Site Assessment Report – Phase 2 Report No. PH 00857 00













Appendix J – Land Parcel Matrices

1.0	Cultural Heritage	Ferrybank	Kilbride	Shelton Abbey
1.1	Cultural Heritage - Land Parcels	7		•
1.1.1	Potential to impact (direct/indirect) on National Monuments (designated sites)	Imperceptible	Imperceptible	Imperceptible
1.1.2	Potential to impact (direct/indirect) on RMPs (designated sites)	Imperceptible	Imperceptible	Imperceptible
1.1.3	Potential to impact (direct/indirect) on RPS/NIAH (designated sites)	Imperceptible	Imperceptible	Imperceptible
1.1.4	Potential to impact (direct/indirect) on CH sites (previously unrecorded sites)	Imperceptible	Slight - greenfield land parcel	Slight - greenfield land parcel
1.1.5	Potential to impact (direct) on water courses and environs (areas of archaeological potential)	Imperceptible	Imperceptible	Imperceptible
1.1.6	Potential to impact (direct/indirect) on historic designed landscapes	Imperceptible	Imperceptible	Imperceptible
1.1.7	Potential to impact (direct) on townland boundaries (cultural heritage significance)	Imperceptible	Imperceptible	Imperceptible
1.2	Cultural Heritage - Route Corridors	Ferrybank	Kilbride	Shelton Abbey
1.2.1	Potential to impact on RMPs	Imperceptible	Imperceptible	Imperceptible
1.2.2	Potential to impact on National Monuments	Imperceptible	Imperceptible	Imperceptible
1.2.3	Potential to impact on RPS/NIAH	Imperceptible	Imperceptible	Imperceptible
1.2.4	Potential to impact on CH sites	Imperceptible	Moderate - corridor thorugh	Moderate - corridor thorugh
			greenfield lands	greenfield lands
	Potential to impact on historic designed landscapes	Imperceptible	Imperceptible	Imperceptible
1.2.6	Potential to impact on ACA	Imperceptible	Imperceptible	Imperceptible
1.3	Cultural Heritage - Outfalls	Ferrybank	Kilbride	Shelton Abbey
1.3.1	Potential to impact on RMPs	Imperceptible	Imperceptible	Imperceptible
1.3.2	Potential to impact on National Monuments	Imperceptible	Imperceptible	Imperceptible
1.3.3	Potential to impact on RPS/NIAH	Imperceptible	Imperceptible	Imperceptible
1.3.4	Potential to impact on CH sites	Imperceptible	Imperceptible	Imperceptible
1.3.5	Potential to impact on Recorded shipwreck sites	Imperceptible	Imperceptible	Imperceptible
	Potential to impact on inter-tidal archaeology (previously unknown)	Imperceptible	Imperceptible	Imperceptible
	Landscape & Visual	Ferrybank	Kilbride	Shelton Abbey
	Landscape & Visual - Land Parcels			•
	Potential to impact on views from scenic routes (designation in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
	Potential to impact on areas of 'Highly Sensitive Landscape' (designation in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
	Potential to impact on views from heritage/tourist/amenity features	Imperceptible	Imperceptible	Imperceptible
	Potential to impact on the character of the landscape	Imperceptible	Slight - existing 'rural' character	Imperceptible
	Potential that landscape screening will be ineffective or contribute to landscape and visual impacts	Imperceptible	Imperceptible	Imperceptible
	Potential to impact on views from settlements	Imperceptible	Imperceptible	Imperceptible
2.1.7	Potential to impact on views from dwellings / local roads	Moderate - Closest land parcel to	Slight - Elevated land parcel	Imperceptible
		Arklow town centre	visible form surrounds	
2.1.8	Potential to impact on views from M11 motorway	Imperceptible	Slight - visible from M11 bridge	Slight - visible from M11 bridge
			(northbound)	(northbound)
2.1.9	Potential to impact on views from Dublin - Rosslare rail line	Imperceptible	Slight - visible from railway line	
				Moderate - visible from railway line
	Potential to impact on views from other major roads (national or regional roads)	Imperceptible	Imperceptible	Imperceptible
2.1.11	Potential to disrupt landscape structure (hedgerows / field pattern etc.)	Imperceptible		Slight - Site placing will determine
			extent of disruption	extent of disruption
	Potential to impact on historic designed landscapes	Imperceptible	Imperceptible	Imperceptible
2.1.13	Potential to impact on woodlands and significant tree groups	Imperceptible	Imperceptible	Imperceptible

2.2 Landscape & Visual - Route Corridors - Pipelines	Ferrybank	Kilbride	Shelton Abbey
2.2.1 Potential to impact on views from scenic routes (designation in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
2.2.2 Potential to impact on areas of 'Highly Sensitive Landscape' (designation in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
2.2.3 Potential to impact on views from settlements	Imperceptible	Imperceptible	Imperceptible
2.2.4 Potential to impact on views from dwellings / local roads	Imperceptible	Imperceptible	Imperceptible
2.2.5 Potential to impact on views from motorways	Imperceptible	Imperceptible	Imperceptible
2.2.6 Potential to impact on views from other major roads (national or regional roads)	Imperceptible	Imperceptible	Imperceptible
2.2.7 Potential to impact on views from Dublin - Rosslare rail line	Imperceptible	Imperceptible	Imperceptible
2.2.8 Potential to impact on views from heritage/tourist features	Imperceptible	Imperceptible	Imperceptible
2.2.9 Potential to disrupt landscape structure (treelines / hedgerows / field pattern etc.)	Imperceptible	Slight - Changes during	Slight - Changes during
		construction phase along route	construction phase along route
2.2.10 Potential to impact on woodlands and significant tree groups	Imperceptible	Imperceptible	Imperceptible
2.2.11 Potential to impact on rivers and streams	Imperceptible	Imperceptible	Imperceptible
2.2.12 Potential to impact on historic designed landscapes	Imperceptible	Imperceptible	Imperceptible
2.3 Landscape & Visual - Outfalls (Landward side)	Ferrybank	Kilbride	Shelton Abbey
2.3.1 Potential to impact on views from scenic routes (designation in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
2.3.2 Potential to impact on 'Highly Sensitive Landscape' (designation in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
2.3.3 Potential to impact on coastal walks (indicated in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
2.3.4 Potential to impact on bathing locations (indicated in Wicklow CDP)	Imperceptible	Imperceptible	Imperceptible
2.3.5 Potential to impact on views from settlements	Imperceptible	Imperceptible	Imperceptible
2.3.6 Potential to impact on views from dwellings / local roads	Imperceptible	Imperceptible	Imperceptible
2.3.7 Potential to impact on views from major roads (national or regional roads)	Imperceptible	Imperceptible	Imperceptible
2.3.8 Potential to impact on views from Dublin - Rosslare rail line	Imperceptible	Imperceptible	Imperceptible
2.3.9 Potential to impact on views from heritage/tourist features	Imperceptible	Imperceptible	Imperceptible
2.3.10 Potential to Impact on Character of the Coastal Landscape	Imperceptible	Imperceptible	Imperceptible

3.0 Ecology	Ferrybank	Kilbride	Shelton Abbey
3.1 Ecology - Land Parcels	•		,
3.1.1 Potential to impact on Natura 2000 Sites	Imperceptible	Imperceptible	Imperceptible
3.1.2 Potential to impact on Habitats Directive Annex II listed species in freshwater	Imperceptible		Slight - Disturbance of previously land-filled areas may have a potential to mobilise contaminants that could enter watercourses connected to Arklow Town Marsh and the Avoca river and may require additional geotechnical site investigation
3.1.3 Potential to impact on Habitats Directive Annex II listed species in coastal and marine waters	Imperceptible	Imperceptible	Imperceptible
3.1.4 Potential to impact on pNHAs and Conservation Zones	Imperceptible		Slight - Disturbance of previously land-filled areas may have a potential to mobilise contaminants that could enter watercourses connected to Arklow Town Marsh and the Avoca river and may require additional geotechnical site investigation
3.1.5 Potential to impact upon ecological corridors, nature development area or high value habitats	Imperceptible	Slight - Arklow Town and Environs Development Plan 2011-2017 Objectives: BD1, BD2, BD3, BD4, BD5, BD6 are considered to be capable of being implemented given the size of individual field areas within the land parcel.	Imperceptible
3.1.6 Potential to impact on breeding habitat for Annex 1 bird species	Imperceptible	Imperceptible	Imperceptible
3.1.7 Potential to impact on IWeBS identified areas of importance	Imperceptible	Imperceptible	Imperceptible

3.2 Ecology - Route Corridors/Pipelines	Ferrybank	Kilbride	Shelton Abbey
3.2.1 Potential to impact on Natura 2000 sites	Imperceptible	Imperceptible	Imperceptible
3.2.2 Potential to impact on Habitats Directive Annex II listed species in freshwater	Imperceptible	Imperceptible	Slight - Disturbance of previously land-filled areas may have a potential to mobilise contaminants that could enter watercourses connected to Arklow Town Marsh and the Avoca river and may require additional geotechnical site investigation
3.2.3 Potential to impact on Habitats Directive Annex II listed species in coastal and marine waters	Imperceptible	Imperceptible	Imperceptible
3.2.4 Potential to impact on pNHAs and Conservation Zones	Imperceptible	Slight - Arklow Town and Environs Development Plan 2011-2017 Objectives BD2, WS2 require avoidance of construction within Arklow Town Marsh, and avoidance of hydrological impacts on the Marsh.	Slight - Arklow Town and Environs Development Plan 2011-2017 Objectives BD2, WS2 require avoidance of construction within Arklow Town Marsh, and avoidance of hydrological impacts on the Marsh. Disturbance of previously land-filled areas may have a potential to mobilise contaminants that could enter watercourses connected to Arklow Town Marsh and the Avoca river and may require additional geotechnical site investigation
3.2.5 Potential to impact upon ecological corridors, nature development area or high value habitats	Imperceptible	Imperceptible - Arklow Town and Environs Development Plan 2011- 2017 Objectives: BD1, BD2, BD3, BD4, BD5, BD6 are considered to be capable of being implemented in the context of a revised pipeline corridor	Imperceptible
3.2.6 Potential to impact on breeding habitat for Annex 1 bird species	Imperceptible	Imperceptible	Imperceptible
3.2.7 Potential to impact on IWeBS identified areas of importance	Imperceptible	Imperceptible	Imperceptible

3.3 Ecology - Outfalls	Ferrybank	Kilbride	Shelton Abbey
3.3.1 Marine Outfall; Coastal Natura 2000 sites	Slight - Potential impacts on the	Slight - Potential impacts on the	Slight - Potential impacts on the
	coastal SACs Magharabeg Dunes	coastal SACs Magharabeg Dunes	coastal SACs Magharabeg Dunes
	SAC, Buckroney – Brittas Dunes	SAC, Buckroney – Brittas Dunes	SAC, Buckroney – Brittas Dunes
	and Fen SAC, and Kilpatrick	and Fen SAC, and Kilpatrick	and Fen SAC, and Kilpatrick
	Sandhills SAC and their	Sandhills SAC and their	Sandhills SAC and their
	conservation interests	conservation interests	conservation interests
3.3.2 Marine Outfall; Marine Natura 2000 sites	Imperceptible	Imperceptible	Imperceptible
3.3.3 Marine Outfall; Habitats Directive Annex II listed species	Imperceptible - Marine Mammal	Imperceptible	Imperceptible
o.o.o warne outlan, rabitate birective / timex in local species	Observer (MMO) is to be	Imperceptible	ппрегосравіс
	employed during any geophysical		
	survey or piling operations for the		
	protection of individual marine		
	mammals from noise-related injury		
	or disturbance		
3.3.4 Marine Outfall; Birds Directive Annex 1 listed species	Imperceptible	Imperceptible	Imperceptible
3.3.5 Potential to impact on IWeBS identified areas of importance	Imperceptible	Imperceptible	Imperceptible
3.3.6 River outfall; Habitats Directive Annex II listed species in freshwater	Imperceptible	Imperceptible - A river outfall	Imperceptible - A river outfall
		option from the Kilbride land parcel	option from the Shelton Abbey
		will be required to be subject to	land parcel will be required to be
		appropriate treatment levels and	subject to appropriate treatment
		licencing requirements in order to	levels and licencing requirements
		maintain or improve the	in order to maintain or improve the
		conservation status of Habitats	conservation status of Habitats
		Directive Annex II listed fish	Directive Annex II listed fish
		species that occur in the Avoca	species that occur in the Avoca
		river and its estuary; Salmon, Sea	river and its estuary; Salmon, Sea
		lamprey and River lamprey.	lamprey and River lamprey.
3.3.7 Potential to impact on breeding habitat for Annex 1 bird species	Imperceptible	Slight - Kingfisher survey of river	Slight - Kingfisher survey of river
		banks near outfall location	banks near outfall location
		required at detailed design stage	required at detailed design stage
4.0 Hydrology	Ferrybank	Kilbride	Shelton Abbey
4.1 Hydrology - Land Parcels	•		•
4.1.1 Proximity to water bodies in terms of flooding and as an indicator of sensitive surface water receptors	Imperceptible - no significant difference	Imperceptible - no significant difference	Imperceptible - no significant difference
4.1.2 Culverting requirement - used to indicate impact on flood-prone watercourses due to reduced conveyance.	Imperceptible - no culverting	Imperceptible - no culverting	Imperceptible - no culverting
	requirement envisaged	requirement envisaged	requirement envisaged
4.1.3 Area prone to flooding (based on historical data and predicted flood extents adjacent to the land parcel as	Imperceptible. No recorded	Imperceptible. No recorded	Imperceptible. No recorded
well as up and downstream locations)	instance of flooding	instance of flooding	instance of flooding
4.1.4 Potential Impact on ecologically important and designated sites.	Imperceptible	Imperceptible	Imperceptible
4.2 Hydrology - Route Corridors	Ferrybank	Kilbride	Shelton Abbey
4.2.1 Proximity to water bodies in terms of flooding and as an indicator of sensitive surface water receptors	Imperceptible - no significant	Imperceptible - no significant	Imperceptible - no significant
	difference	difference	difference
4.2.2 Culverting requirement - used to indicate impact on flood-prone watercourses due to reduced conveyance.	Imperceptible - no culverting	Imperceptible - no culverting	Imperceptible - no culverting
	requirement envisaged	requirement envisaged	requirement envisaged
4.2.3 Area prone to flooding (based on historical data and predicted flood extents adjacent to the land parcel as	Slight - historic instances of	Slight - historic instances of	Slight - historic instances of
well as up and downstream locations)	flooding along route of pipeline	flooding along route of pipeline	flooding along route of pipeline
	corridor	corridor	corridor
4.2.4 Potential Impact on ecologically important and designated sites.	Imperceptible	Slight - Arklow Marsh - pNHA	Slight - Arklow Marsh - pNHA

4.3	Hydrology - Outfalls	Ferrybank	Kilbride	Shelton Abbey
4.3.1	Proximity to water bodies in terms of flooding and as an indicator of sensitive surface water receptors	Imperceptible - no significant	Imperceptible - no significant	Imperceptible - no significant
		difference	difference	difference
4.3.2	Potential to impact Shellfish Waters	Imperceptible. Study Area is not	Imperceptible. Study Area is not	Imperceptible. Study Area is not
		located within the designated	located within the designated	located within the designated
		shellfish waters	shellfish waters	shellfish waters
4.3.3	Area prone to flooding (based on historical data and predicted flood extents adjacent to the land parcel as	Imperceptible - no significant	Imperceptible - no significant	Imperceptible - no significant
	well as up and downstream locations)	difference	difference	difference
4.3.4	Potential Impact on ecologically important and designated sites	Imperceptible	Slight - Arklow Marsh - pNHA	Slight - Arklow Marsh - pNHA
	Hydrogeology	Ferrybank	Kilbride	Shelton Abbey
	Hydrogeology - Land Parcels			•
5.1.1	Aquifer Classification - importance of the groundwater resource to a given area	Slight - Locally Important Bedrock Aquifer	Slight - Locally Important Bedrock Aquifer	Slight - Locally Important Bedrock Aquifer & Locally Important Gravel Aquifer
5.1.2	Vulnerability Classification - potential for groundwater contamination	Imperceptible - "Low"	Moderate - "High" to "Extreme" to "Rock at near Surface or Karst"	Slight - "Moderate"
5.1.3	Groundwater Supplies - identification of water supply springs and bored wells based on GSI records.	Imperceptible - 1 no. well - ID:3217SWW051 Accuracy: 2km	Imperceptible - 1 no. well - ID:3217SWW043 Accuracy: 100m	Imperceptible - No wells
5.1.4	Groundwater Source Protection Area's and Zones of Contribution as per available GSI data	in close proximity	in close proximity	Imperceptible - No SPA's of ZOC's in close proximity
5.1.5	Identification of hydrogeological features from the GSI karst database	Imperceptible - No karst feature within 2 km	Imperceptible - No karst feature within 2 km	Imperceptible - No karst feature within 2 km
5.2	Hydrogeology - Route Corridors	Ferrybank	Kilbride	Shelton Abbey
5.2.1	Aquifer Classification - importance of the groundwater resource to a given area	Slight - Locally Important Bedrock Aquifer	Slight - Locally Important Bedrock Aquifer & Locally Important Gravel Aquifer	Slight - Locally Important Bedrock Aquifer & Locally Important Gravel Aquifer
5.2.2	Vulnerability Classification - potential for groundwater contamination	Imperceptible - "Low"	Imperceptible - "Low"	Imperceptible - "Moderate" to "Low"
5.2.3	Groundwater Supplies - identification of water supply springs and bored wells based on GSI records.	Imperceptible - no significant difference	Imperceptible - no significant difference	Imperceptible - no significant difference
5.2.4	Groundwater Source Protection Area's and Zones of Contribution as per available GSI data	Imperceptible - No SPA's of ZOC's	Imperceptible - No SPA's of ZOC's	Imperceptible - No SPA's of ZOC's
	·	in close proximity	in close proximity	in close proximity
5.2.5	Identification of hydrogeological features from the GSI karst database	Imperceptible - No karst feature within 2 km	Imperceptible - No karst feature within 2 km	Imperceptible - No karst feature within 2 km
5.3	Hydrogeology - Outfalls	Ferrybank	Kilbride	Shelton Abbey
5.3.1	Aquifer Classification - importance of the groundwater resource to a given area	Slight - Locally Important Bedrock Aquifer	Slight - Locally Important Bedrock Aquifer & Locally Important Gravel Aquifer	Slight - Locally Important Bedrock Aquifer & Locally Important Gravel Aquifer
5.3.2	Vulnerability Classification - potential for groundwater contamination	Imperceptible - "Low" rating	Imperceptible - "Moderate" rating	Imperceptible - "Moderate" rating
5.3.3	Groundwater Supplies - identification of water supply springs and bored wells based on GSI records.	Imperceptible - No groundwater supplies	Imperceptible - No groundwater supplies	Imperceptible - No groundwater supplies
5.3.4	Groundwater Source Protection Area's and Zones of Contribution as per available GSI data	Imperceptible - No SPA's of ZOC's in close proximity		Imperceptible - No SPA's of ZOC's in close proximity
5.3.5	Identification of hydrogeological features from the GSI karst database	Imperceptible - No karst feature within 2 km	Imperceptible - No karst feature within 2 km	Imperceptible - No karst feature within 2 km

6.0	Soils and Geology			
	Soils and Geology - Land Parcels	Ferrybank	Kilbride	Shelton Abbey
	Potential to impact on Geological Heritage Sites / County Geological Sites	Imperceptible - No such sites in	Imperceptible - No such sites in	Imperceptible - No such sites in
		close proximity	close proximity	close proximity
6.1.2	Potential to interact with contaminated land	Moderate - Chance of	Imperceptible - Greenfield Land	Significant - Brownfield Site. EPA
		encountering heavy metals & PAH	Parcel	Landfill & history of industrial
		Compounds		activities.
6.1.3	Potential to sterilise mineral resource	Imperceptible - No known mineral	Imperceptible - No known mineral	Imperceptible - No known mineral
		sources or registered quarries in	sources or registered quarries in	sources or registered quarries in
		close proximity	close proximity	close proximity
6.1.4	Potential to encounter shallow bedrock during construction (interactions with other disciples during	Imperceptible- Bedrock estimated	Significant - Outcrop in western	Slight - Moderate vulnerability
	construction - noise, dust etc)	at 10m bgl	portion of the land parcel	indicates modrately deep bedrock
	Potential impact on karst features	Imperceptible	Imperceptible	Imperceptible
6.1.6	Potential to encounter soft ground	Moderate - Quaternary mapping	Imperceptible - No alluvial	Slight - Alluvial deposits which
		has noted the subsoil to be an	deposits mapped within land	may include soft silts mapped in
		alluvium gravel deposit consistent	parcel	eastern portion of land parcel
		with the nature of soils located		
		near rivers		
6.1.7	Soils Types	Made Ground		Made Ground
			Acidic deep poorly drained mineral	
6.1.8	Sub Soil Types	Made Ground/Alluvial Gravel	Sandstone and shale till	Made Ground
		Deposits		
	Depth to rock	~10m	0 - 10m	5-10m
	Soils and Geology - Route Corridors	Ferrybank	Kilbride	Shelton Abbey
	Potential to impact on Geological Heritage Sites / County Geological Sites	Imperceptible	Imperceptible	Imperceptible
6.2.2	Potential to interact with contaminated land	Slight - Chance of encountering	Significant - Pipeline route near	Significant - Pipeline route near
		heavy metals & PAH Compounds	existing EPA landfill site	existing EPA landfill site
		(associated with made ground)		
0.00	Detection to stariffication of a continuous	Incompany tible. No long control is	land and attitude to the land of the land	In a second like the language of
6.2.3	Potential to sterilize mineral resource	Imperceptible - No known mineral	Imperceptible - No known mineral	Imperceptible - No known mineral
		sources or registered quarries in	sources or registered quarries in	sources or registered quarries in
0.0.4	Detection to a second control of the second	close proximity	close proximity	close proximity
0.∠.4	Potential to encounter shallow bedrock during construction (interactions with other disciples during	Imperceptible		Moderate - Outcrop shown on GSI
	construction - noise, dust etc)		Mapping in the vicinity of M11	Mapping in the vicinity of M11
625	Detential impact on karet features	Impercentible	motorway	motorway
	Potential impact on karst features Potential to encounter soft ground	Imperceptible	Imperceptible Moderate - Quaternary mapping	Imperceptible Moderate - Quaternary mapping
ნ.∠.ნ	Potential to encounter soft ground	Slight - Quaternary mapping has noted the subsoil to be an alluvium	has noted the subsoil to be an	has noted the subsoil to be an
		gravel deposit consistent with the	alluvium gravel deposit consistent	alluvium gravel deposit consistent
		nature of soils located near rivers	with the nature of soils located	with the nature of soils located
		nature of soils located hear fivers		
			near rivers/marsh	near rivers/marsh

6.3	Soils and Geology - Outfalls		Kilbride	Shelton Abbey
	Potential to impact on Geological Heritage Sites / County Geological Sites	Imperceptible	Imperceptible	Imperceptible
	Potential to interact with contaminated land	Imperceptible - Ensure avoidance	Imperceptible - Negociate exact	Imperceptible - Negociate exact
		of river dregde dump site offshore		location away from gypsum/carbon
			ponds	ponds
6.3.3	Potential to sterilize mineral resource	Imperceptible	Imperceptible	Imperceptible
6.3.4	Potential to encounter shallow bedrock during construction (interactions with other disciples during			
	construction - noise, dust etc)	Imperceptible	Imperceptible	Imperceptible
6.3.5	Potential impact on karst features	Imperceptible	Imperceptible	Imperceptible
6.3.6	Potential to encounter soft ground	Moderate - Banks of Avoca River/	Moderate - Banks of Avoca River	Moderate - Banks of Avoca River
	-	Coastal Location		
7.0	Agronomy & Landuse - Land Parcels	Ferrybank	Kilbride	Shelton Abbey
7.1	Approximate % Reduction in overall farm holding	Imperceptible	Slight - approx. 6.5% reduction	Imperceptible
7.2	Farming Enterprise	Imperceptible - no farming	Moderate - farming enterprise	Imperceptible - no farming
		enterprise		enterprise
7.3	Number of landowners impacted within land parcel boundary	Slight - 1	Moderate - >1	Slight - 1
7.4	Land Quality	Imperceptible - Poor Land Quality	Slight - Good Land Quality	Imperceptible - Poor Land Quality
7.5	Severance based on site location within overall land holdings	TBC - Step 2/3	TBC - Step 2/3	TBC - Step 2/3
7.6	Potential Impacts on landholdings	Imperceptible	Reduction in farm size	Imperceptible
	Crop rotation practiced	No	Yes	No
7.8	Overall Impact	Imperceptible	Moderate	Imperceptible
8.0	Noise & Vibration	Ferrybank	Kilbride	Shelton Abbey
8.1	Potential for Construction phase noise impact at Sensitive receptors	Significant - 204 dwellings (PIR	Significant - 365 dwellings (PIR	Slight - 26 dwellings (PIR
		Weighted) within 300 m	Weighted) within 300 m	Weighted) within 300 m
8.2	Potential for Operational phase noise impact at Sensitive receptors	Slight -Facility shall reach 55db(A)	Slight - Facility shall reach 55db(A)	Slight - Facility shall reach 55db(A)
		Daytime and 45 db(A) night at	Daytime and 45 db(A) night at	Daytime and 45 db(A) night at
		closest receptor	closest receptor	closest receptor
8.3	Existing Ambient Noise Climate in the Area (significant noise sources)	Close to Arklow Town Centre	Relatively rural farmland area.	Relatively rural farmland area.
			Borders M11 motorway	Borders M11 motorway
8.4	Construction Phase Impact rating	Imperceptible	Imperceptible	Imperceptible
8.5	Operational Phase Impact rating	Imperceptible	Imperceptible	Imperceptible

9.0	Air and Odour	Ferrybank	Kilbride	Shelton Abbey
9.1	Potential for Construction Phase Air Quality Impact at Sensitive Receptors	Significant - Approx. 714 Dwellings	Significant - Approx. 415 Dwellings	Slight - Approx. 66 Dwellings
		within 500m of Land Parcel	within 500m of Land Parcel	within 500m of Land Parcel
		Boundary	Boundary	Boundary
9.2	Potential for Operational Phase Air Quality Impact at Sensitive Receptors	Facility shall reach Appropriate Air	Facility shall reach Appropriate Air	Facility shall reach Appropriate Air
		Quality Standards at Emission	Quality Standards at Emission	Quality Standards at Emission
		Points	Points	Points
9.3	Potential for Odour Impacts at Operational phase	Significant - Approx. 714 Dwellings	Significant - Approx. 415 Dwellings	Slight - Approx. 66 Dwellings
		within 500m of Land Parcel	within 500m of Land Parcel	within 500m of Land Parcel
		Boundary	Boundary	Boundary
9.4	Potential for Odour impacts at Construction phase	Slight - Potential to cause odour	Slight – Potential to cause odour	Slight – Potential to cause odour
		during plant commissioning	during plant commissioning	during plant commissioning
9.5	Proximity to EPA Waste Licensed facility	Imperceptible - No EPA Waste	Imperceptible - No EPA Waste	Imperceptible - No EPA Waste
		Licensed Facility within 1km of the	Licensed Facility within 1km of the	Licensed Facility within 1km of the
		Land Parcel	Land Parcel	Land Parcel
9.6	Proximity to EPA IPPC Licensed Intensive Agriculture Facility	Imperceptible - No EPA Licensed	Imperceptible - No EPA Licensed	Imperceptible - No EPA Licensed
		Intensive Agricultural Facilities	Intensive Agricultural Facilities	Intensive Agricultural Facilities
		within 1km of the Land Parcel	within 1km of the Land Parcel	within 1km of the Land Parcel
9.7	EPA Air Quality Zone Classification	Zone D Rest of the Country (Rural	Zone D Rest of the Country (Rural	Zone D Rest of the Country (Rural
		Air Quality Classification)	Air Quality Classification)	Air Quality Classification)
9.8	Wind Rose Assessment	Given the Small Area, the Wind	Given the Small Area, the Wind	Given the Small Area, the Wind
		Rose Assessment is considered to		
		be the same for all 3 Shortlisted	be the same for all 3 Shortlisted	be the same for all 3 Shortlisted
		Land Parcels	Land Parcels	Land Parcels
10.0	People and Communities - Land Parcels	Ferrybank	Kilbride	Shelton Abbey
10.4				
10.1	Number of residential & commercial buildings 100-200m from parcel boundary	Slight - Approx. 29	Moderate - Approx. 127	Slight - Approx. 6
	Number of residential & commercial buildings 100-200m from parcel boundary Number of residential & commercial buildings within 500m from parcel boundary	Slight - Approx. 29 Significant - Approx. 714	Moderate - Approx. 127 Significant - Approx. 415	Slight - Approx. 6 Slight - Approx. 66
10.1	Number of residential & commercial buildings within 500m from parcel boundary			
10.1		Significant - Approx. 714	Significant - Approx. 415	Slight - Approx. 66
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre,	Significant - Approx. 415 Slight - The Kilbride historic	Slight - Approx. 66 Slight - The Kilbride historic
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track &	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to
10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to
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10.1 10.1	Number of residential & commercial buildings within 500m from parcel boundary	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to
10.1	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary.	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East.
10.1 10.1 10.1	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south.	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East.
10.1 10.1 10.1 11.0 11.1	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference
10.1 10.1 10.1 11.0 11.1	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required Number of crossings required	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant
10.1 10.1 10.1 11.0 11.1	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant difference	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant difference	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference
10.1 10.1 10.1 11.1 11.2 11.3	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required Number of crossings required Potential Impact on landowners	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant difference 0 Moderate - Construction Phase	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant difference 1- R772 Slight - Construction Stage	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference 2 - M11 Motorway & R772 Slight - Construction Stage
10.1 10.1 10.1 11.1 11.2 11.3	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required Number of crossings required	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant difference 0	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant difference 1- R772	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference 2 - M11 Motorway & R772
10.1 10.1 11.0 11.1 11.2 11.3 11.4	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required Number of crossings required Potential Impact on landowners	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant difference 0 Moderate - Construction Phase Imperceptible - no significant	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant difference 1- R772 Slight - Construction Stage Imperceptible - no significant	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference 2 - M11 Motorway & R772 Slight - Construction Stage Imperceptible - no significant
10.1 10.1 11.0 11.1 11.2 11.3 11.4 11.5	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required Number of crossings required Potential Impact on landowners Works required to provide safe access entrance	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant difference 0 Moderate - Construction Phase Imperceptible - no significant difference	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant difference 1- R772 Slight - Construction Stage Imperceptible - no significant difference	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference 2 - M11 Motorway & R772 Slight - Construction Stage Imperceptible - no significant difference
10.1 10.1 11.0 11.1 11.2 11.3 11.4 11.5 11.7	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required Number of crossings required Potential Impact on landowners Works required to provide safe access entrance Potential impact on surrounding local road network Frequency of accidents near entrance	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant difference 0 Moderate - Construction Phase Imperceptible - no significant difference Imperceptible	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant difference 1- R772 Slight - Construction Stage Imperceptible - no significant difference Imperceptible - Imperceptible	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference 2 - M11 Motorway & R772 Slight - Construction Stage Imperceptible - no significant difference Imperceptible
10.1 10.1 11.0 11.1 11.2 11.3 11.4 11.5 11.7 11.8	Number of residential & commercial buildings within 500m from parcel boundary Potential to impact on known community amenities and facilities within 1km from parcel boundary. Potential to impact on areas of Significant Population Densities Traffic - Land Parcels Length of access road required Number of crossings required Potential Impact on landowners Works required to provide safe access entrance Potential impact on surrounding local road network	Significant - Approx. 714 Moderate - Arklow leisure centre, skate park/BMX, running track & playing pitches is c. 200 m to the north and the golf links c. 500 m to the south. Bridgewater shopping centre is located c. 520 m from the boundary of the parcel while the Marina Village residential development lies 200 m from the parcel boundary Slight Ferrybank Imperceptible - no significant difference 0 Moderate - Construction Phase Imperceptible - no significant difference Imperceptible Low	Significant - Approx. 415 Slight - The Kilbride historic graveyard borders this land parcel and the Arklow Town Marsh is c. 600 m to the south. Imperceptible Kilbride Imperceptible - no significant difference 1- R772 Slight - Construction Stage Imperceptible - no significant difference Imperceptible - land significant difference Imperceptible - Low	Slight - Approx. 66 Slight - The Kilbride historic graveyard lies c. 600 m North East of this land parcel and the Arklow Town Marsh is c. 700 m to the East. Imperceptible Shelton Abbey Imperceptible - no significant difference 2 - M11 Motorway & R772 Slight - Construction Stage Imperceptible - no significant difference Imperceptible Low

12.0 12.0 Planning Policy - Land Parcels	Ferrybank	Kilbride	Shelton Abbey
12.1 Existing Land Use on land parcel	Derelict	Agricultural	Agricultural/Landfill/Commercial
12.2 Land parcel zoning	Waterfront Zone	Action Area	Employment
12.3 Local Objectives/Constraints on land parcel	Imperceptible - No	Imperceptible - No	Significant - Zone B - Flood Plain.
	Objectives/Contraints	Objectives/Contraints	Justification Test Required
12.4 Land Uses present within 100m of land parcel boundary	Imperceptible Impact: Varied - No	Imperceptible Impact: Varied - No	Imperceptible Impact: Varied - No
	Significant Difference	Significant Difference	Significant Difference
12.5 Zoning present within 100m of land parcel boundary	Commercial Uses	Agricultural Uses	Agricultural Uses
12.6 Zoning present within 1km of land parcel boundary	Active Open Space/Existing	Conservation Zone / Employment	Amenity/Existing
	Residential	(E2) / Existing Residential	Residential/Conservation Zone
		-	
12.7 Other Local Objectives present within 1km of land parcel boundary	Imperceptible - None	Slight - SEVESO II - Inside 1000m	Slight - SEVESO II - Inside 1000m
		buffer. Consultation required	buffer. Consultation required
		•	·
13.0 Engineering Design - Pipelines	Ferrybank	Kilbride	Shelton Abbey
13.1 Pipeline Length	rerrybank	Klibride	Shellon Abbey
Total Length as Open Cut	520 m	2870 m	2950 m
Total Length as Tunnel	0 m	0 m	0 m
Total Length in Marine Outfall	1000 m	0 m	0 m
Total Length in River Outfall	0 m	25 m	25 m
Total Pipeline Length	1520 m	2895 m	2975 m
13.2 Power Requirements	Ferrybank	Kilbride	Shelton Abbey
Power Requirement from Load Centre to WwTP Parcelv (18,000 pe)	22000	235000	235000
Power Requirement from Load Centre to WwTP Parcel (36,000 pe)	51000	507000	507000
Total Average Power Requirements	36500	371000	371000
13.3 Carbon Emissions	Ferrybank	Kilbride	Shelton Abbey
Total embodied Carbon	120,826.38	246,332.66	253,139.78
Total Lifetime Operational Carbon	783.98	7,905.09	7,905.09
Total Carbon (tonnes CO ₂)	121,610.36	254,237.75	261,044.87
13.4 Health and Safety - Pipeline Construction	Ferrybank	Kilbride	Shelton Abbey
Health & Safety	Moderate - Construction of long	Imperceptible - no significant	Imperceptible - no significant
· · · · · · · · · · · · · · · · · · ·	sea outfall.	difference	difference
13.5 Access / Right of Way / Wayleaves along Pipeline Corridors	Ferrybank	Kilbride	Shelton Abbey
Restrictions Along Pipeline Corridors to WwTP Parcels	2	2	2
13.6 Crossings - Waterways, Rail, etc. along Pipeline Corridors	Ferrybank	Kilbride	Shelton Abbey
Main River Crossings	0	0	0
Stream Crossings	0	0	1
Canal Crossings	0	1	1
Motorway Crossings	0	0	1
National Road Crossings	0	0	0
Regional Road Crossings	0	1	1
Railway Crossings	0	0	0
Total Crossings	0	2	4
13.7 Potential to Impact on Physical Infrastructure along Pipeline Corridors	Ferrybank	Kilbride	Shelton Abbey
	More Impact on Local Roads	More Impact on Regional Roads	More Impact on Regional Roads
13.8 Potential to Impact on Strategic Utility Services along Pipeline Corridors	Ferrybank	Kilbride	Shelton Abbey
	Imperceptible - no significant	Imperceptible - no significant	Imperceptible - no significant
	differecne	differecne	differecne

13.9	Presence of Public Utilities within Land Parcels	Ferrybank	Kilbride	Shelton Abbey
	Public Utilities within the Land Parcel	38kV station & associated	No major public utilities within the	220 kV overhead power cables
		underground/submarine power	land parcel	
		cables in close proximity to land	·	
		parcel		
13.1	Land Ownership and Titles along Pipeline Corridors	Ferrybank	Kilbride	Shelton Abbey
		Least Ownerships	Most Ownerships	Most Ownerships
13.1	1 Route Traffic Management	Ferrybank	Kilbride	Shelton Abbey
		No Significant Impact after	No Significant Impact after	No Significant Impact after
		Construction Stage	Construction Stage	Construction Stage
13.1	2 Construction Risk along Pipeline Corridors	Ferrybank	Kilbride	Shelton Abbey
		Imperceptible - tunelling works not	Imperceptible - tunelling works not	Imperceptible - tunelling works not
		necessary	necessary	necessary
13.13	3 Operation	Ferrybank	Kilbride	Shelton Abbey
		Imperceptible - no significant	Imperceptible - no significant	Imperceptible - no significant
		difference	difference	difference
14.0	l Engineering Design - WwTP	Ferrybank	Kilbride	Shelton Abbey
14.	1 Engineering Design/Treatment Processes Required - WwTP	rellybalik	Klibi ide	Sileiton Abbey
		Moderate - Assumed need for	Significant - Assumed need for	Profound - Assumed need for
		further odour control	tertiary treatment	tertiary treatment & flood mitigation
			•	works
14.	2 Health & Safety - WwTP Construction	Ferrybank	Kilbride	Shelton Abbey
		Imperceptible - no significant	Imperceptible - no significant	Imperceptible - no significant
		difference	difference	difference
14.3	Remediation Works -WwTP & Pipelines	Ferrybank	Kilbride	Shelton Abbey
		Moderate - asbestos removal	Moderate - EPA landfill	Moderate - EPA landfill
		required	remediation required (outfall	remediation required (rising main)
			pipeline)	
14.	4 Capital & Operational Costs	Ferrybank	Kilbride	Shelton Abbey
	Annual Energy Costs - SBR Treatment Process	€161,000.00	€319,000.00	€319,000.00
	Annual Sludge Disposal Costs - SBR Treatment Process	€364,000.00	€284,000.00	€284,000.00
	Annual Labour & Maintenance Costs - SBR Treatment Process	€289,000.00	€289,000.00	€289,000.00
	Total Annual Operational Costs	€814,000.00	€892,000.00	€892,000.00
	Capital Costs of WwTP	€7,030,000.00	€12,332,000.00	€12,332,000.00
14.	5 Carbon Emissions - WwTP	Ferrybank	Kilbride	Shelton Abbey
	Annual Carbon Emissions associated with SBR Treatment Process	824,000 kg/year	1,631,000 kg/year	1,631,000 kg/year
	Land Valuation	Ferrybank	Kilbride	Shelton Abbey
15.	1 Land Valuation - Land Parcels & Wayleaves	rerrybank	1	Offetton Abbey
	Price per area - Land Parcel	Most Evenensive 4 times man	Lower than Ferrybank, Higher than	
	Price per area - Land Parcer			Least Expensive
	Price per area - Land Parcer	Most Expensive – 4 times more	Shelton Abbey – 2 times more	Least Expensive
	Price per area - Land Parcer	than Shelton Abbey	Shelton Abbey – 2 times more expensive	Least Expensive
	Price - Wayleaves Required for Pipelines	than Shelton Abbey	,	<u> </u>
		than Shelton Abbey Least Expensive (Smaller pipe	expensive	Most Expensive (Longest pipe
		than Shelton Abbey	expensive Higher that Ferrybank, lower than	•
		than Shelton Abbey Least Expensive (Smaller pipe	expensive Higher that Ferrybank, lower than Shelton Abbey (Longer pipe	Most Expensive (Longest pipe