



EAST PARK ENERGY

East Park Energy

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Environmental Statement

Volume 2 – Technical Appendices

Appendix 11-3: Construction Dust Assessment

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Environmental Statement Volume 2 – Technical Appendices

Appendix 11-3: Construction Dust Assessment

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Table 1: Dust Magnitude: per activity											
Works Package	Description	Areas	Summary of Works	Dust Magnitude ¹							
				Demolition		Earthworks		Construction		Trackout	
				Class	Reason	Class	Reason	Class	Reason	Class	Reason
Works No 1	Ground mounted solar photovoltaic generating station	parts of Sites A, B, C & D	solar photovoltaic panel modules fixed to ground mounted structures; limited soil stripping required; mounting posts to be driven using push-pull technique to max. of 2m bgl; placed on concrete mounting structures	n/a	no demolition involved	large	total site area >110,000m ² , each area >110,000m ²	medium	total site area >75,000m ³ but majority of infrastructure pre-fabricated off-site	assessed under Works No 9	
Works No 2	Battery Energy Storage System (BESS)	part of Site C (or D)	construction of BESS and associated works; advance soil stripping required; foundations of units to max. of 0.4m bgl; construction to comprise containers or glass-reinforced plastic with concrete surfacing to area	n/a	no demolition involved	medium	total site area 18,000-110,000m ²	medium	total build volume 12,000-75,000m ³ ; majority of infrastructure pre-fabricated off-site	assessed under Works No 9	
Works No 3	on-site substation (East Park Substation)	part of Site C (or D)	construction of on-site substation and associated works; advance soil stripping required; surfacing of compacted stone; access roads to be of concrete or asphalt	n/a	no demolition involved	small	total site area <18,000m ²	small	total build volume <12,000m ³	assessed under Works No 9	
Works No 4	400kV cable connection to East Socon Substation	parts of Site C, D and grid connection to East Socon Substation	cables to be trenched in open cut trench with horizontal drilling or horizontal vertical drilling at crossing points; trench up to 1.5m wide and 2m deep; total length of 7.8km or 6km; jointing chambers to be not more than 600m apart; backfilling with concrete and soils	n/a	no demolition involved	small	assume work in lengths up to 0.6km; <18,000m ² total site area per 'work front'	small	total build volume <12,000m ³	assessed under Works No 9	
Works No 5	works within Eaton Socon Substation	East Socon Substation	minor works within existing substation	n/a	no demolition involved	small		small		assessed under Works No 9	
Works No 6	internal cabling and ancillary infrastructure	parts of Sites A, B, C & D	all internal cabling and ancillary infrastructure; to be trenched in open cut trench with horizontal drilling or horizontal vertical drilling at crossing points; trench to be up to 1.5m deep and 15m wide where parallel cabling; includes construction of permanent access tracks using permeable compacted stone and temporary access tracks using heavy duty construction matting; construction of Operations and Maintenance Area; construction of East Park BESS and Substation Retention Basin	n/a	no demolition involved	large	total site area >110,000m ² , each area >110,000m ²	large	includes placement of compacted stone and construction of Opsd area and backfilling of trenches	assessed under Works No 9	
Works No 7	works for temporary construction and decommissioning compounds and laydown areas	parts of Sites A, B, C & D	10 construction compounds, provided with heavy duty construction matting; to provide temporary areas for welfare facilities, laydown areas, car parking and storage	n/a	no demolition involved	small	within areas stripped in advance; no earthworks required	small	no construction required; welfare facilities to be temporary	assessed under Works No 9	
Works No 8	works to create, enhance and maintain Green Infrastructure	parts of Sites A, B, C & D	retention of existing green infrastructure; creation of new green infrastructure including planting	n/a	no demolition involved	large	total site area >110,000m ² , each area >110,000m ²	n/a	no construction required	assessed under Works No 9	
Works No 9	works to facilitate access	parts of Site B, C & D and grid connection to East Socon Substation	creation and maintenance of permanent access to Scheme to include creation of access from public highway and passing spaces	n/a	no demolition involved	small	locally small areas	small	limited to tarmac, concrete or compacted stone surfacing	medium	peak of 43 outward bound HGV movements per day from Site D access

Table 2: Dust Magnitude: per construction phasing

Phase	Description	Areas	Summary of Works	Works Package	Dust Magnitude							
					Demolition		Earthworks		Construction		Trackout	
					Class	Reason	Class	Reason	Class	Reason	Class	Reason
1	Enabling Works	parts of Sites A, B, C & D	main construction compound in Site D; main access from B645 into Site D; access tracks and temporary access tracks across sites A, B, C and D; crossing points over ditches and utilities; satellite compounds in Sites A, B & C	Works 7 & 9	n/a	no demolition involved	large	total site area >110,000m ²	small	mostly surface level construction works	assessed cumulatively	
2	Construction of East Park Substation	part of Site C (or D)	internal access roads; construction of substation and ancillary works	Works 3	n/a	no demolition involved	small	total site area <18,000m ²	small	total build volume <12,000m ³	assessed cumulatively	
3	Construction of 400kV Grid Connection	parts of Site C, D, East Socon Substation and grid connection	temporary access road; trench excavation & Joining Chambers; laying of cables & backfilling; works in East Eacon Substation; removal of temporary access road and reinstatement of land	Works 4 & 5	n/a	no demolition involved	medium	assume work in lengths up 0.6km; <18,000m ² total site area per 'work front' but with additional ancillary works	small	mostly surface level construction works	assessed cumulatively	
4	Construction of East Park BESS	part of Site C (or D)	internal access roads; foundations; trenches, cable installtion; installation of BESS	Works 2	n/a	no demolition involved	medium	total site area 18,000-110,000m ²	medium	total build volume 12,000-75,000m ³ ; majority of infrastructure pre-fabricated off-site	assessed cumulatively	
5	Construction of East Park Site A	Site A	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	n/a	no demolition involved	large	total site area >110,000m ²	medium	total site area >75,000m ³ but majority of infrastructure pre-fabricated off-site	assessed cumulatively	
6	Construction of East Park Site B	Site B	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	n/a	no demolition involved	large	total site area >110,000m ²	medium	total site area >75,000m ³ but majority of infrastructure pre-fabricated off-site	assessed cumulatively	
7	Construction of East Park Site C	Site C	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	n/a	no demolition involved	large	total site area >110,000m ²	medium	total site area >75,000m ³ but majority of infrastructure pre-fabricated off-site	assessed cumulatively	
8	Construction of East Park Site D	Site D	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	n/a	no demolition involved	large	total site area >110,000m ²	medium	total site area >75,000m ³ but majority of infrastructure pre-fabricated off-site	assessed cumulatively	
Cumualtative					n/a	no demolition involved	large	total site area >110,000m ²	medium	large surface area but mostly at surface level using pre-fabricated structures	medium	peak of 43 outward bound HGV movements per working day from Site D access; peak of 38 2-way movements between Site C and Site B

Table 3a: Area Sensitivity - From Order Limits

Area	Sensitivity					
	Dust Soiling	Reason	Human Health	Reason	Ecological	Reason
Site A	medium	1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	n/a	no ecological sites within 50m
Site B	medium	1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	1 CWS (Kangaroo Meadow) within 20m
Site C	low	1-10 highly sensitive receptors within 50m; 1-10 highly sensitive receptors within 100m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 50m; 1-10 highly sensitive receptors within 100m	n/a	no ecological sites within 50m
Site D	low	0 highly sensitive receptors within 50m; 1-10 highly sensitive receptors within 100m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 50m; 1-10 highly sensitive receptors within 100m	n/a	no ecological sites within 50m
Main Site Access (Site D)	n/a	0 high sensitive receptors within 250m	n/a		n/a	no ecological sites within 50m
Additional Access - Site C	medium	1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress	low	local PM10 concentrations <24 µg/m3;1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress	n/a	no ecological sites within 50m of roadside up to 250m of egress
Additional Access - Site B	n/a	0 high sensitive receptors within 50m of roadside for up to 250m from egress	n/a		n/a	no ecological sites within 50m
Additional Access - Site B / A (short stretch on B6)	n/a	0 high sensitive receptors within 50m of egress	n/a		n/a	no ecological sites within 50m
Grid Connection Corridor - Site B to Site C	low	0 highly sensitive receptors within 50m; 1-10 highly sensitive receptors within 100m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 50m; 1-10 highly sensitive receptors within 100m	n/a	no ecological sites within 50m
Grid Connection Corridor - Site C to Site D	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Grid Connection to East Socon Substation	low	0 highly sensitive receptors within 100m; 10-100 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 10-100 highly sensitive receptors within 250m	low	1 CWS (Huntingtingdon Wood) within 50m
East Socon Substation	low	0 highly sensitive receptors within 50m; 10-100 highly sensitive receptors within 100m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 50m; 10-100 highly sensitive receptors within 100m	n/a	no ecological sites within 50m
Cumulative (Earthworks and Construction)	medium	1-10 highly sensitive receptors within 20m, 10-100 highly sensitive receptors within 50m; 10-100 highly sensitive receptors withhn 100m; >100 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 1-10 highly sensitive receptors within 20m, 10-100 highly sensitive receptors within 50m; 10-100 highly sensitive receptors withhn 100m; >100 highly sensitive receptors within 250m	low	1 local designated ecological site within 20m and 2 within 50m
Cumulative (Trackout)	medium	1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress (Site C)	low	local PM10 concentrations <24 µg/m3; 1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress (Site C)	n/a	no ecological sites within 50m of roadside up to 250m of egress

Notes: local PM10 concentrations <24 µg/m³

Table 4: Dust Assessment: per construction phasing

Phase	Description	Areas	Summary of Works	Works Package	Earthworks			Construction			Trackout		
					Dust Soiling	Human Health	Ecological	Dust Soiling	Human Health	Ecological	Dust Soiling	Human Health	Ecological
1	Enabling Works	parts of Sites A, B, C & D	main construction compound in Site D; main access from B645 into Site D; access tracks and temporary access tracks across sites A, B, C and D; crossing points over ditches and utilities; satellite compounds in Sites A, B & C	Works 7 & 9	medium	low	low	low	negligible	negligible	assessed as a whole		
2	Construction of East Park Substation	part of Site C (or D)	internal access roads; construction of substation and ancillary works	Works 3	negligible	negligible	n/a	negligible	negligible	n/a	assessed as a whole		
3	Construction of 400kV Grid Connection	parts of Site C, D, East Socon Substatoin and grid connection	temporary access road; trench excavation & Joining Chambers; laying of cables & backfilling; works in East Eacopn Substation; removal of temporary access road and reinstatement of land	Works 4 & 5	low	low	low	negligible	negligible	negligible	assessed as a whole		
4	Construction of East Park BESS	part of Site C (or D)	internal access roads; foundations; trenches, cable installtion; installation of BESS	Works 2	low	low	n/a	negligible	low	n/a	assessed as a whole		
5	Construction of East Park Site A	Site A	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	medium	low	n/a	medium	low	n/a	assessed as a whole		
6	Construction of East Park Site B	Site B	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	medium	low	low	medium	low	low	assessed as a whole		
7	Construction of East Park Site C	Site C	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	low	low	n/a	low	low	n/a	assessed as a whole		
8	Construction of East Park Site D	Site D	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	low	low	n/a	low	low	n/a	assessed as a whole		
Cumualtative (based on all activities occurring across all areas of the Site)					medium	low	low	medium	low	low	medium	low	low

Table 3b: Area Sensitivity - From Constructions Areas

Area	Sensitivity					
	Dust Soiling	Reason	Human Health	Reason	Ecological	Reason
Site A	low	0 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	n/a	no ecological sites within 50m
Site B	medium	1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	1 CWS (Kangaroo Meadow) within 20m
Site C	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Site D	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Main Site Access (Site D)	n/a	0 high sensitive receptors within 250m	n/a	0 high sensitive receptors within 250m	n/a	no ecological sites within 50m
Additional Access - Site C	medium	1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress	low	local PM10 concentrations <24 µg/m3;1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress	n/a	no ecological sites within 50m of roadside up to 250m of egress
Additional Access - Site B	n/a	0 high sensitive receptors within 50m of roadside for up to 250m from egress	n/a	0 high sensitive receptors within 50m of roadside for up to 250m from egress	n/a	no ecological sites within 50m
Additional Access - Site B / A (short stretch on B)	n/a	0 high sensitive receptors within 50m of egress	n/a	0 high sensitive receptors within 50m of egress	n/a	no ecological sites within 50m
Grid Connection Corridor - Site B to Site C	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Grid Connection Corridor - Site C to Site D	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Grid Connection to East Socon Substation	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	1 CWS (Huntingtingdon Wood) within 50m
East Socon Substation	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Cumulative (Earthworks and Construction)	medium	1-10 high sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m; >100 highly sensitive receptors withn 100m	low	1 local designated ecological site within 20m and 2 within 50m
Cumulative (Trackout)	medium	1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress (Site C)	low	local PM10 concentrations <24 µg/m3;1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress (Site C)	n/a	no ecological sites within 50m of roadside up to 250m of egress

Notes: local PM10 concentrations <24 µg/m³

Table 4b: Dust Assessment: from construction areas; per construction phasing

Phase	Description	Areas	Summary of Works	Works Package	Earthworks			Construction			Trackout		
					Dust Soiling	Human Health	Ecological	Dust Soiling	Human Health	Ecological	Dust Soiling	Human Health	Ecological
1	Enabling Works	parts of Sites A, B, C & D	main construction compound in Site D; main access from B645 into Site D; access tracks and temporary access tracks across sites A, B, C and D; crossing points over ditches and utilities; satellite compounds in Sites A, B & C	Works 7 & 9	medium	low	low	low	negligible	negligible	assessed as a whole		
2	Construction of East Park Substation	part of Site C (or D)	internal access roads; construction of substation and ancillary works	Works 3	negligible	negligible	n/a	negligible	negligible	n/a	assessed as a whole		
3	Construction of 400kV Grid Connection	parts of Site C, D, East Socon Substatoin and grid connection	temporary access road; trench excavation & Joining Chambers; laying of cables & backfilling; works in East Eacopn Substation; removal of temporary access road and reinstatement of land	Works 4 & 5	low	low	low	negligible	negligible	negligible	assessed as a whole		
4	Construction of East Park BESS	part of Site C (or D)	internal access roads; foundations; trenches, cable installation; installation of BESS	Works 2	low	low	n/a	negligible	low	n/a	assessed as a whole		
5	Construction of East Park Site A	Site A	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	low	low	n/a	low	low	n/a	assessed as a whole		
6	Construction of East Park Site B	Site B	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	medium	low	low	medium	low	low	assessed as a whole		
7	Construction of East Park Site C	Site C	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	low	low	n/a	low	low	n/a	assessed as a whole		
8	Construction of East Park Site D	Site D	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	low	low	n/a	low	low	n/a	assessed as a whole		
Cumualtative (based on all activities occurring across all areas of the Site)					medium	low	low	medium	low	low	medium	low	low

Dust Magnitude: per site area											
Phase	Description	Areas	Summary of Likely Works	Dust Magnitude Demolition		Earthworks		Construction		Trackout	
				Class	Reason	Class	Reason	Class	Reason	Class	Reason
1	Enabling Works	parts of Sites A, B, C & D	provision of main construction compound in Site D; main access from B645 into Site D; access tracks and temporary access tracks across sites A, B, C and D; crossing points over ditches and utilities; satellite compounds in Sites A, B & C	n/a	no demolition involved	large	total site area >110,000m ²	small	mostly surface level construction works for provision of construction compounds	assessed cumulatively	
2	Decommissioning of East Park Substation	part of Site C (or D)	internal access roads; decommissioning of substation and ancillary works	small	total build volume <12,000m ³ ; construction material with low potential for dust release;	small	total site area <18,000m ²	n/a	no construction required	assessed cumulatively	
3	Decommissioning of 400kV Grid Connection	parts of Site C, D, East Socon Substation and grid connection	temporary access road; possible removal of cables in trenches and backfilling; removal of temporary access road and reinstatement of land	small	mostly surface level decommissioning works	medium	assume work in lengths up to 0.6km; <18,000m ² total site area per 'work front' but with additional ancillary works	n/a	no construction required	assessed cumulatively	
4	Decommissioning of East Park BESS	part of Site C (or D)	internal access roads; possible removal of cables in trenches & backfilling; removal of BESS	small	total build volume 12,000-75,000m ³ ; but mostly surface level decommissioning works with low potential for dust release	medium	total site area 18,000-110,000m ²	n/a	no construction required	assessed cumulatively	
5	Decommissioning of East Park Site A	Site A	removal of surface mounted Solar PV Array with posts of max of 2m bgl; removal of cabling within Sites and to East Park Substation	small	total build volume 12,000-75,000m ³ ; but mostly surface level decommissioning works with low potential for dust release	medium	total site area >110,000m ² but earthworks not expected to be extensive	n/a	no construction required	assessed cumulatively	
6	Decommissioning of East Park Site B	Site B	removal of surface mounted Solar PV Array with posts of max of 2m bgl; removal of cabling within Sites and to East Park Substation	small	total build volume 12,000-75,000m ³ ; but mostly surface level decommissioning works with low potential for dust release	medium	total site area >110,000m ² but earthworks not expected to be extensive	n/a	no construction required	assessed cumulatively	
7	Decommissioning of East Park Site C	Site C	removal of surface mounted Solar PV Array with posts of max of 2m bgl; removal of cabling within Sites and to East Park Substation	small	total build volume 12,000-75,000m ³ ; but mostly surface level decommissioning works with low potential for dust release	medium	total site area >110,000m ² but earthworks not expected to be extensive	n/a	no construction required	assessed cumulatively	
8	Decommissioning of East Park Site D	Site D	removal of surface mounted Solar PV Array with posts of max of 2m bgl; removal of cabling within Sites and to East Park Substation	small	total build volume 12,000-75,000m ³ ; but mostly surface level decommissioning works with low potential for dust release	medium	total site area >110,000m ² but earthworks not expected to be extensive	n/a	no construction required	assessed cumulatively	
Cumulative				small	large surface area but mostly at surface level with materials with low potential for dust release	medium	total site area >110,000m ² but earthworks not expected to be extensive	small	mostly surface level construction works for provision of construction compounds	small	HGV movements expected to be less than during construction phase

Table 2a: Area Sensitivity - From Constructions Areas

Area	Sensitivity		Human Health	Reason	Ecological	Reason
	Dust Soiling	Reason				
Site A	low	0 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	n/a	no ecological sites within 50m
Site B	medium	1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	1 CWS (Kangaroo Meadow) within 20m
Site C	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Site D	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Main Site Access (Site D)	n/a	0 high sensitive receptors within 250m	n/a	0 high sensitive receptors within 250m	n/a	no ecological sites within 50m
Additional Access - Site C	medium	1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress	low	local PM10 concentrations <24 µg/m3;1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress	n/a	no ecological sites within 50m of roadside up to 250m of egress
Additional Access - Site B	n/a	0 high sensitive receptors within 50m of roadside for up to 250m from egress	n/a	0 high sensitive receptors within 50m of roadside for up to 250m from egress	n/a	no ecological sites within 50m
Additional Access - Site B / A (short stretch on B66)	n/a	0 high sensitive receptors within 50m of egress	n/a	0 high sensitive receptors within 50m of egress	n/a	no ecological sites within 50m
Grid Connection Corridor - Site B to Site C	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Grid Connection Corridor - Site C to Site D	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Grid Connection to East Socon Substation	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	1 CWS (Huntingtingdon Wood) within 50m
East Socon Substation	low	0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	low	local PM10 concentrations <24 µg/m3; 0 highly sensitive receptors within 100m; 1-10 highly sensitive receptors within 250m	n/a	no ecological sites within 50m
Cumulative (Earthworks and Construction)	medium	1-10 high sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m	low	local PM10 concentrations <24 µg/m3; 1-10 highly sensitive receptors within 20m, 1-10 highly sensitive receptors within 50m; >100 highly sensitive receptors withihn 100m	low	1 local designated ecological site within 20m and 2 within 50m
Cumulative (Trackout)	medium	1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress (Site C)	low	local PM10 concentrations <24 µg/m3;1 high sensitive receptor within 20m of roadside for 250m from egress; 3 within 50m for 250m from egress (Site C)	n/a	no ecological sites within 50m of roadside up to 250m of egress

Notes: local PM10 concentrations <24 µg/m³

Table 3a: Dust Assessment: from construction areas; per construction phasing

Phase	Description	Areas	Summary of Works	Works Package	Demolition	Human Health	Ecological	Earthworks	Human Health	Ecological	Construction	Human Health	Ecological	Trackout		
					Dust Soiling			Dust Soiling			Dust Soiling			Dust Soiling	Human He	Ecological
1	Enabling Works	parts of Sites A, B, C & D	main construction compound in Site D; main access from B645 into Site D; access tracks and temporary access tracks across sites A, B, C and D; crossing points over ditches and utilities; satellite compounds in Sites A, B & C	Works 7 & 9	n/a	n/a	n/a	medium	low	low	low	negligible	negligible	assessed as a whole		
2	Construction of East Park Substation	part of Site C (or D)	internal access roads; construction of substantion and ancillary works	Works 3	low	negligible	n/a	low	negligible	n/a	n/a	n/a	n/a	assessed as a whole		
3	Construction of 400kV Grid Connection	parts of Site C, D, East Socon Substatoin and grid connection	temporary access road; trench excavation & Joining Chambers; laying of cables & backfilling; works in East Eacopn Substation; removal of temporary access road and reinstatement of land	Works 4 & 5	negligible	negligible	negligible	low	low	low	n/a	n/a	n/a	assessed as a whole		
4	Construction of East Park BESS	part of Site C (or D)	internal access roads; foundations; trenches, cable installtion; installation of BESS	Works 2	negligible	negligible	n/a	low	low	n/a	n/a	n/a	n/a	assessed as a whole		
5	Construction of East Park Site A	Site A	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	negligible	negligible	n/a	low	low	n/a	n/a	n/a	n/a	assessed as a whole		
6	Construction of East Park Site B	Site B	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	low	negligible	negligible	medium	low	low	n/a	n/a	n/a	assessed as a whole		
7	Construction of East Park Site C	Site C	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	negligible	negligible	n/a	low	low	n/a	n/a	n/a	n/a	assessed as a whole		
8	Construction of East Park Site D	Site D	trenches; surface water draginage; foundations; Solar PV Array; cabling within Sites and to East Park Substation; soft landscaping	Works 1, 6 & 8	negligible	negligible	n/a	low	low	n/a	n/a	n/a	n/a	assessed as a whole		
Cumualtative (based on all activities occurring across all areas of the Site)					low	negligible	negligible	medium	low	low	low	negligible	negligible	low	low	low