associated with the existing works is visible. The proposals include reduction in height, profiling and planting these landforms to integrate more naturally with the relatively level / low lying topography typical of the area. Whilst visual disturbance is expected during the establishment phase, once complete these proposed operations will result in beneficial outcomes in visual terms from this location.

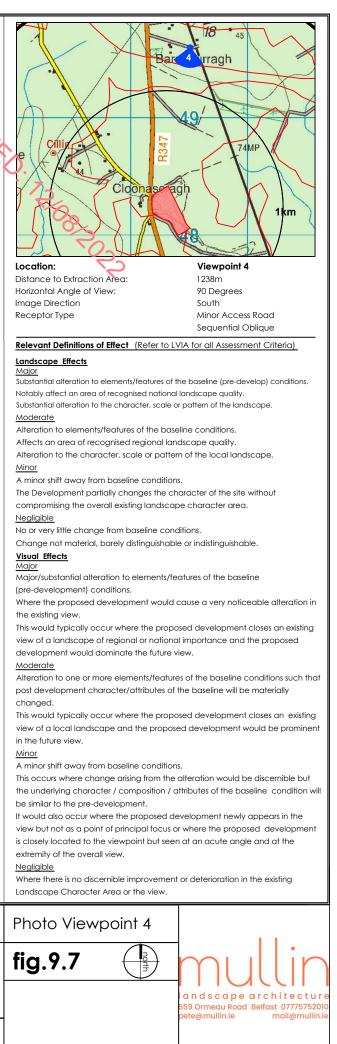
Local Landscap Viewpoint	pe & Visual Effect from this View Landscape & Visual Sensitivity	Magnitude (Establishment Stage)	Predicted Effect (Establishment Stage)	Magnitude (Operational Stage	Predicted Effect e) (Operational Stage)		Predicted Effect) (Restoration Stage)	I owering and protiling existing boundary overburden tips
3	Low (Landscape) Medium (Visual)	Low Low	Negligible Minor	Low Low	Negligible Minor	Medium Low	Minor Minor	
client McTigu	les		date Feb.	22	scale 1:15000@	A3 by	pjm	notes Top image represents an actual eyelevel impression of the view printed at A3 & read at approx arms length.





Viewpoint 4 View South from Access to golf course - View in the direction of the subject site from access road running perpendicular to Athenry Road (R347). From this elevated location a portion of the existing disturbed ground associated with the existing works is visible, however the application area would be largely screened from this location by a large existing shed structure on lands to the north adjoining the subject site.

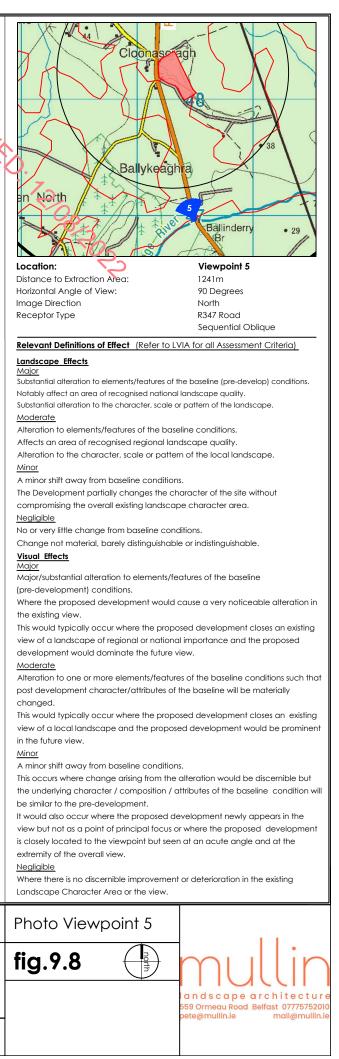
Local Landscape & Visual Effect from this View Viewpoint Landscape & Visual Sensitivity		Magnitude (Establishment Stage)	Predicted Effect (Establishment Stage)	Magnitude (Operational Stage	Predicted Effect e) (Operational Stage)		de Predicted Effect tage) (Restoration Stage)	Lowering and profiling existing boundary overburden tips
4	Low (Landscape) Medium (Visual)	Low Low	Negligible Minor	Low Low	Negligible Minor	Mediur Low	n Minor Negligible	
client McTigue	es		date Feb	. 22	scale 1:15000@	A3 b	y pjm	notes Top image represents an actual eyelevel impression of the view printed at A3 & read at approx arms length.





Viewpoint 5 View North from R347 bridge over Grange River - View in the direction of the subject site from the R347. From this location the existing development is completely screened by intervening woodland. Whilst the ZTVI model suggests potential visibility from this location, the existing structure planting (which does not form part of the ZTVI model) will completely screen the proposal.

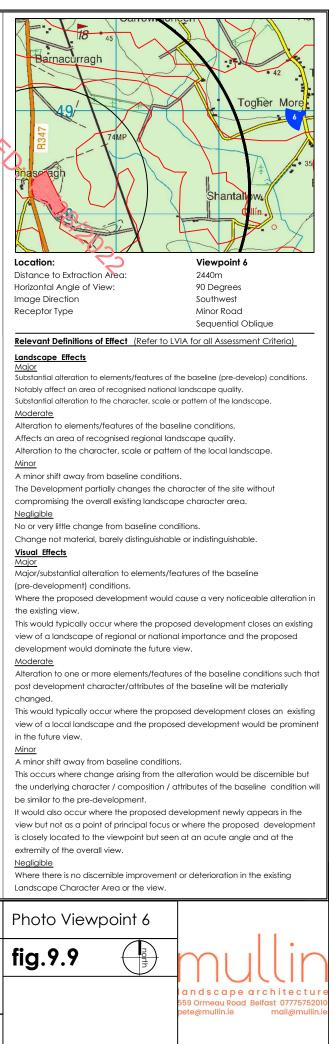
Local Landscap Viewpoint	e & Visual Effect from this View Landscape & Visual Sensitivity	Magnitude (Establishment Stage)	Predicted Effect (Establishment Stage)	Magnitude (Operational Stage	Predicted Effect) (Operational Stage)	Magnituc (Restoration St	de Predicted Effect (Restoration Stage)	Mitigation Lowering and profiling existing boundary overburden tips. Planting with woodland and hedgerow species.
5	Low (Landscape) Medium (Visual)	Low Very Low	Negligible Negligible	Low Very Low	Negligible Negligible	Mediun Very Lov	n Minor	
client McTigue	es		date Feb.	22	scale 1:15000@	A3 by	r pjm	notes Top image represents an actual eyelevel impression of the view printed at A3 & read at approx arms length.





Viewpoint 6 View Southeast from junction of Togher More Road and L2114 - View in the direction of the subject site from junction with L2114. From this location the existing development is completely screened by intervening structures. Whilst the ZTVI model suggests potential visibility from this location field survey confirms the proposals will be completely screened.

Local Landscape & Visual Effect from this View Viewpoint Landscape & Visual Sensitivity		Magnitude (Establishment Stage)	Predicted Effect (Establishment Stage)	Magnitude (Operational Stage	Predicted Effect) (Operational Stage)	Magnitude (Restoration Stage)	Predicted Effect (Restoration Stage)	Mitigation Lowering and profiling existing boundary overburden tips. Planting with woodland and hedgerow species.
6	Low (Landscape) Medium (Visual)	Low Very Low	Negligible Negligible	Low Very Low	Negligible Negligible	Medium Very Low	Minor Negligible	
client McTigue	es		date Feb.	22	scale 1:15000@.	A3 by	pjm	notes Top image represents an actual eyelevel impression of the view printed at A3 & read at approx arms length.





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Rev

Restoration Concept

Site Restoration is focused on habitat creation along peripheral slopes incorporating species rich grassland, sand martin habitat and woodland with reinstatement to agricultural grazing land within the former quarry floor.

Steeper slopes would accommodate replacement sand martin habitat species rich grassland and native woodland/scrub.

Post-extraction, areas would be prepared through cross ripped and harrowing to establish free drainage. These operation would be followed by light tilling prior to grass seeding as illustrated.

Proposed Management of Woodland Planting - Years 1-5

Maintain shrub & woodland areas in a weed free condition

Prune minor damage back to healthy wood and check for and treat disease.

Gap up to replace damaged or failed plant material in accordance with the original planting specification, which shall form part of the management documentation. Check protective fencing, where used, and maintain in good condition. As canopies merge into years 4-5, remove guards and stakes and cease weed control. Thin out weakest specimens if planting becomes overcrowded and start to restrict growth. At the end of this period determine if thinned to 5 m to maintain continued grassland cover beneath. Felled trees to be used to create hibernatula.

Proposed Grasslands

eparation

Ground preparation should follow the supplier's instructions with the removal of weeds, rubbish and stones of ver75 mm diameter. The seed will be sown following extraction activities during times of sufficient warmth and noisture, ideally in late spring or early autumn.

First year reanagement Most of the sown meadow species are perennial and will be slow to germinate and grow and will not usually most of the sown meadow species are perennial and will be slow to germinate and grow and will not usually flower in the first growing season. There will often be a flush of annual weeds from the soil in the first growing season. This weed growth is easily controlled by topping or mowing. (No herbicide applied on site) Avoid cutting in the spring and early summer if the mixture is autumn sown and contains Yellow Rattle, or if the mixture has been sown with a nurse of cornfield annuals. These sown annuals should be allowed to flower, then in mid-summer cut and re nove the vegetation. It is important to cut back the annuals before they die back, set seed and collar se: this con will reveal the developing meadow mixture and give it the space it needs to develop.

<u>Management once established</u> In the second and subsequent' years sown areas can be managed in a number of ways which, in association with soil fertility, will determine the cruciacter of the grassland.

On shallow soils one or two cuts ar me end withe summer, or occasional light grazing, may be all that is required to maintain diversity and interest.

On deeper soils best results are usually costained by traditional meadow management based around a main summer hay cut in combination with autumn and possibly spring mowing or grazing. Meadow grassland is not cut or grazed from spring through to late July (August 10 give the sown species an opportunity to flower.

Refinement of options would tailor by the project replayst and form part of future management plans. After flowering in July or August take a 'hay cut': cut back with a scythe, petrol strimmer or tractor mower to c 50mm. Leave the 'hay' to dry and shed seed for 1-7 down they remove from site.

Mow or graze the re-growth through to late autumn/wingr to c 50mm and again in spring if needed.

H1 LIVESTOCK HEDGEROW MIX

			The second date there along	100 - 100 - 100 - 10			to the site of underst spectra
	%	SPECIES	COMMON	SIZE	GROWN	HEIGHT/TRANSPL	DENSITY
Cm	75	Crataegus monogyna	Hawthorn	40-60cm	BR	1 + 1 Branched	5 per lin m
Ca	5	Coryllus avellana	Hazel	40-60cm	BR	1 + 1 Branched	□ 1 per lin m
Psp	5	Prunus spinosa	Blackthorn	40-60cm	BR	1 + 1 Branched	random
la	5	llex aquifolium	Holly	40-60cm	BR	1 + 1 Branched	selection &
Sc	5	Salix caprea	Goat Willow	40-60cm	BR	1 + 1 Branched	distribution
Vo	5	Viburnum opulus	Guelder Rose	40-60cm	BR	1 + 1 Branched	(See Detail)

TRADITIONAL GRAZING PASTURE MIX **G1** (Applied to Quarry Floor Post Restoration)

Contains a selection of grasses and clovers which complement each other to produce a productive sward. May not be as high yielding as modern ryegrass leys but is more stable & dependable over a range of soil and weather conditions, with less need for inputs of fertiliser and chemicals. It is ideally suited to low input extensive grazing systems.

Grass	es 95%	
%	Latin name	(
12	Cynosurus cristatus	(
9	Dactylis glomerata	(
12	Festuca rubra	S
35	Lolium perenne	F
6	Phleum bertolonii	5
9	Poa pratensis	5
12	Schedonorus pratensis	M

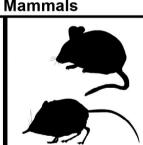
Common name Crested Dogstail Cocksfoot Strong-creeping Red-fescue Perennial Ryegrass Smaller Cat's-tail Smooth-stalked Meadow-grass Meadow Fescue

Clovers, legumes and herbs 5% Latin name

Trifolium repens

Common name Trifolium pratense Red Clover (Ag) Small Leaved White Clover (Ag)

Pollingtors / Small Mammals

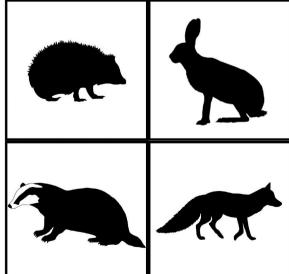


Variety of proposed landcover (incl acid grassland, woodland, hazel copse, & wetland) offer habitats to sustain diverse populations of insect, mollusc, small mammals and birds.

O NOTE:

No herbicides or pesticides to be permitted o during the establishment or extractive operational stage or after operations have ceased & restoration established.

O Larger Mammals



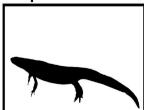
With positive landcover conditions to promote a healthy insect, small bird and mammal population, combined with a balance of woodland, acid grassland and meadow habitat, larger native mammal such as hare, hedgehog, badger & fox will be encouraged.

chartered landscape architects

Birds

Diverse habitat will first attract common native birds & in time with appropriate management encourage a hierarchy of bird species (incl raptors). Existing & proposed exposed sand faces combine with grassland habitat to offer excellent nesting & feeding ground for Sandmartin.

Amphibians





Smooth newts and frog populations are present in the area. The post restoration proposal will include wetland & new ponds for newts and other amphibians.

Restoration Proposal		MDA -22-102-100
CLOONASCRAGH, TUAM CO. GALWAY	,	Fig. 9.10
 moa	559 Ormeau Road, Rosetta, Belfast, BT7 3JA mail@mullindesignassociates.com	