

**Aberdeen Western Peripheral Route**  
Environmental Statement Appendices 2007

**Part B: Northern Leg**

**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

**Potential Impacts and Mitigation - Northern Leg**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
Overhills Land Ref 108	1	Field area 0.80ha. LCA Class 3.1. Loss of 0.48ha (60% of field area) to construction of link road to Chapel of Stonewood to Fairley Road (C89C). Loss of boundary drystone dyke, existing access, watering for livestock and disruption to drainage.				Reinstatement of boundary drystone walls. Reinstatement of access off C89C. Provision of water trough for grazing animals. Tie in existing field drainage with road drainage and provide new as required.	
	2	Field area 2.16ha. LCA Class 3.2. Loss of 0.09ha (4% of field area) to construction of link road to Chapel of Stonewood to Fairley Road (C89C). Loss of boundary drystone dyke, existing access, and disruption to drainage.				Reinstatement of boundary drystone walls and fences. Reinstatement of access off C89C and to adjacent field. Tie in existing field drainage with road drainage and provide new as required.	
	3	Field area 1.63ha. LCA Class 3.2. Loss of 0.08ha (2% of field area) to construction of link road to Chapel of Stonewood to Fairley Road (C89C). Loss of boundary drystone dyke, existing access, and disruption to drainage.				Reinstatement of boundary drystone walls and fences. Reinstatement of access off C89C. Tie in existing field drainage with road drainage and provide new as required.	
	4	Field area 3.58ha. LCA Class 3.2. Loss of 0.22ha (6% of field area) to construction of link road to Chapel of Stonewood to Fairley Road (C89C). Loss of boundary drystone dyke, existing access, and disruption to drainage.				Reinstatement of boundary drystone walls and fences. Reinstatement of access off C89C. Provision of water trough for grazing animals. Tie in existing field drainage with road drainage and provide new as required.	
	5	Field area 1.58ha. LCA Class 3.2. Loss of 0.02ha (1% of field area) for creation of field access point. Disruption to field boundary.				Reinstatement of field boundary and access.	
	6	Field area 3.15ha. LCA Class 3.2. Loss of 0.03ha (1% of field area) for creation of field access point. Disruption to field boundary.				Reinstatement of field boundary and access.	
			Loss of 0.92ha (0.48ha Class 3.1 and 0.44ha Class 3.2) equating to 1% of total farmed area. Severance of estimated 0.45ha (1% of farm area). Loss of boundary features, access and water for livestock and disruption to field drainage system.	M	L	Sli	Reinstatement of boundary features, provision of new access to C89C, provision of water for grazing animals, reinstatement of field drainage. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.

\* Sensitivity

\*\* Magnitude

\*\*\* Significance

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Newton Farm Land Ref 116	1	Field area 1.62ha. LCA Class 3.2. Loss of 0.41ha (25% of field area) for main alignment, associated earthworks and North Kingswells junction link to Chapel of Stoneywood – Fairley Road (C89C). Loss of boundary drystone walls, severance of field, and disruption to drainage system.				Reinstatement of boundary drystone wall and field drainage system (tie in and install where appropriate).	
	2	Field area 2.03ha. LCA Class 3.2. Loss of 1.37ha (67% of field area) for creation of main alignment and associated earthworks and North Kingswells junction. Creation of irregular field shape, loss of field boundary and disruption to drainage system.				Reinstatement of boundary drystone wall and field drainage system (tie in and install where appropriate).	
	3	Field area 2.97ha. LCA Class 3.2. Loss of whole field to main alignment and associated earthworks and North Kingswells junction.				No mitigation possible other than financial compensation.	
	4	Field area 1.83ha. LCA Class 3.2. Loss of whole field to main alignment, associated earthworks and North Kingswells junction.				No mitigation possible other than financial compensation.	
	5	Field area 0.97ha. LCA Class 3.2. Loss of 0.76ha (78% of field area) for creation of main alignment and associated earthworks and North Kingswells junction and access to severed fields. Severed from farm steading, loss of field boundary and access, loss of access to livestock watering point and disruption to drainage system.				Reinstatement of boundary drystone walls and fences where appropriate. New field access with loading area for stock. Merge remaining field area with field 116/7. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	
	6	Field area 4.20ha. LCA Class 3.2. Loss of 0.44ha (10% of field area) for creation of main alignment and associated earthworks and North Kingswells junction. Severed from farm steading, loss of field boundary and access, loss of access to livestock watering point, disruption to drainage system and loss of access to cattle outwintering area.				Reinstatement of boundary drystone walls and fences where appropriate. New field access. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	
	7	Field area 2.29ha. LCA Class 3.2. Loss of 0.09ha (4% of field area) for creation of main alignment, associated earthworks and North Kingswells junction. Severed from farm steading, loss of field boundary and access, loss of livestock watering point, disruption to drainage system and loss of access to cattle outwintering area.				Reinstatement of boundary drystone walls and fences where appropriate. New field access with loading area for stock (see field 116/5). Merge with field 116/5. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	

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	8	Field area 0.09ha. LCA Class 3.2. Loss of whole field to main alignment, associated earthworks and North Kingswells junction.				No mitigation possible other than financial compensation.	
		Loss of 7.96ha Class 3.2 land equating to 28% of total farmed area (excluding seasonally rented land). Severance of estimated 8ha (29% of farm area). Loss of boundary features, access and water for livestock and disruption to existing field drainage system.	M	H	Sub	Reinstatement of boundary features, provision of access to severed land and new field access, provision of livestock holding area, restoration of water for grazing animals, reinstatement of field drainage.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sub
Kepplestone Farm Land Ref 100	1	Field area 0.81ha. LCA Class 3.2 land. Loss of whole field to main alignment, associated earthworks and North Kingswells junction.				No mitigation possible other than financial compensation.	
	2	Field area 2.05ha. LCA Class 3.2. Loss of 0.56ha (27% of field area) to main alignment and associated earthworks. Severed from farm steading, loss of field boundary, access and cattle watering. Disruption to field drainage system. Field managed with 100/4.				Merge with 100/1. Reinstatement of access to farm steading. Restoration of boundary drystone walls and fences where appropriate. New field access. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	
	3	Field area 1.79ha. LCA Class 3.2. Loss of 0.99ha (55% of field area) to main alignment and associated earthworks. Loss of field boundary.				Provision of new boundary drystone wall/fence as appropriate. Reinstatement of field drainage system (tie in and install where appropriate). Ensure water for livestock provided.	
	4	Field area 3.27ha. LCA Class 3.2. Loss of 0.09ha (3% of field area) to main alignment and associated earthworks. Severed from farm steading, loss of field boundary, access and cattle watering. Disruption to field drainage system. Field managed with 100/2.				Reinstatement of access to farm steading. Restoration of boundary drystone walls and fences where appropriate. New field access. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	

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	5	Field area 1.73ha. LCA Class 3.2. Loss of 0.99ha (57% of field area) to main alignment and associated earthworks. Severed from farm steading, loss of field boundary, access and cattle watering. Disruption to field drainage system.				Reinstatement of access to farm steading. Restoration of boundary drystone walls and fences where appropriate. New field access. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	
	6	Field area 2.98ha. LCA Class 3.2. Loss of 1.54ha (52% of field area) to main alignment and associated earthworks. Severed area created. Loss of field boundary and access. Disruption to field drainage system.				Reinstatement of access to farm steading through provision of overbridge on line of existing track. Provision of gates to allow holding of stock. Restoration of boundary drystone walls and fences where appropriate. New field access. Reinstatement of field drainage system (tie in and install where appropriate).	
	7	Field area 3.64ha. LCA Class 3.2. Loss of 0.59ha (16% of field area) to main alignment and associated earthworks. Severed from farm steading, loss of field boundary, access and cattle watering. Disruption to field drainage system.				Reinstatement of access to farm steading. Restoration of boundary drystone walls and fences where appropriate. New field access. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	
	8	Field area 4.43ha. LCA Class 3.2. Loss of 1.13ha (26% of field area) to main alignment and associated earthworks. Loss of field boundary, access and cattle watering. Disruption to field drainage system.				Restoration of boundary drystone walls and fences where appropriate. New field access. Reinstatement of field drainage system (tie in and install where appropriate). Provision of water for livestock.	
		Loss of 6.71ha of LCA Class 3.2 equating to 12% of farm area. Severance (estimated 28ha equating to 48% of farm area), loss of boundary features, access and water for livestock and disruption to existing field drainage system.	H	H	Sub	Provision of overbridge on line of existing farm track to mitigate severance. Provision of gates to allow holding of stock. Reinstatement of boundary drystone walls/fences with provision of new field access. Restoration of water for grazing animals, reinstatement of field drainage. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sub

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Rowett Research Institute Land Ref 292	1	Field area 6.62ha. LCA Class 3.2. Loss of 3.05ha (46% of field area) to main alignment and Ashtown overbridge. Field severed. Loss of field boundary, access and livestock watering. Disruption to field drainage system. Disruption to access route for livestock to other fields.				Provision of access to severed areas through use of Ashtown Overbridge. Provision of suitable bridge ramparts for livestock movement. Provision of livestock holding areas on both sides of main alignment to aid livestock movement. Creation of new field access. Provision of new watering points for livestock. Provision of drainage system (tie in and install where appropriate).	
	2	Field area 3.70ha. LCA Class 3.2. Loss of 0.33ha (9% of field area) for main alignment, associated earthworks and provision of new access to Craibstone Estate. Loss of field boundary and access. Disruption to field drainage system.				Restoration of boundary fencing and provision of new field access. Provision of drainage system (tie in and install where appropriate).	
		Loss of 3.38ha of LCA Class 3.2 equating to 2% of farm area. Severance (25ha equating to 12%). Loss of boundary features, access and water for livestock and disruption to existing field drainage system.	H	M	Mod/Sub	Use of Ashtown Overbridge to mitigate severance. Provision of suitable bridge ramparts to allow livestock movements. Provision of livestock holding areas. Provision of new field access, restoration of water for grazing animals, reinstatement of field drainage.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sli/Mod
Scottish Agricultural College Land Ref 101	1	Field area 3.71ha. Organic arable field LCA Class 3.2. Loss of 1.79ha (48% of field area) to main alignment and associated earthworks. Access to remaining land (1.92ha) to the west will be via Ashtown overbridge.				Provision and reinstatement of field boundaries and access to field from existing road (U90C). Ensure drainage system and water supply are tied in or installed as appropriate.	
	2	Field area 3.21ha. Organic arable field LCA Class 3.2. Loss of 1.05ha (33% of field area) to main alignment. Only access to remaining land is via Ashtown overbridge and through field 101/1.				Provision of and reinstatement of field boundaries and access. Ensure drainage system and water supply are tied in or installed as appropriate.	
	3	Golf course. Loss of 0.35ha for main alignment.				Safety screens to prevent golf balls accessing road.	
	4	Field area 2.86ha. Organic arable field LCA Class 3.2. Loss of 2.65ha (whole field) to main alignment and associated earthworks.				No mitigation possible other than financial compensation.	

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	5	Field area 3.62ha. Crop trial field LCA Class 3.2. Loss of 1.52ha (42% of field area) to main alignment and associated earthworks.				Provision and reinstatement of field boundaries. Ensure drainage system and water supply are tied in or installed as appropriate.	
	6	Field area 5.51ha. Organic arable field LCA Class 3.2. Loss of 3.30ha (60% of field area) main alignment and associated earthworks.				Provision and reinstatement of boundaries. Ensure drainage system and water supply are tied in or installed as appropriate.	
	7	Field area 6.41ha. Organic arable field LCA Class 3.2 and woodland. Loss of whole field to main alignment, SUDS ponds and landscaping.				No mitigation possible other than financial compensation.	
	8	Field area 4.92ha. Organic arable field LCA Class 3.2. Loss of 3.09ha (63% of field area) to main alignment and interchange construction, SUDS ponds and landscaping, leaving 1.30ha with awkward shape and access difficulties.				Provision of and reinstatement of boundaries. Provide access from 101/6. Ensure drainage system and water supply are tied in or installed as appropriate.	
	9	Field area 3.16ha. Organic arable field LCA Class 3.2. Loss of whole field to link road construction and planting.				No mitigation possible other than financial compensation.	
	10	Field area 2.29ha. Arable field LCA Class 3.2. Loss of 1.07ha (47% of field area) to main alignment and interchange construction and landscaping.				Provision of and reinstatement of boundaries, and access. Ensure drainage system and water supply are tied in or installed as appropriate.	
	11	Field area 7.26ha. Arable field LCA Class 3.2. Loss of 0.21ha (3% of field area) to main alignment and associated earthworks on Dyce Drive and junction.				Provision of and reinstatement of boundaries and access. Ensure drainage system and water supply are tied in or installed as appropriate.	
	12	Field area 3.26ha. Organic arable field LCA Class 3.2. Loss of 0.68ha (21% of field area) to main alignment and associated earthworks.				Provision of and reinstatement of boundaries and access. Ensure drainage system and water supply are tied in or installed as appropriate.	
	14	Field area 1.24ha. Arable field LCA Class 3.2. Loss of 0.06ha (5% of field area) to embankment construction on Dyce Drive.				Provision of and reinstatement of boundaries. Ensure drainage system and water supply are tied in or installed as appropriate.	
	17	Mixed woodland 6.46ha. Loss of 1.86ha (29% of wood) to main alignment and interchange construction and landscaping.				Provision of boundary fencing.	

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	18	Mixed woodland 2.29ha. Loss of 1.46ha (64% of wood) to main alignment and land acquisition.				Provision of boundary fencing to adjacent land.	
	19	Mixed woodland 2.53ha. Loss of 0.72ha (28% of wood) to main alignment.				Provision of boundary fencing.	
	20	Mixed woodland 1.98ha. Loss of 0.30ha (15% of wood) to main alignment.				Provision of boundary fencing.	
	21	Mixed woodland 1.48ha. Loss of 1.36ha (92% of wood) to main alignment.				Provision of boundary fencing.	
	22	Mixed woodland 0.11ha. Loss of 0.02ha (18% of wood) to link road realignment.				Provision of boundary fencing.	
	23	Mixed woodland 1.19ha. Loss of whole woodland to main alignment and SUDS ponds.				No mitigation possible other than financial compensation.	
	24	Mixed woodland 0.06ha. Loss of whole woodland to farm access and landscaping.				No mitigation possible other than financial compensation.	
			Loss of 32.30ha of land lost of which 23.62ha is LCA Class 3.2 land and is organically farmed. 8.33ha of mature policy woodland and 0.35ha of golf course. Severance estimated at 201ha (63% of farm area). Land to west of route is accessible assuming road and gradients are suitable for agricultural vehicles and trailers.	H	H	Sub	Provision of and reinstatement of boundaries and access. Ensure drainage schemes and water supply are tied in or installed as appropriate. Golf course may require perimeter safety fencing. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU19, LU20, LU21, LU22, LU23.
Walton Farm (SAC) Land Ref 69	1	Field area 5.77ha. Organic arable field LCA Class 3.1. Loss of 1.73ha (30% of field area) to interchange and embankment construction. This field is run with organically farmed Land Area Ref 101.				Provision of boundary fencing, and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	2	Field area 6.00ha. Organic arable field LCA Class 3.2. Loss of 4.82ha (80% of field area) to main alignment, SUDS ponds and landscaping, leaving 1.60ha severed and isolated from farm buildings with no direct or easy access and no water supply. Remaining 0.33ha too small for agricultural use. This field is run with organically farmed Land Ref 101.				Provision of boundary fencing. Access provided to severed area via Newton Works access. Ensure drainage schemes and water supply are tied in or installed as appropriate.	

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	3	Field area 5.22ha. Set-aside field LCA Class 3.2. Loss of 3.69ha (71% of field area) to main alignment and landscaping. Creation of severed land.				Provision of boundary fencing and ensure drainage schemes and water supply are tied in or installed as appropriate. Severed area too small for agricultural but suitable for planting.	
		Total loss of 10.24ha (28% of farm area). Loss of 1.73ha LCA Class 3.1 land and 8.51ha LCA Class 3.2 land. Of this 1.55ha farmed organically (with Land Holding 101). 8ha of land severed (equating to 23% of farm area) from farm buildings with no direct or easy access.	H	H	Sub	Provision of boundary fencing access, water supply and drainage. Road access suitable for heavy machinery and trailed vehicles to farm buildings.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sub
Newton Farm and Chapel Works Land Ref 66	1	Field area 5.67ha. LCA Class 3.2. Loss of 0.79ha (14% of field area) to main alignment and Chapel of Stonewood – Newton – Kirkhill Road (U53C). Loss of field boundary and access. Disruption to field drainage system.				Regrading and return to agriculture of estimated 0.11ha of field. Reducing area lost to 0.68ha (12% of field area). Provision of boundary fencing and field access from U53C. Re-instatement of field drainage scheme tied in or installed as appropriate. Potential for excambian of land from Land Ref 65 (field 65/1) to compensate for loss of land.	
	2	Field area 13.35ha. LCA Class 3.2. Loss of 3.66ha (27% of field area) to main alignment and South Kirkhill Junction. Creation of severed area. Loss of field boundary and access. Disruption to field drainage system.				Regrading and return to agriculture of estimated 1.51ha of field reducing area lost to 2.15ha (16% of field area). Provision of boundary fencing and field access from U53C. Re-instatement of field drainage scheme tied in or installed as appropriate.	

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		Total loss of 4.45ha of LCA Class 3.2 land equating to 0.5% of farm area. Severance (0.5ha equating to <1% farm area) from farm steading and through stopping up U53C, longer travelling times. Loss of boundary fences and disruption to field drainage system.	L	Neg	Neg	Regrading of land to allow return to agriculture (estimated 1.62ha) reducing land lost to 2.83ha (0.3% of farm area). Provision for excambian from Land Ref 65 to reduce area lost further. Provision of new fencing and field access along with reinstatement of field drainage (tied in and installed as appropriate). Maintenance of access to steading from other land via new route, albeit with longer travelling time.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Neg
Corsehill Land Ref 65	1	Field area 5.30ha. Arable field LCA Class 3.2. Loss of 2.01ha (38% of field area) to main alignment and landscaping. Severed area created (0.69ha). Loss of field boundary drystone walls and disruption to field drainage system.				Re-grading of embankments to allow 0.47ha to return to agricultural use. However, area returned to north east of main alignment remains severed from farm. Possible excambian with Land Ref 66. Provision of, and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	2	Field area 2.29ha. LCA Class 3.2. Loss of 1.24ha (54% of field area) to main alignment and landscaping. Loss of drystone wall field boundary and disruption to drainage system.				Re-grading of embankments to allow estimated 0.44ha to return to agricultural use on north side of main alignment. Merge regraded area to north of main alignment with 65/4. Reinstatement of field boundaries, drainage and livestock watering and provide access to severed area via Kirkhill Industrial Estate link road. Merge southern portion with 65/3 to create more workable field size. Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate to realigned field.	

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	3	Field area 2.35ha. LCA Class 3.2. Loss of 1.12ha (48% of field area) to main alignment and landscaping. Loss of drystone wall field boundary and disruption to drainage system.				Merge remaining land to south of main alignment with 65/2 to create more workable field size. Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate to realigned field. Re-grading of embankments to allow estimated 0.37ha to return to agriculture. However, to north of main alignment severed from farm. Merge regraded area with 65/4.	
	4	Field area 2.45ha. LCA Class 3.2. Loss of 1.45ha (59% of field area) to embankment construction for main alignment. Creation of severed area (0.73ha) with awkward shape. Loss of livestock watering point, drystone wall field boundary and disruption to field drainage system.				Re-grading of embankments to allow estimated 1.35ha to return to agricultural use. Merge with severed portions of 65/3 and 65/2 to create larger more workable field. Potential excambian to Land Ref 61. Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	5	Field area 2.38ha. LCA Class 3.2. Loss of 0.82ha (34% of field area) to main alignment and embankment construction and landscaping. Loss of drystone wall field boundary and disruption to drainage to north of main alignment system.				Re-grading of embankments to allow estimated 0.11ha to return to agricultural use reducing area lost to 0.71ha (29% of field area). Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	6	Field area 2.02ha. LCA Class 3.2. Loss of whole field (2.02ha) to main alignment, embankment construction and landscaping. Creation of severed area.				Re-grading of embankment on north of AWPR to allow estimated 1.34ha to return to agricultural use reducing area lost to 0.68ha (33% of field area). Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate. Merge regraded area to north of main alignment with 65/4 and 65/7. Potential excambian to Land Ref 61.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	7	Field area 1.68ha. LCA Class 3.2. Loss of 1.48ha (88% of field area) to main alignment, interchange, embankment construction and landscaping.				Re-grading of embankment on north of main alignment to allow estimated 1.32ha to return to agricultural use reducing area lost to 0.16ha (9% of field area). Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate. Merge regraded area to north of main alignment with 65/6 and 65/4. Potential excambian to Land Ref 61.	
	8	Field area 2.11ha. LCA Class 3.2. Loss of 0.66ha (31% of field area) to main alignment and landscaping. Loss of drystone wall field boundary and disruption to drainage system.				Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	9	Field area 0.64ha. LCA Class 3.2. Loss of 0.53ha (83% of field area) to main alignment and landscaping.				Regrading of embankments to allow estimated 0.09ha to return to agricultural use. Reduces land take to 0.44ha. Merge regraded area with field 65/7. Potential excambian to Land Ref 61. Merge remaining field area to south of main alignment with 65/8. Reinstatement boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	10	Field area 2.46ha. LCA Class 3.2. Loss of 0.15ha (6% of field area) to main alignment and landscaping. Loss of drystone wall field boundary and disruption to drainage system.				Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	11	Field area 2.36ha. LCA Class 3.2. Loss of 0.06ha (3% of field area) to main alignment and landscaping. Loss of drystone wall field boundary and disruption to drainage system.				Provision and reinstatement of boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	

\* Sensitivity

\*\* Magnitude

\*\*\* Significance

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 11.54ha of LCA Class 3.2 land equating to 17% of farm area. Creation of small irregular fields. Severance of 2ha (equating to 3% of farm area). Loss of field access, field boundary drystone walls, livestock watering points and disruption to field drainage system.	M	H	Mod/Sub	Re-grading of land to allow return to agricultural use (estimated 5.49ha) reducing land take to 6.05ha (9% of farm area). Merging of fields to create more workable parcels. Potential excambian to Land Ref 61. Reinstatement and provision of new drystone walls, livestock watering points and drainage as appropriate. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod/Sub
Howemoss Land Ref 61	1	Field area 1.91ha. LCA Class 3.2. Loss of whole field to main alignment and landscaping.				Regrading of embankment allows potential for 0.14ha to be returned to agricultural use reducing area lost to 1.77ha. Potential excambian of severed land to Land Ref 250.	
	2	Field area 2.13ha. LCA Class 3.2. Loss of whole field to main alignment and landscaping. Disruption to house/steading private water supply.				No mitigation possible other than financial compensation. Re-instatement of private/mains water supply.	
	3	Field area 2.04ha. LCA Class 3.2. Loss of 1.05ha (51% of field area) to embankment construction for main alignment. Impact on existing drainage system and drystone dyke boundaries.				Re-grading allowing return of 0.81ha to agricultural use reducing area lost to 0.24ha (12% of field area). Retention of existing and provision of new (where required) drystone dyking. Tie in drainage schemes and install where appropriate.	
	4	Field area 3.69ha. LCA Class 3.2. Loss of 0.56ha (15% of field area) to construction of main alignment embankment and access track. Impact on existing drainage system and drystone dyke boundaries.				Retention of existing and provision of new (where required) drystone dyking. Tie in drainage schemes and install where appropriate.	
	5	Field area 2.85ha. LCA Class 3.2. Loss of 0.32ha (11% of field area) to construction of main alignment embankment. Impact on existing drainage system and drystone dyke boundaries.				Regrading to allow 0.20ha to return to agriculture reducing area lost to 0.12ha (4% of field area). Retention of existing and provision of new (where required) drystone dyking. Tie in drainage schemes and install where appropriate.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 5.97ha of LCA Class 3.2 land equating to 23% of farm area in 5 fields. Severance of estimated 2ha (6% of farm area) by main alignment. Loss of access. Loss of drystone wall field boundaries and disruption to field drainage system and house/steading private water supply.	M	H	Sub	Re-grading of land to allow return to agriculture (estimated 1.15ha) leaving reduced land take of 4.82ha (18% of farm area). Retention of existing and provision of new (where required) drystone dyking. Tie in drainage schemes and install where appropriate. Reinstate private/mains water supply.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sub
Kirkhill Forest Land Ref 250	1	Loss of 2.75ha of forestry land. Severance of area to east of main alignment but access via shared access with Land Ref 61 is maintained. Footpaths and cycle paths severed by main alignment.				Felling of areas to create windfirm edge. Provision of new footpath and cycle path.	
	2	Loss of 7.98ha of forestry land. Severance of area to east of main alignment. Footpaths and cycle paths severed by main alignment.				Provision of wildlife overbridge as well as Kirkhill Overbridge to allow access to severed area. Kirkhill overbridge construction sufficient to meet logging requirements and allow footpath and cyclepath links between areas. Felling of areas to create windfirm edge.	
	3	Loss of 4.42ha of forestry land for creation of SUDS ponds and associated access.				Felling to create windfirm edge. Access to SUDS ponds also to be used for forestry access.	
		Loss of 15.15ha of forestry land (3% of total area). Creation of severed areas (estimated 31ha equating to 31% of total area). Increased risk of windthrow.	Low	Low	Neg/Sli	Provision of access for forestry activities to severed land via Kirkhill overbridge. Provision of footpath and cyclepath links via Kirkhill overbridge. Access to SUDS ponds to be used for forestry activity. Felling of areas to create windfirm edges.  LU1, LU2, LU4, LU5, LU6, LU7, LU8, LU10, LU11, LU12, LU14, LU15, LU16, LU17, LU19, LU20, LU21.	Neg/Sli

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
Standing Stones Land Ref 56	1	Field area 3.45ha. LCA Class 3.2. Loss of 0.73ha (21% of field area) to construction of main alignment, landscaping and wildlife bridge. Loss of drystone wall field boundaries. Disruption to drainage system and watering point for livestock.				Provision and reinstatement of field boundaries and ensure drainage schemes and water supply are tied in or installed as appropriate.	
	2	Field area 2.90ha. LCA Class 3.2. Loss of whole field to main alignment and landscaping.				No mitigation possible other than financial compensation.	
	3	Field area 4.52ha. LCA Class 3.2. Loss of 0.37ha (8% of field area) to construction of main alignment and landscaping. Impact on existing field and farm water supply as well as the drainage system. Loss of drystone dyke boundary.				Retention of existing and provision of new (where required) drystone dyking. Reinstatement of drainage schemes (tied in or installed as appropriate) and water supply to field and stading.	
	4	Field area 3.10ha. LCA Class 3.2. Loss of whole field to main alignment and landscaping.				No mitigation possible other than financial compensation.	
	5	Field area 3.04ha. LCA Class 3.2. Loss of 0.83ha (27% of field area) to construction of main alignment and landscaping. Disruption to field boundary and drainage system.				Reinstatement of boundary drystone wall and field drainage system (tie in and install where appropriate).	
			Loss of 7.93ha of LCA Class 3.2 equating to 12% of farm area. Severance estimated 4ha equating to 6% of total farm area. Loss of boundary features, access, water supply and disruption to existing field drainage system.	M	H	Mod/ Sub	Reinstatement of field boundaries and ensure drainage systems and water supplies are tied in or installed as required.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.
Bogenjoss Farm Land Ref 55	1	Field area 2.89ha. LCA Class 3.2. Loss of 0.80ha (28% of field area) to main alignment. Impact on existing drainage system and drystone wall boundaries.				Reinstatement of boundary drystone walls and field drainage system (tie in and install where appropriate).	
	2	Field area 2.32ha. LCA Class 3.2. Loss of 1.31ha (56% of field area) to main alignment. Loss of field boundary. Disruption to field drainage system.				Provision of and reinstatement of boundaries. Ensure drainage schemes and water supply are tied in or installed as appropriate.	
	3	Field area 2.12ha. LCA Class 3.2. Loss of whole field to construction of main alignment, embankment and landscaping.				No mitigation possible other than financial compensation.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	4	Field area 1.41ha. LCA Class 3.2. Loss of 0.34ha (24% of field area) to embankment construction and landscaping. Impact on existing drainage system and drystone dyke boundaries.				Provision of and reinstatement of drystone dyke boundaries. Ensure drainage schemes and water supply are tied in or installed as appropriate.	
	5	Field area 2.03ha LCA Class 3.2. Loss of whole field to main alignment construction, embankment and landscaping.				No mitigation possible other than financial compensation.	
	6	Field area 3.27ha. LCA Class 4.1. Loss of 0.71ha (22% of field area) to access from Kirkhill overbridge, landscaping and re-routing of Bogenjoss burn. Disruption to field boundary and drainage system.				Provision and reinstatement of drystone dyke and fence boundaries. Ensure drainage system is tied in or installed as appropriate.	
		Loss of 7.31ha of which 6.60ha LCA Class 3.2 and 0.71ha LCA Class 4.1 equating to 47% of farm area. Severance of estimated 5ha (31% of farm area). Loss of drystone wall field boundaries and disruption to field drainage system.	M	H	Sub	Provision of access to severed land via Kirkhill Overbridge. Retention of existing and provision of new (where required) drystone walls. Tie in drainage schemes and install where appropriate. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sub
Pitmedden Home Farm Land Ref 59	1	Field area 0.61ha. Woodland. Loss of 0.34ha (56% of field area) to embankment regarding. Loss of boundary drystone walls and shelter for livestock.				Replacement of boundary drystone walls as required.	
	2	Field area 11.51ha. LCA Class 6.1 and woodland. Loss of 4.34ha LCA Class 6.1 and 0.01ha woodland (38% of field area) to main alignment and embankment regrading. Field severed from main steading. Loss of boundary drystone walls, field access, livestock watering point. Disruption to field drainage system.				Replacement of boundary drystone walls as required. Provision of livestock watering point. Tie in and install drainage as appropriate. Access to severed area provided by Farm Accommodation Overbridge.	
	3	Field area 4.18ha. LCA Class 6.1. Loss of 3.06ha (73% of field area) embankment and regrading. Loss of field boundary drystone walls. Disruption to field access, livestock watering point and field drainage system.				Re-grading of embankment and potential return to agriculture. Estimated 2.00ha reducing land lost to 1.06ha (25% of field area). Provision of re-instated field boundary drystone walls. Provision of drainage system, tied in and installed as appropriate. Re-instatement of field access and watering point for livestock.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	4	Field area 3.52ha. LCA Class 3.2. Loss of 0.31ha (9% of field area). Loss of boundary drystone wall. Disruption to field drainage system.				Reinstatement of field boundary drystone wall and drainage system (tied in and replaced as required).	
	5	Field area 3.95ha. LCA Class 5.3. Loss of 3.05ha (77% of field area) to embankment re-grading. Loss of boundary drystone walls, field access, and watering point for livestock. Disruption to field drainage system.				Re-grading of embankment with potential return to agriculture. Estimated 1.66ha reducing land lost to 1.39ha (35% of field area). Provision of re-instated field boundary drystone walls. Provision of drainage system, tied in and installed as appropriate. Re-instatement of field access and watering point for livestock.	
	6	Field area 3.70ha. LCA Class 3.2. Loss of 0.87ha (26% of field area) to re-grading of embankment. Loss of boundary drystone walls, field access, and watering point for livestock. Disruption to field drainage system.				Provision of re-instated field boundary drystone walls. Provision of drainage system, tied in and installed as appropriate. Re-instatement of field access and watering point for livestock.	
	7	Field area 7.03ha. Woodland and LCA 5.2. Loss of 2.82ha (40% of field area) to main alignment and embankment and planting. Of this 2.59ha woodland and 0.23ha LCA Class 5.2. Loss of boundary drystone walls, field access and disruption to forestry drainage system. Loss of shelter for livestock. Severed from main steading.				Felling to create windfirm edge. Re-instatement of boundary drystone walls and access points. Provision of drainage, tied in and installed as appropriate. Access to severed area provided by Farm Accommodation Overbridge.	
	8	Field area 4.03ha. LCA Class 3.2 and woodland. Loss of 3.13ha (78% of field area) to main alignment and earthworks of which 2.89ha is LCA Class 3.2 and 0.24ha is woodland. Loss of boundary drystone walls, field access and disruption to field drainage system.				Merge southern severed area with severed area of 59/9. Re-instate field boundary drystone walls as appropriate. Provide watering points for livestock and tie in and install drainage as required.	
	9	Field area 3.71ha. LCA Class 3.2. Loss of 3.28ha (88% of field area) to main alignment, associated earthworks and farm accommodation overbridge. Field severed. Loss of boundary drystone walls, field access and disruption to field drainage system.				Merge southern severed area with severed area of 59/8. Re-instate field boundary drystone walls as appropriate. Provide watering points for livestock and tie in and install drainage as required. Provide access to severed area via Farm Accommodation Overbridge. Provide livestock holding areas on north and south side of overbridge.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	10	Field area 2.69ha. Woodland. Loss of 0.07ha (3% of field area) to Pitmedden Accommodation Overbridge access track. Loss of boundary feature and increased risk of windthrow.				Felling to create windfirm edge. Re-instatement of boundary feature.	
		Loss of 21.28ha of land (7.35ha LCA Class 3.2, 3.05ha LCA Class 5.3, 7.63ha LCA Class 6.1 and 3.25ha woodland) in 10 fields. Land lost equates to 17% of farm area. Severance of estimated 26ha (21% of farm area), loss of drystone wall field boundaries and disruption to field drainage system.	M	H	Mod/Sub	Provision of access to severed land via Farm Accommodation Overbridge. Regrading and return to agriculture of 3.66ha reducing land take to 17.62ha (14% of farm area). Retention of existing and provision of new (where required) drystone walls with appropriate field access. Tie in drainage schemes and install where appropriate. Fell to create windfirm edge. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU19, LU20, LU21, LU22, LU23.	Mod/Sub
Upper Kirkton Land Ref 53	1	Field area 5.26ha. LCA Class 3.2 and woodland. Loss of 3.64ha (69% of field area) to main alignment, associated earthworks and Farm Accommodation Overbridge. Of this, 2.20ha LCA Clas 3.2 and 1.44ha woodland. Field severed. Loss of boundary drystone walls, field access, disruption to field drainage system and watering point for livestock. Additionally, loss of spring water supply to steading.				Provide access to severed land via Farm Accommodation Overbridge with stock holding pens on either side to aid stock movement. Regrading allows potential to return 0.04ha to agriculture reducing land lost to 0.19ha (4% of field area). Reinstate field boundaries with drystone walls as appropriate. Provide new watering point for livestock to north of main alignment. Provide water supply to steading. Restore drainage system and tie in and install as required.	
	2	Field area 5.09ha. LCA Class 3.2. Loss of 0.23ha (5% of field area) to main alignment and associated earthworks. Loss of boundary drystone walls, and field access. Disruption to field drainage system and watering arrangements for livestock. Field severed from main steading.				Provide access to severed land via Farm Accommodation Overbridge in Field 53/1 with shared stock holding pens on either side to aid stock movement. Reinstate field boundaries with drystone walls as appropriate. Ensure watering point for livestock to north of main alignment. Restore drainage system and tie in and install as required.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	3	Field area 3.80ha. LCA Class 3.2. Loss of 0.07ha (2% of field area) to main alignment and associated earthworks. Loss of boundary drystone walls, and field access. Disruption to field drainage system.				Reinstate field boundaries with drystone walls as appropriate. Restore drainage system and tie in and install as required.	
	4	Field area 6.82ha. LCA Class 3.1. Loss of 3.31ha (49% of field area) to main alignment and re-grading. Loss of boundary drystone walls, and field access. Disruption to field drainage system and watering arrangements for livestock. Field severed.				Provide access to severed land via Farm Accommodation Overbridge in field 53/1 with shared stock holding pens on either side to aid stock movement. Re-grade and return to agriculture estimated 0.83ha, reducing land lost in field to 2.48ha (36% of field area). Reinstate field boundaries with drystone walls as appropriate. Provide new watering point for livestock to north and south of main alignment. Restore drainage system and tie in and install as required.	
		Loss of 7.25ha of land (3.31ha LCA Class 3.1 and 3.94ha LCA Class 3.2). Land lost equates to 8% of farm area. Severance estimated 14ha equating to 15% of farm area and access compromised. Loss of boundary drystone walls, field access, watering points for livestock and disruption to field drainage system. Loss of spring water supply to steading.	M	H	Mod/ Sub	Provide shared (with Land Ref 59) Farm Accommodation Overbridge with livestock holding pens to north and south to allow movement of stock. Regrading allowing potential return to agriculture of 0.87ha reducing land take to 6.38ha (7% of farm area). Retention of existing and provision of new (where required) drystone walls with appropriate field access. Tie in drainage schemes and install where appropriate. Provide watering points for livestock. Provide water supply to steading.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod
Nether Kirkton Land Ref 52	1	Field area 3.27ha. LCA Class 3.2. Loss of 2.43ha (74% of field area) to main alignment, associated earthworks, realignment of Pitmedden Road (C55C) and provision of Pitmedden Road Underbridge. Field access compromised. Loss of boundary drystone walls/fences and field access. Disruption to field drainage system.				Reinstate field boundaries with drystone walls/fences as appropriate. Provide new access and watering point for livestock to north of main alignment. Restore drainage system and tie in and install as required.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	2	Field area 10.02ha. LCA Class 3.2. Loss of 0.04ha (less than 1% of field area) for main alignment and associated earthworks. Field severed from main steading. Loss of boundary drystone walls/fences and disruption to field drainage system.				Provide access under River Don Crossing and through fields 52/4, 52/5 and 52/3. Reinstatement field boundaries with drystone walls/fences as appropriate. Restore drainage system and tie in and install as required.	
	3	Field area 3.34ha. LCA Class 3.2. Loss of 3.02ha (90% of field area) for main alignment and associated earthworks. Loss of boundary drystone walls/fences and disruption to field drainage system.				Provide access under River Don Crossing and through fields 52/4, 52/5 and 52/6. Merge remaining area to north of main alignment with field 52/2. Reinstatement field boundaries with drystone walls/fences as appropriate. Restore drainage system and tie in and install as required.	
	4	Field area 2.89ha. LCA Class 3.2. Loss of 0.25ha (9% of field area) to main alignment earthworks. Field severed from main steading. Loss of boundary drystone walls/fences and disruption to field drainage system.				Provide access under River Don Crossing and through fields 52/5 and 52/6. Reinstatement field boundaries with drystone walls/fences as appropriate. Restore drainage system and tie in and install as required.	
	5	Field area 1.79ha. LCA Class 3.2. Loss of 1.44ha (80% of field area) to main alignment, associated earthworks and River Don Crossing. Loss of field boundary drystone walls/fences.				Maintain access under River Don Crossing to allow machinery, vehicle and livestock movements to severed land. Reinstatement boundary drystone walls/fences as appropriate.	
	6 & 354/1	Field area 6.44ha. LCA Class 3.1. Loss of 5.62ha (77% of field area) for creation of SUDS ponds and access track. Disruption to boundary drystone walls/fences as well as drainage system. Loss of livestock holding area and handling pens.				Share use of new access track to River Don Crossing and SUDS ponds. Create holding area for loading/unloading livestock with livestock handling pens. Reinstatement boundary drystone walls/fences as appropriate. Restore drainage system and tie in and install as appropriate.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 12.81ha (5.62ha LCA Class 3.1 and 7.19ha of LCA Class 3.2) in 6 fields equating to 44% of farm area. Fields severed (estimated 14ha equating to 47% of farm area). Loss of access, boundary drystone walls/fences and disruption to drainage system.	M	H	Mod/ Sub	Re-grade and return to agriculture 1.25ha. Utilise Pitmedden Road Underbridge and access provided under River Don Crossing to allow access to severed areas. Provide holding areas for loading/unloading livestock and replacement handling pens. Share new access track to SUDS ponds and River Don Crossing. Restore boundary drystone walls/fences as appropriate including merging of fields. Tie in and install drainage as required.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod/Sub
Goval Farm Land Ref 58	1	Field area 6.48ha. LCA Class 3.2. Loss of 1.65ha (25% of field area) to River Don Crossing and maintenance access track. Disruption to field boundary drystone walls, field access and field drainage system.				Reinstatement of field access and field boundary drystone walls tied into provision of new access track. Tie in and install new drainage as appropriate.	
	2	Field area 0.35ha. Woodland. Loss of 0.29ha (83% of woodland area) to River Don Crossing. Loss of trees and boundary fencing. Loss of shelter for livestock.				Fell area as appropriate to create windfirm edge. Reinstatement of boundary fencing as appropriate.	
	3	Field area 5.19ha. LCA Class 3.1. Loss of 3.13ha (60% of field area) to River Don Crossing, access track, B977 West Overbridge, main alignment and associated earthworks. Field severed. Disruption to access, loss of boundary drystone walls and disruption to field drainage system.				Provide field access from B977 via new access track. Provide recessed area at access point to allow machinery/vehicles to access safely from the road. Provide boundary drystone wall along access track to separate from neighbouring field (58/4). Merge small north-western corner with field 58/4. Provide access for livestock, vehicles and machinery to severed area to south of main alignment under the River Don Crossing. Provide boundary fencing between landscape and ecological planting on B977 Overbridge earthworks and the remaining area of the field. Tie in and install drainage as required.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	4	Field area 3.28ha. LCA Class 3.2. Loss of 0.24ha (7% of field area) to River Don Crossing maintenance track and B977 West Overbridge. Disruption to boundary drystone walls and access as well as drainage system.				Provide access to field from new access track. Merge field with small north-western corner of 58/3. Provide new boundary drystone walls as appropriate. Tie in and install new drainage as appropriate.	
	5	Field area 1.50ha. LCA Class 3.2. Loss of 0.14ha (9% of field area) to B977 West Overbridge and realigned farm access. Loss of boundary drystone walls and field access. Disruption to drainage system.				Re-instate boundary drystone walls and field access. Provide cattle grid on farm access track to prevent straying of livestock. Tie in and restore field drainage as required.	
	6	Field area 0.11ha. Woodland. Loss of whole area to B977 West Overbridge.				No mitigation possible other than financial compensation.	
	7	Field area 3.89ha. LCA Class 3.2. Loss of 2.43ha (62% of field area) to B977 West Overbridge. Disruption to and loss of field boundary drystone walls and fencing, field access, livestock watering points and drainage system.				Re-instate boundary drystone walls and fences as appropriate including provision of field access from farm steading access track. Maintain existing livestock watering point and provide new trough for severed area. Restore field drainage system, tying in and installing new as appropriate.	
	8	Field area 7.50ha. LCA Class 3.2. Loss of 0.32ha (4% of field area) to main alignment and associated earthworks. Severed from farm steading. Loss of boundary fencing, access point and disruption to field drainage system.				Provide field access from B977 Overbridge via old B977. Additionally, ensure access between field and neighbouring 58/3. Re-instate field boundary fencing and tie in drainage and install new as required.	
	9	Field area 6.43ha. LCA Class 3.1. Loss of 4.02ha (63% of field area) to main alignment and associated earthworks (including re-grading), B977 West Overbridge and SUDS ponds. Disruption to field boundary drystone walls and fencing, field access, and field drainage system.				Merge with 58/9 and provide new fencing and drystone walls to secure field boundary. Potential to return re-graded area to agriculture. Estimated 0.76ha reducing area lost in field to 3.26ha (51% of field area). Ensure livestock watering point available. Restore drainage system, tying in and providing new as required.	

\* Sensitivity

\*\* Magnitude

\*\*\* Significance

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	10	Field area 8.70ha. LCA Class 3.2. Loss of 1.38ha (16% of field area) to B977 West Overbridge. Field severed from main steading. Disruption to and loss of field boundary drystone walls, field access and field drainage.				Provide new drystone walls to secure field boundary. Ensure access provided from B977 with recessed area to allow machinery/vehicles to access from road safely. Ensure drainage tied in and installed as required.	
	11	Field area 11.03ha. LCA Class 3.2. Loss of 0.07ha (1% of field area) to B977 West Overbridge. Field severed from main steading. Loss of boundary drystone wall and disruption to field access and drainage system.				Provide replacement drystone wall to secure field boundary. Ensure access provided with recessed area to allow safe access from B977. Tie in and install drainage as required.	
	12	Field area 1.95ha. LCA Class 3.2. Loss of 1.84ha (94% of field area) to main alignment and associated earthworks (including re-grading) and SUDS ponds. Disruption to and loss of field boundary drystone walls and fencing, access, and drainage. Additionally, main alignment transects water main for field troughs and farm steading.				Potential to return re-graded area to agriculture. Estimated 0.64ha reducing area lost in field to 1.20ha (61% of field area). Merge remaining area with 58/9 to create more workable field. Re-instate field boundary to secure field with drystone wall/fencing as required. Re-route water main or provide alternative supply to secure and maintain mains water supply for water troughs and steading. Tie in drainage and provide new as required.	
	13	Field area 1.25ha. LCA Class 3.1. Loss of 1.10ha (88% of field area) to main alignment and associated earthworks (including re-grading). Field severed by main alignment. Disruption to and loss of access, field boundary drystone walls and fencing and field drainage system.				Provide access to severed area through retention of existing alignment of A947 with shared access with Parkhill Pumping Station. Potential to return re-graded area to agriculture. Estimated 0.38ha reducing area lost in field to 0.72ha (58% of field area). Ensure provision of livestock watering points in both sections of the field. Ensure drainage tied in or installed as required.  Additionally, provide cattle grid at end of farm access track to prevent straying of livestock onto carriageway or side roads.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	14	Field area 6.60ha. LCA Class 3.2. Loss of 3.88ha (59% of field area) to A947 Overbridge and associated earthworks. Field severed by main alignment and by A947 Overbridge. Disruption to and loss of field access, boundary drystone walls and fences, and drainage system.				Merge northern section of remaining field with 58/15 and re-instate boundary drystone walls and fences as appropriate. Ensure recessed access to field is provided from A947 (existing road). Relocate existing water trough in this area to field boundary. Tie in existing drainage and install new as appropriate.  Reinstate boundary drystone walls and fences in severed area to south of main alignment and to west of A947 Overbridge. Provide access to land parcel via existing A947 link to Parkhill Pumping Station. Ensure watering point for livestock is provided and that drainage is tied in or installed as appropriate.	
	15	Field area 3.70ha. LCA Class 3.2. Loss of 2.14ha (58% of field area) to A947 Overbridge and associated earthworks. Field severed by A947 re-alignment and overbridge. Disruption to and loss of field access, boundary drystone walls and fences and drainage system.				Merge area to west of A947 with remaining portion of 58/14. Ensure recessed field access provided from existing A947. Re-instate field boundary drystone walls/fences as appropriate. Relocate water trough to field boundary. Ensure drainage system tied in or installed as required.	
	16	Field area 5.09ha. LCA Class 3.2. Loss of 1.57ha (31% of field area) to re-aligned A947 and associated earthworks. Field severed from main steading. Loss of or disruption to field access, boundary drystone walls/fences and drainage system.				Ensure boundary drystone walls/fences are provided to secure field. Ensure access to field is maintained from existing A947 road servicing Parkhill Pumping Station. Ensure watering point for livestock is available. Tie in existing drainage or provide new as required.	
	17	Field area 3.62ha. LCA Class 3.2. Loss of 2.44ha (67% of field area) to re-aligned A947 and associated earthworks. Loss of or disruption to field access, boundary drystone walls/fences, livestock watering points and field drainage. Field is severed from main steading. Field is severed by link between A947 and B977 and by the re-aligned A947.				Provide access to western remaining area of the field from link between A947 and B977 and the re-aligned B977. Access should be recessed to allow safe access for machinery and vehicles. Provide secure boundary drystone walls or fences as required. Provide watering point for livestock.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	18	Field area 5.44ha. LCA Class 3.2. Loss of 1.62ha (30% of field area) to re-alignment of Echt – Balmedie Road (B977). Field severed from farm steading. Loss of or disruption to field access, boundary drystone walls/fences, and field drainage.				Provide boundary drystone walls/fences as required to secure field. Provide recessed access from re-aligned farm access track. Ensure drainage system is tied in or installed as required.	
	19	Field area 3.80ha. LCA Class 3.2. Loss of 0.63ha (17% of field area) to re-aligned A947. Field severed from main steading. Disruption to or loss of boundary drystone walls/fences, field access, livestock watering point and field drainage.				Provide new boundary drystone wall/fence as required to secure field. Ensure access to field is provided via re-aligned farm access track. Tie in existing drainage system or install as required.	
	20	Field area 0.51ha. Woodland. Loss of 0.12ha (24% of woodland area) to re-alignment of A947. Woodland severed from main steading. Loss of trees along with boundary drystone walls/fences. Loss of shelter for livestock.				Fell area as appropriate to create windfirm edge. Reinstate boundary fencing as appropriate.	
	21	Field area 8.93ha. LCA Class 3.2. Loss of 0.93ha (10% of field area) to re-alignment of A947. Field severed from main steading. Disruption to or loss of field access, boundary drystone walls/fences and drainage system.				Replace boundary drystone wall/fence as required. Ensure field access is provided off new farm track access to Home Farm. Ensure watering point for livestock and that drainage is tied in or installed as required.	
	22	Field area 6.11ha. LCA Class 3.2. Loss of 2.11ha (35% of field area) to re-alignment of A947. Field severed by re-aligned A947 and link from this to existing A947. Disruption to or loss of boundary drystone walls and fences, field access, watering points for livestock and field drainage system.				Provide access to severed area to east of re-aligned A947 from the A947. Ensure access is recessed to allow safe access for machinery and vehicles. Replace drystone walls and fences as required to create secure field boundary. Ensure watering point for livestock and that drainage system is tied in or replaced as required.  Provide access to area to west of A947 re-alignment from existing A947. Ensure access is recessed to allow safe access for machinery and vehicles. Replace drystone walls and fences as required to create secure field boundary. Ensure watering point for livestock and that drainage system is tied in or replaced as required.	
	23	Field area 1.37ha. Woodland. Loss of 0.24ha (18% of woodland area) to re-alignment of A947. Loss of shelter for livestock and boundary drystone wall/fence.				Fell area as appropriate to create windfirm edge. Reinstate boundary fencing as appropriate.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	24	Field area 4.66ha. LCA Class 3.2. Loss of 0.63ha (14% of field area) to realignment of B947 Echt- Balmeadie Road. Disruption to and loss of boundary fence, access and drainage system				Provide recessed access from realigned B977. Reinstatement boundary fencing. Ensure watering point for livestock and that drainage system is tied in or replaced as required.	
	25	Field area 0.39ha. Woodland. Loss of 0.28ha (72% of woodland area) to re-alignment of A947. Loss of shelter for livestock and boundary drystone wall/fence.				Fell area as appropriate to create windfirm edge. Reinstatement boundary fencing as appropriate.	
		Loss of 33.29ha (3% of farm area) in 25 fields. Loss of 8.25ha LCA Class 3.1, 24.00ha LCA Class 3.2 and 1.04ha woodland. Fields severed from main steading and fields severed by main alignment, B977 West Overbridge, A947 Overbridge and by re-alignment of A947 and B977. Severance estimated 49ha (5% of farm area). Disruption to and loss of boundary drystone walls and fences, field access, watering points for livestock and field drainage system. Additionally disruption to mains water supply for field troughs and steading.	M	H	Mod/ Sub	<p>Re-grading and return to agriculture of 1.78ha land (1.14ha LCA Class 3.1 and 0.64ha LCA Class 3.2). This reduces land take to 31.51ha.</p> <p>Provision of access to severed areas via existing and new road network, creation of new field access points with, where appropriate, recessed access to allow safe movement of vehicles and machinery.</p> <p>Merging of fields where appropriate to create more workable parcels and re-instatement of field boundaries with drystone walls and fences as required.</p> <p>Provision of cattle grids at the end of both farm access tracks to prevent straying of loose livestock.</p> <p>Provision of water supplies and maintenance of water mains supply to steading and field troughs (existing and new).</p> <p>Tie in existing drainage and install new as required.</p> <p>Felling of woodland as required and to create windfirm edge.</p> <p>LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU19, LU20, LU21, LU22, LU23.</p>	Mod

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
Waulkmill Farmhouse Land Ref 25	1	Field area 2.99ha. LCA Class 3.2. Loss of 0.21ha (3% of field area) to realignment of A947. Disruption to and loss of field access, field boundary fence and drainage system.				Provision of new boundary fence with recessed access from re-aligned A947. Drainage tied in and installed as required.	
	2	Field area 4.01ha. LCA Class 3.2. Loss of 0.09ha (2% of field area) to realignment of A947. Disruption to and loss of field access, field boundary fence and drainage system.				Provision of new boundary fence with recessed access from re-aligned A947. Drainage tied in and installed as required.	
		Loss of 0.29ha Class 3.2 land (1% of farm area). Loss of and disruption to field access, field boundaries and field drainage.	L	L	Neg/Sli	Provision of new boundary fencing with recessed access and drainage tied in and replaced as required. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Neg/Sli
Waulkmill Croft Land Ref 26	1	Field area 1.45ha. LCA Class 3.2. Loss of 0.17ha to main alignment and associated earthworks and A947 Junction. Loss of and disruption to field access, field boundaries and field drainage				Provision of new boundary fencing. Tie in drainage and replace as required.	
	2	Field area 0.85ha. LCA Class 3.2. Loss of 0.13ha (15% of field area) to main alignment earthworks and A947 Junction. Loss of boundary fence and disruption to field drainage system.				Provision of new boundary fencing. Tie in drainage and replace as required. Ensure livestock watering point provided.	
	3	Field area 0.44ha. LCA Class 3.2. Loss of 0.21ha (48% of field area) to main alignment embankment. Loss of boundary fence and disruption to field drainage system.				Provision of new boundary fencing. Tie in drainage and replace as required.	
	352/1	Field area 0.40ha. LCA Class 3.2. Loss of whole area to main alignment.				No mitigation possible other than financial compensation.	
		Loss of 0.91ha. LCA Class 3.2 in 4 fields equating to 26% of farm area. Severance estimated 0.1ha equating to 4% of farm area. Loss of boundary fencing and disruption to field drainage.	M	H	Mod/Sub	Provision of new boundary fencing. Tie in drainage and replace as required. Ensure livestock watering point provided. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod/Sub
Meadowlands	1, 2 & 3	Fields area 5.22ha. LCA Class 3.2. Loss of entire area for main alignment and associated earthworks and A947 Junction.				No mitigation possible other than financial compensation.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
Land Ref 28		Loss of 5.22ha (entire farmed area) of LCA Class 3.2 land.	H	H	Sub	LU5, LU23	Sub
Meadowhead Farm Land Ref 34	1	Field area 3.08ha. LCA Class 3.2. Loss of 2.60ha (84% of field area) to main alignment, associated earthworks (including re-grading) and A947 Goval Junction. Field severed. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Restore boundary fencing/wall in northern portion of remaining field to secure boundary. Ensure access from farm track is maintained. Tie in and install drainage as required.  Re-grading allows potential return to agriculture to south of main alignment. Estimated 0.09ha reducing landtake to 2.51ha (81% of field area). Merge severed area to south of main alignment with field 34/3 and provide bridge across Corsehill Burn to link fields with design suitable for livestock, vehicles and machinery. Ensure boundary fencing/drystone walls create secure field boundary. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	
	2	Field area 2.45ha. LCA Class 3.2. Loss of 0.68ha (28% of field area) to main alignment, associated earthworks (including re-grading) and A947 Goval Junction. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Merge remaining area with field 34/4. Replace boundary drystone wall/fence. Provide access from re-aligned B977 through field 34/2 and across Corsehill Burn (South) via new bridge suitable for livestock, vehicles and machinery. Ensure boundary fencing/drystone walls create secure field boundary. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	
	3	Field area 1.06ha. LCA Class 4.2. Loss of 0.44ha (42% of field area) to A947 Goval Junction and re-aligned B977. Field severed from steading. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Regrading allows potential to return to agriculture 0.08ha reducing area lost to 0.36ha. Replace boundary fencing/drystone wall along re-aligned B977 and provide access from road to field via recessed gate. Provide bridge of suitable design to cross Corsehill Burn (South) to allow movement of livestock, vehicles and machinery and provide link with field 34/4. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	4	Field area 1.98ha. LCA Class 3.2. Loss of 0.41ha (21% of field area) to main alignment earthworks (including re-grading) and A947 Goval Junction. Field severed from steading. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Re-grading allows potential return to agriculture. Estimated 0.11ha reducing land take in this field to 0.25ha (13% of field).  Merge field with re-graded areas in fields 34/5. Replace boundary fences/drystone walls to create secure field. Ensure access provided from B977 through field 34/3 and over Corsehill Burn (South) using new bridge of suitable design to allow livestock, vehicle and machinery movements. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	
	5	Field area 1.25ha. LCA Class 5.3. Loss of whole field to main alignment, associated earthworks (including re-grading) and A947 Goval Junction.				Re-grading allows potential return to agriculture. Estimated at 0.06ha reducing land take to 1.19ha (95% of field area).  Merge remaining area with field 34/4 replacing boundary drystone wall/fence as required creating secure field boundary. Ensure access, drainage and livestock watering are provided as detailed for field 34/4.	
	6	Field area 0.93ha. LCA Class 3.2. Loss of 0.81ha (87% of field area) to main alignment and associated earthworks. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Provide secure field boundary fence/drystone wall with access provided from /to steading and to field 34/1. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	
	7	Field area 2.26ha. LCA Class 3.2. Loss of 1.20ha (53% of field area) to main alignment and associated earthworks and A947 Goval Junction. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Provide secure field boundary fence/drystone wall with access provided from /to steading and to field 34/6. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	8	Field area 1.38ha. LCA Class 3.2. Loss of 0.85ha (62% of field area) to main alignment, associated earthworks and A947 Goval Junction. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Provide secure field boundary fence/drystone wall with access provided from /to steading and to field 34/7. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	
	9	Field area 2.41ha. LCA Class 3.2. Loss of 1.02ha (42% of field area) to main alignment, associated earthworks (including re-grading) and A947 Goval Junction. Field severed from steading. Loss of and disruption to field boundary fences/walls, field access, livestock watering point and field drainage.				Re-grading allows potential return to agriculture. Estimated at 0.25ha reducing land take to 0.77ha (32% of field area). Provide secure field boundary fence/drystone wall with access provided to field 34/4. Tie in existing drainage system and install new drainage as required. Ensure livestock watering point available.	
	10	Field area 0.04ha. Woodland. Loss of whole area to main alignment. Loss of sheltering for livestock.				No mitigation possible other than financial compensation.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 9.30ha (50% of farm area) in 10 fields. Loss of 7.57ha LCA Class 3.2, 0.44ha LCA Class 4.2, 1.25ha LCA Class 5.3 and 0.04ha woodland. Fields severed from main steading and fields severed by main alignment and A947 Goyal Junction. Severance estimated area 6ha (31% of farm area). Disruption to and loss of boundary drystone walls and fences, field access, watering points for livestock and field drainage system.	M	H	Sub	<p>Re-grading and return to agriculture of 0.64ha LCA Class 3.2 land. This reduces land take to 8.66ha (47% of farm area).</p> <p>Provision of access to severed areas via existing and new road network, creation of new field access points with, where appropriate, recessed access to allow safe movement of vehicles and machinery.</p> <p>Merging of fields where appropriate to create more workable parcels and re-instatement of field boundaries with drystone walls and fences as required.</p> <p>Provision of water supplies to fields.</p> <p>Tie in existing drainage and install new as required.</p> <p>Felling of woodland as required.</p> <p>LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU19, LU20, LU21, LU22, LU23.</p>	Sub
The Laurels Land Ref 21	1	Field area 2.43ha. LCA Class 3.2. Loss of 0.90ha (37% of field area) to main alignment and associated earthworks. Impacts on business assessed in Land Use Chapter.				No agricultural mitigation proposed other than financial compensation.	
	2	Field area 0.77ha. LCA Class 3.2. Loss of 0.56ha (73% of field area) to main alignment and associated earthworks. Impacts on business assessed in Land Use Chapter.				No agricultural mitigation proposed other than financial compensation.	
		Loss of 1.45ha LCA Class 3.2 land equating to 36% of farm area. Estimated remaining area (0.50ha) severed and equating to 12% of the farm area.	H	H	Sub	LU5, LU23 N.B. property also assessed for impact on the commercial business (Livery & Cattery) see chapter for further details.	Sub
Newpark Cottage Land Ref 36	1	Field area 0.92ha. LCA Class 6.1. Loss of 0.61ha (66% of field area) to re-aligned link between Echt – Balmedie Road (B977) and Newmachar Church Road (C25C). Disruption to field boundary drystone walls/fences and to field drainage.				Re-instate new boundary fencing/drystone wall, provide field access from road and re-instate drainage system, tying in and replacing as required.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 0.61ha LCA Class 6.1 land equating to 20% of farm area. Disruption to field boundary, access and drainage.	M	H	Mod/Sub	Re-instate field boundary, access and drainage as required.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod/Sub
Hillhead Land Ref 350	1	Field area 2.23ha. LCA Class 3.2. Loss of 0.63ha (28% of field area) to re-aligned link between Echt – Balmedie Road (B977) and Newmachar Church Road (C25C). Disruption to field boundary drystone walls/fences and to field drainage.				Re-instate new boundary fencing/drystone wall, provide field access from road and re-instate drainage system, tying in and replacing as required.	
	2	Field area 0.83ha. Woodland. Loss of whole area to re-aligned link between Echt – Balmedie Road (B977) and Newmachar Church Road (C25C).				No mitigation possible other than financial compensation.	
	3	Field area 30.91ha. Woodland and rough grazing. Loss of 1.27ha woodland to re-aligned link between Echt – Balmedie Road (B977) and Newmachar Church Road (C25C). Disruption to boundary drystone wall/fence and access. Loss of shelter for livestock.				Felling to create windfirm edge. Re-instatement of boundary drystone wall/fence.	
		Loss of 2.73ha (5% of farm area) of which 0.63ha LCA Class 3.2 land and remaining 2.10ha is woodland. Disruption to field boundary and access.	M	L	Sli	Re-instatement of boundary drystone walls/fences and access. Felling of woodland to create windfirm edge.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU19, LU20, LU21, LU22, LU23.	Sli
Corsehill and surrounding Land Ref 29	1	Field area 0.85ha. LCA Class 3.2. Loss of 0.42ha (49% of field area) to main alignment and associated earthworks. Disruption to field boundary drystone wall/fence and drainage system.				Re-instate field boundary with drystone wall/fence as appropriate. Tie in existing field drainage and install new as required.	
	2	Field area 0.13ha. Woodland. Loss of 0.04ha (31% of woodland area). Disruption to field boundary.				Felling as required to create windfirm edge. Reinstatement of boundary fencing and access as required.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 0.46ha (5% of farm area) of which 0.42ha is of LCA Class 3.2 and 0.04ha is woodland. Disruption to field boundary and drainage.	M	M	Mod	Re-instate field boundary and drainage as required. Felling to create windfirm edge. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU19, LU20, LU21, LU22, LU23.	Mod
Littlejohn's Wood Land Ref 302	1	Area 10.52ha. Woodland (felled). Loss of 3.69ha (35% of area) to main alignment, associated earthworks and B977 East Overbridge. Disruption to field boundary. Severance and disruption to access.				Re-instatement of field boundaries with drystone wall/fence as appropriate. Provision of access to northern parcel from re-aligned link between Echt – Balmedie Road (B977) and Newmachar Church Road (C25C). Provision of access to southern parcel from B977 south of B977 East Overbridge.	
		Loss of 3.69ha woodland (35% of land interest area). Severance of 2ha (equating to 19% farm area). Disruption to field boundaries and access.	L	H	Mod	Provision of boundary drystone walls/fences as required and provision of access. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU10, LU11, LU12, LU14, LU15, LU16, LU17, LU23.	Mod
Lochgreens Land Ref 13	1	Field area 2.71ha. LCA Class 3.2. Loss of 0.06ha (2% of field area) to main alignment earthworks. Loss of field boundary drystone wall. Disruption to field drainage system.				Re-instate field boundary drystone wall. Tie in existing drainage system. Ensure access to livestock watering point.	
	2	Field area 5.44ha. LCA Class 3.2. Loss of 2.75ha (51% of field area) to main alignment and associated earthworks. Field severed. Disruption to field boundary drystone walls, access and drainage.				Reinstate field boundary drystone walls. Provide access to area of field to south of main alignment via Lochgreens Overbridge and through fields 13/6 and 13/4. Tie in existing field drainage and install new as required. Ensure access to livestock watering point.	
	3	Field area 6.44ha. LCA Class 3.2. Loss of 1.34ha (21% of field area) to main alignment and associated earthworks. Field severed. Disruption to field boundary drystone walls, access and drainage system.				Reinstate field boundary drystone walls. Merge severed area to south of main alignment with field 13/4. Merge with severed area of field 13/4 to north of main alignment. Reinstate field access. Tie in existing drainage system and provide new as required. Ensure access to livestock watering point.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	4	Field area 5.86ha. LCA Class 3.2. Loss of 0.98ha (17% of field area) to main alignment and associated earthworks. Loss of Lochgreens pond. Field severed from steading and by main alignment. Disruption to and loss of field boundary drystone walls, access and drainage system.				Reinstate field boundary drystone walls. Merge severed area to north of main alignment with field 13/3. Reinstate access ensuring access is provided via Lochgreens Overbridge and through field 13/6 through creation of new field access track. Tie in existing field drainage system and install new as required. Ensure access to livestock watering point.	
	5	Field area 12.79ha. LCA Class 3.1. Loss of 3.04ha (24% of field area) to main alignment, associated earthworks and Lochgreens Overbridge. Field severed by main alignment and Lochgreens Overbridge. Disruption to and loss of field boundary drystone walls, access and field drainage system.				Reinstate field boundary drystone walls. Merge remaining area to south of main alignment and west of Lochgreens Overbridge with field 13/6. Provide access to all areas and ensure drainage tied in and installed as required. Ensure access to livestock watering point.	
	6	Field area 4.15ha. LCA Class 5.1. Loss of 0.74ha (18% of field area) to Lochgreens Overbridge. Field severed by main alignment and by Lochgreens Overbridge. Disruption to and loss of field boundary drystone walls, access and drainage system.				Reinstate field boundary drystone walls. Merge area to west of Lochgreens Overbridge with severed portion of field 13/5. Provide access using Lochgreens Overbridge new field access track and provide new field access as required. Tie in existing drainage system and install as appropriate. Ensure access to livestock watering point.	
	7	Field area 11.89ha. LCA Class 3.1. Loss of 3.20ha (27% of field area) to main alignment and associated earthworks. Field severed by main alignment. Disruption to and loss of field boundary drystone walls, field access, and field drainage system.				Reinstate field boundary drystone walls. Provide access to severed area using Lochgreens Overbridge. Provide new access track and field access as required. Tie in existing field drainage system and install new as required. Ensure access to livestock watering point.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	8	Field area 9.23ha. LCA Class 3.2. Loss of 2.01ha (22% of field area) to main alignment, associated earthworks and SUDS pond. Field severed. Disruption to and loss of field boundary drystone walls, field access and field drainage system.				Regrading of embankment to south of main alignment allows potential for return to agriculture of 0.18ha reducing land take to 1.83ha (20% of field area).  Reinstate field boundary drystone walls and provide field access as appropriate. Provide access to southern severed parcel via Lochgreens Overbridge and through new access track in field 13/7. Merge northern parcel with 13/9. Tie in existing drainage system and provide new as required. Ensure access to livestock watering point.	
	9	Field area 8.71ha. LCA Class 3.1. Loss of 4.23ha (49% of field area) to main alignment and associated earthworks, and SUDS ponds and access. Field severed by main alignment. Disruption to and loss of field boundary drystone walls, access and drainage.				Regrading of embankment to south of main alignment allows potential for return to agriculture of 0.55ha reducing land take to 3.68ha (42% of field area).  Reinstate field boundary drystone walls and field access. Provide access to severed area via Lochgreens Overbridge and through fields 13/7 and 13/8. Merge northern parcel with 13/8. Tie in existing drainage and provide new as required. Ensure access to livestock watering point.	
	10	Field area 13.40ha. LCA Class 3.2. Loss of 1.33ha (10% of field area) to main alignment and associated earthworks (including re-grading). Disruption to and loss of field boundary drystone walls, access and drainage.				Re-grading allows potential to return 0.38ha to agriculture. This reduces the area lost to 0.95ha (7% of field area).  Reinstate field boundary drystone walls as required. Tie in existing drainage system and install new as required. Ensure access to livestock watering point.	
	11	Field area 7.42ha. LCA Class 3.2. Loss of 0.46ha (6% of field area) to creation of new access track. Disruption to and loss of field boundary, access and drainage.				Reinstate field boundary and access as required. Tie in existing field drainage and install as required.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 20.14ha (15% of farm area) in 11 fields to main alignment, associated earthworks (including re-grading), Lochgreens Overbridge and SUDS ponds. 10.47ha LCA Class 3.1 affected, 8.93ha LCA Class 3.2 and 0.74ha LCA Class 5.1. Fields severed by main alignment and fields severed from steading. Severance estimated 58ha (equating to 44% farm area). Disruption to and loss of field boundary drystone walls, access and drainage.	M	H	Mod/Sub	Re-grading allows potential to return 1.11ha to agriculture reducing the total land take to 19.03ha (14% of farm area). Reinstate field boundary drystone walls, merge fields as appropriate, provide new field access and tie in existing drainage system and provide new as required. Ensure access to livestock watering point.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod/Sub
Auchernack/ Leuchlands Land Ref 289	1	Field area 6.02ha. LCA Class 3.2. Loss of 0.97ha (16% of field area) to main alignment and associated earthworks. Disruption to and loss of field boundary drystone wall/fence, access and drainage system.				Re-instate boundary with drystone wall. Ensure access is maintained through field 289/2. Tie in existing drainage system and provide new as required.	
	2	Field area 3.48ha. LCA Class 3.1. Loss of 1.06ha (30% of field area) to main alignment and associated earthworks. Field severed. Disruption to and loss of field boundary drystone walls/fences, access and drainage.				Merge remaining northern parcel with 289/3. Ensure access to north and south of main alignment provided through field to 289/3. Reinstate boundary drystone walls /fences to provide secure boundary. Tie in existing drainage and install new as required.	
	3	Field area 1.56ha. LCA Class 3.2. Loss of 1.31ha (84% of field area) to main alignment, associated earthworks and ecological/landscape mitigation planting.				Ensure access provided to south and north of main alignment to field 289/2. Reinstate boundary features and tie in existing drainage and install new as required.	
	4	Field area 3.90ha. LCA Class 3.2. Loss of 2.82ha to main alignment, associated earthworks and ecological/landscape mitigation.				Merge remaining area to north of main alignment with 289/3 and 289/2. Reinstate boundary features and access. Tie in existing drainage and install new as required.	
	5	Field area 5.22ha. LCA Class 3.2. Loss of 0.54ha (10% of field area) to main alignment and associated earthworks. Field severed. Disruption to and loss of field boundary drystone walls/fences, access and drainage system.				Provision of new boundary drystone wall. Ensure drainage system tied in and installed as required.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
		Loss of 6.70ha (11% of farm area) to main alignment, associated earthworks and ecological/landscape mitigation. 1.06ha LCA Class 3.1 affected and 5.64ha LCA Class 3.2. Some fields severed by main alignment and fields severed from steading. Severance estimated at 3ha (5% of farm area). Disruption to and loss of field boundary drystone walls, access and drainage.	M	H	Mod/ Sub	Regrading allows potential to return 0.34ha to agriculture reducing total land take to 6.36ha (10% of farm area). Reinstate field boundary drystone walls, provide new field access and tie in existing drainage system and provide new as required. Ensure access to livestock watering point.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod/Sub
Cranfield Land Ref 8	1	Field area 3.47ha. LCA Class 3.2. Loss of 1.42ha (41% of field area) to main alignment, associated earthworks and Newtonhill Overbridge. Disruption to and loss of field boundary drystone walls, access and drainage system.				Provide new boundary drystone wall with recessed access with livestock holding area from Leuchlands – Cranbog – Sheilhill Road (U19C). Ensure watering point for livestock provided. Tie in existing drainage system and install new as required.	
	2	Field area 3.43ha. LCA Class 3.1. Loss of 1.39ha (41% of field area) to main alignment, associated earthworks and Newtonhill Overbridge. Disruption to and loss of field boundary drystone walls, access and drainage system.				Provide new boundary drystone wall with recessed access with livestock holding area from Leuchlands – Cranbog – Sheilhill Road (U19C). Ensure watering point for livestock provided. Tie in existing drainage system and install new as required.	
	3	Field area 2.26ha. LCA Class 3.2. Loss of 1.04ha (46% of field area) to main alignment, associated earthworks and Newtonhill Overbridge. Disruption to and loss of field boundary drystone walls, access and drainage system.				Provide new boundary drystone wall with recessed access with livestock holding area from Leuchlands – Cranbog – Sheilhill Road (U19C). Ensure watering point for livestock provided. Tie in existing drainage system and install new as required.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	4	Field area 2.07ha. LCA Class 3.2. Loss of 1.19ha (57% of field area) to main alignment, associated earthworks and Newtonhill Overbridge. Disruption to and loss of field boundary drystone walls, access and drainage system.				Provide new boundary drystone wall with recessed access with livestock holding area from Leuchlands – Cranbog – Sheilhill Road (U19C). Merge with southern portion of field 08/5. Ensure watering point for livestock provided. Tie in existing drainage system and install new as required.	
	5	Field area 3.31ha. LCA Class 3.2. Loss of 1.13ha (34% of field area) to main alignment and associated earthworks. Field severed. Disruption to and loss of field boundary drystone walls, access and drainage system.				Merge area to north of main alignment with field to the north. Merge area to south of main alignment with remainder of field 08/4. Ensure drainage tied in and installed as required.	
	6	Field area 8.09ha. LCA Class 3.2. Loss of 1.62ha (20% of field area) to main alignment and associated earthworks. Field severed. Disruption to and loss of field boundary drystone walls, access and drainage system.				Merge northern portion with northern portion of 08/08. Provide new boundary fence to secure field boundary. Tie in existing drainage system and install new as required.	
	7	Field area 9.55ha. LCA Class 3.1. Loss of 1.49ha (16% of field area) to B999 realignment and Overbridge. Disruption to and loss of field boundary fencing, access and drainage system.				Provide new boundary fence with recessed access and track to livestock holding area from B999. Ensure watering point for livestock provided. Tie in existing drainage system and install new as required. Area to north of main alignment lost to agricultural use.	
	8	Field area 6.74ha. LCA Class 3.2. Loss of 1.02ha (15% of field area) to main alignment and associated earthworks. Field severed. Disruption to and loss of field boundary drystone walls, access and drainage system.				Merge severed area to north of main alignment with 08/06. Provide new boundary fencing, maintain existing access and tie in existing drainage system, providing new as required.	
	9	Field area 4.39ha. LCA Class 3.2. Loss of 3.00ha (68% of field area) to B999 realignment and Overbridge. Disruption to and loss of field boundary fencing, access and drainage system.				Provide new boundary fence with recessed access with livestock holding area from B999. Ensure watering point for livestock provided. Tie in existing drainage system and install new as required.	

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#### Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	10	Field area 5.92ha. LCA Class 3.1. Loss of 2.29ha (39% of field area) to B999 realignment Overbridge and main alignment. Field severed. Disruption to and loss of field boundary fencing, access and drainage system.				Provide new boundary fence with recessed access with livestock holding area from B999 for northern portion. Provide access to southern portion via SUDS Pond access. For both portions, ensure watering point for livestock provided. Tie in existing drainage system and install new as required.	
	11	Field area 4.93ha. LCA Class 3.2. Loss of 3.34ha (68% of field area) to main alignment, associated earthworks and SUDS ponds. Disruption to and loss of field boundary fencing, access and drainage system.				Provide access using SUDS pond access road. Reinstatement boundary fencing to provide secure field boundary. Tie in existing drainage system and install new as required.	
	12	Field area 1.53ha. LCA Class 3.1. Loss of 1.27ha (83% of field area) to main alignment and associated earthworks. Disruption to and loss of field boundary fencing, access and drainage system.				Merge remaining area to north of main alignment with field to north. Ensure drainage tied in and installed as required.	
	13	Field area 5.32ha. LCA Class 3.2. Loss of 0.06ha (1% of field area) to realignment of B999. Disruption to field boundary drystone wall/fence.				Ensure secure field boundary with drystone wall/fence provided with recessed access from B999.	
	14	Field area 3.84ha. LCA Class 3.2. Loss of 0.16ha (4% of field area) to realignment of B999. Disruption to field boundary drystone wall/fence.				Ensure secure field boundary with drystone wall/fence provided with recessed access from B999.	
		Loss of 20.43ha (16% of farm area) in 14 fields to main alignment, associated earthworks, Newtonhill Overbridge, B999 Overbridge and SUDS ponds. 6.45ha LCA Class 3.1 affected and 13.98ha LCA Class 3.2. Some fields severed by main alignment and fields severed from steading. Severance estimated at 35ha (27% of farm area). Disruption to and loss of field boundary drystone walls, access and drainage.	M	H	Mod/Sub	Reinstatement field boundary drystone walls, provide new field access with holding areas as required. Tie in existing drainage system and provide new as required. Ensure access to livestock watering point. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod/Sub
Hillhead of Muirton	1	Field area 8.25ha. LCA Class 4.1. Loss of 0.12ha (1% of field area) to main alignment and associated earthworks. Disruption to field boundary drystone wall/fencing.				Reinstatement field boundary drystone wall and fence.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
Land Ref 415	2	Field area 5.77ha. LCA Class 3.2. Loss of 1.02ha (18% of field area) to main alignment and associated earthworks. Field severed with loss of access. Disruption to field drainage system and boundary drystone wall/fencing.				Access to severed area cannot be provided. Make area available for use by Land Ref 10 (merging with field 10/1). Reinstate field boundary drystone wall and fencing as required. Ensure drainage tied in and installed as required.	
		Loss of 1.14ha (8% of farm area) in 2 fields to main alignment, associated earthworks. 1.02ha LCA Class 3.2 affected and 0.12ha LCA Class 4.1. One field severed by main alignment. (0.10ha equating to 1% of farm area). Disruption to and loss of field boundary drystone walls and drainage.	L	M	Sli/ Mod	Reinstate field boundary drystone walls and fencing. Tie in existing drainage system and provide new as required. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sli/Mod
Middleton Farm Land Ref 10	1	Field area 12.46ha. LCA Class 3.1. Loss of 0.60ha (5% of field area) to main alignment and associated earthworks. Disruption to and loss of access, field boundary fencing and drainage system.				Access provided to field via extension to SUDS pond access along southern edge of main alignment. Reinstate field boundary fencing and tie in drainage system, providing new as required.	
	2	Field area 6.91ha. LCA Class 3.1. Loss of 2.28ha (33% of field area) to main alignment and associated earthworks. Field severed. Disruption to and loss of access, field boundary fencing and drainage system.				Access provided to area to south of main alignment via extension to SUDS pond access along southern edge of main alignment. Access to area to north of main alignment provided by Middleton Steadings access. For both remaining areas, provide new boundary fencing and tie in existing drainage system, installing new as required.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	3	Field area 7.79ha. LCA Class 3.2. Loss of 2.56ha (33% of field area) to main alignment and A90 North Junction. Field severed. Disruption to and loss of access, field boundary fencing and drainage system.				Access provided to area to south of main alignment via extension of SUDS pond access track along southern edge of main alignment and through field 10/02.  Access to area to north of main alignment provided by Middleton Steadings access.  For both remaining areas, provide new boundary fencing and tie in existing drainage system, installing new as required.  Regrading allows potential return to agriculture of estimated 0.69ha reducing land lost to 1.87ha (24% of field area).	
		Loss of 5.45ha (11% of farm area) to main alignment and associated earthworks. 0.60ha LCA Class 3.1 affected and 4.85ha LCA Class 3.2. Fields severed by main alignment and access to severed area severely compromised. Severance estimated 21ha equating to 41% of farm area. Disruption to and loss of field boundary drystone walls and drainage.	M	H	Mod/Sub	Access provided to land to south of main alignment through extension of SUDS pond access track along south of main alignment.  Re-grading allows potential return to agriculture of 0.69ha reducing total land area lost to 4.76ha (9% of farm area).  For all areas, reinstate field boundary drystone walls and fencing. Tie in existing drainage system and provide new as required. Ensure access to livestock watering point.  LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod
Middlefield Land Ref 416	1	Field area 3.35ha. LCA Class 3.2. Loss of 1.71ha (51% of field area) to main alignment, associated earthworks and Middlefield Steadings access. Disruption to and loss of field boundary fencing and drystone walls, access and drainage system.				Reinstate field boundary drystone walls. Provide new field access from Middleton Steadings access. Tie in existing drainage and install new as required. Ensure watering point for livestock provided.	

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Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	2	Field area 2.01ha. LCA Class 3.1. Loss of whole field to main alignment, associated earthworks and A90 North Junction.				Potential to return to agriculture following re-grading. Estimated area 0.94ha. Access not provided apart from through Land Ref 10 (fields 10/1, 10/2 and 10/3). Potential to be used in conjunction with field 10/3.	
	3	Field area 2.06ha. LCA Class 3.1. Loss of 1.92ha (93% of field area) to A90 North Junction and Middleton Steadings Access. Disruption to and loss of field boundary fencing, access and drainage system.				Provide boundary drystone walls and field access from Middleton Steadings Access. Tie in existing drainage and install new as required. Ensure watering point for livestock provided.	
	4	Filed area 4.89ha. LCA Class 3.1. Loss of 3.58ha (73% of field area) to A90 North Junction, C1C Belhalvie – Wateridgemuir Road realignment. Disruption to and loss of field boundary fencing, access and drainage system.				Provide boundary drystone walls and field access from C1C Belhalvie – Wateridgemuir Road realignment. Tie in existing drainage and install new as required. Ensure watering point for livestock provided.	
	5	Field area 3.92ha. LCA Class 3.1. Loss of 0.32ha (6% of field area) to C1C Belhalvie – Wateridgemuir Road realignment. Disruption to and loss of field boundary fencing, access and drainage system				Provide boundary drystone walls and field access from C1C Belhalvie – Wateridgemuir Road realignment. Tie in existing drainage and install new as required. Ensure watering point for livestock provided.	
		Loss of 9.54ha (39% of farm area) in 5 fields to main alignment and associated earthworks. 7.83ha LCA Class 3.1 affected and 1.71ha LCA Class 3.2. Severance estimate as 1ha equating to 3% of farm area. Disruption to and loss of field boundary drystone walls and drainage.	M	H	Sub	0.94ha returned to agriculture in field 2, therefore net loss would be 8.60ha (35% of farm area). Reinstatement field boundary drystone walls and fencing providing field access from Middleton Steadings Access and C1C Belhalvie – Wateridgemuir Road realignment. Tie in existing drainage system and provide new as required. Ensure access to livestock watering point. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sub
Waste Recycling Group	1	Land area 62.07ha. LCA Class 6.3. Loss of 2.46ha (4% of business area) to A90 North Junction and Wester Hatton Farm access. Disruption to field boundary.				Reinstatement field boundary fencing.	

\* Sensitivity

\*\* Magnitude

\*\*\* Significance

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**Part B: Northern Leg**

**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
Land Ref 447		Loss of 2.46ha LCA Class 6.3 (4% of farm area) to A90 North Junction and Wester Hatton Farm access. Disruption to and loss of field boundary fencing.	L	L	Neg/Sli	Reinstate field boundary fencing. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Neg/Sli
Tawse Land Ref 417	1	Field area 10.09ha. LCA Class 3.2. Loss of 1.03ha (10% of field area) to access for Wester Hatton Cottages. Disruption to and loss of field boundary features and drainage.				Reinstate field boundary fencing and tie in existing drainage system and install new as required.	
	2	Field area 8.89ha. LCA Class 3.2. Loss of 1.80ha (20% of field area) to access for Wester Hatton Cottages and A90 North Junction. Disruption to and loss of access, field boundary drystone walls and fencing and drainage system.				Provide new boundary fencing and field access from Wester Hatton Cottages access road. Tie in existing drainage and provide new as required.	
	3	Field area 4.60ha. LCA Class 3.2. Loss of whole field to A90 North junction, SUDS ponds and Wester Hatton Cottages access.				No mitigation possible other than financial compensation.	
	4	Field area 5.24ha. LC CLASS 3.2. loss of 1.04ha to Blackdog Estate Link. Disruption to and loss of access, field boundary features and drainage.				Provide recessed field access from Blackdog Estate Link. Reinstate field boundary features. Tie in any existing drainage and install new as required.	
	5	Field area 4.92ha. Woodland. Loss of 1.35ha (27% of woodland area). Disruption to field boundary.				Felling of working area but no windthrow mitigation required. Restore recessed access and boundary features.	
	6	Field area 2.41ha. LCA Class 3.2. Loss of 1.34ha. Disruption to and loss of access, boundary features and drainage.				Provide recesses field access from Blackdog Estate Link. Reinstate field boundary features. Tie in any existing drainage and install new as required.	
			Loss of 11.15ha (17% of farm area) of which 4.60ha LCA Class 3.1 and 10.55 LCA Class 3.2 to A90 North Junction and Blackdog Estate Link access. Disruption to and loss of field boundary fencing, access and drainage.	M	H	Mod/ Sub	Reinstate field boundary fencing and provide field access from Blackdog Estate Link access. Tie in existing drainage and provide new as required. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU19, LU20, LU21, LU22, LU23.

\* Sensitivity

\*\* Magnitude

\*\*\* Significance

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
Blackdog Croft Land Ref 37	1	Farm area 2.54ha. LCA Class 3.2. Loss of 0.92ha (32% of farm area) to Blackdog Access Road. Disruption to field boundary fencing, access and drainage.				Reinstate field boundary fencing with field access provided from Blackdog Access Road. Tie in existing drainage and provide new as required.	
		Loss of 0.92ha LCA Class 3.2 (36% of farm area) to Blackdog Access Road. Severance estimated 2ha equating to 63%. Disruption to and loss of field boundary fencing, access and drainage.	L	H	Mod	Reinstate field boundary fencing and provide field access from Blackdog Access Road. Tie in existing drainage and provide new as required. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod
7 Acres at Strathathie Land Ref 18	1	Farm area 2.80ha. LCA Class 6.3. Loss of 1.55ha (55% of farm area) to Blackdog Access Road. Disruption to field boundary fencing, access and drainage.				Reinstate field boundary fencing with field access provided from Blackdog Access Road. Tie in existing drainage and provide new as required.	
		Loss of 1.55ha LCA Class 6.3 (55% of farm area) to Blackdog Access Road. Disruption to and loss of field boundary fencing, access and drainage.	L	H	Mod	Reinstate field boundary fencing and provide field access from Blackdog Access Road. Tie in existing drainage and provide new as required. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod
The Gables Land Ref 445	1	Field area 4.56ha. LCA Class 3 <sub>2</sub> . Loss of 1.40ha (31% of field area) to Blackdog Estate Link and Hatton Cottages access. Area severed. Disruption to and loss of access, field boundaries and drainage.				Provide recessed field access from Blackdog Estate Link and Hatton Cottages access. Reinstate field boundary features and tie in any existing drainage and install new as required. Ensure livestock watering points for all areas.	
		Loss of 1.40ha (26% of farm area). Disruption to and loss of access, field boundaries and drainage. Severance of estimated 1ha equating to 17% farm area.	L	H	Mod	Provide recessed field access, reinstate field boundary features, restore drainage and ensure water for livestock. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Mod
Tarbothill Land Ref 17	1	Field area 2.75ha. LCA Class 3.2. Loss of 0.81ha (29% of field area) to Blackdog Access Road and Tarbothill Landfill access. Disruption to field boundary fencing, access and drainage.				Reinstate field boundary fencing with field access provided from Blackdog Access Road. Tie in existing drainage and provide new as required.	

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**Appendix A7.5 - Pre and Post Mitigation Impacts for all Affected Land Interests**

Land Interest	Field Reference	Description of potential impact	Sensitivity*	Magnitude**	Significance***	Description of proposed mitigation measures	Significance of residual impact***
	2	Field area 10.14ha. LCA Class 3.2. Loss of 0.08ha (1% of field area) to Blackdog Access road. Disruption to field boundary.				Reinstate field boundary fencing.	
	3	Field area 10.14ha. LCA Class 3 <sub>2</sub> . Loss of 0.08ha (1% of field area)					
		Loss of 1.34ha LCA Class 3.2 (1% of farm area) to Blackdog Access Road. Severance of 1ha equating to 1% of farm area. Disruption to and loss of field boundary fencing, access and drainage.	H	Neg	Sli	Reinstate field boundary fencing and provide field access from Blackdog Access Road. Tie in existing drainage and provide new as required. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Sli
Land at Blackbog Land Ref 284	1	Field area 2.57ha. LCA Class 3.2. Loss of 0.06ha (2% of field area) to new access track. Disruption to access and field boundary.				Reinstate field boundary and access from access track.	
		Loss of 0.06ha LCA Class 3.2 land and disruption to field access and boundary feature.	L	L	Neg/Sli	Reinstate field access and boundary. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Neg Sli
Harehill Land Ref 38	1	Field area 2.85ha. LCA Class 3.2. Loss of 0.34ha (12% of field area) to new access track. Disruption to field boundary.				Reinstate field boundary.	
	2	Field area 2.49ha. LCA Class 3.2. Loss of 0.33ha (13% of field area) to new access track. Disruption to field boundary.				Reinstate field boundary.	
	3	Field area 2.78a. LCA Class 3.2. Loss of 0.23ha (8% of field area) to new access track. Disruption to field boundary.				Reinstate field boundary.	
		Loss of 0.90ha LCA Class 3.2 (4% if farm area). Disruption to field boundary features.	L	L	Neg/Sli	Reinstate field boundary features. LU1, LU2, LU3, LU4, LU5, LU6, LU7, LU8, LU9, LU10, LU11, LU12, LU13, LU14, LU15, LU16, LU17, LU18, LU23.	Neg/Sli

\* Sensitivity

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