

Southampton to London Pipeline Project

Deadline 7

Site Specific Plan - QEP (tracked change)

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Contents

1	Introduction	1
2	Construction Programme	2
3	Description of Works	3
3.1	Access	3
3.2	Security.....	3
3.3	Vegetation Removal	4
3.4	Enabling Works	5
3.5	Area of Park to be Used for the Works.....	6
3.6	Open Cut	7
3.7	TC018 Installation (HDD Receiving Area and Stringing)	8
3.8	TC019 Installation (Auger Bore Receiving Area for A325 Crossing)	9
3.9	Reinstatement.....	11
	Appendix A – Area Plans	13
	Appendix B – Construction and Reinstatement Plans	14
	Appendix C – Trees to be Removed	15
	Tree Survey - Schedule Key.....	15
	Tree Survey - Schedule of Trees to be removed in Queen Elizabeth Park	16
	Appendix D Tree Survey Schedule and Plans	17



1 Introduction

- 1.1.1 This plan provides further detail on the potential impacts, construction techniques and mitigation measures in this area as a standalone document that is certified as part of the Development Consent Order (DCO). Esso is required to comply with and implement the Site Specific Plan under Requirement 17 of the granted DCO.
- 1.1.2 The plan covers the following elements:
- construction programme;
 - access;
 - security;
 - vegetation removal;
 - enabling works;
 - Open Cut installation;
 - trenchless crossing under the Prospect Road (TC018);
 - trenchless crossing under the A325 (TC019); and
 - reinstatement.
- 1.1.3 Esso and its supply chain of contractor(s) will adopt the control measures set out in this Site Specific Plan when undertaking the installation of the pipeline.



2 Construction Programme

- 2.1.1 Assessment of the preferred construction methodology indicates that works within the park will take up to 12 months. This may not be 12 months of continuous activity, as the works may be staged to facilitate safe working by undertaking the Open Cut work at a different time to the trenchless works.
- 2.1.2 There is a two-year working window for the construction works, as the programme will need to take account of any seasonality such as ecological constraints and optimum replanting periods. Notwithstanding the above constraints, the detailed scheduling of the works will look to rationalise and work simultaneously where there is the ability to do so, to reduce disturbance to the park.
- 2.1.3 Below is a summary of works and estimated durations, but this is subject to detailed programming and uncertainties such as weather and ground conditions.

Table 2.1: Estimated duration of works (based on working 6 days per week)

Works	Estimated Duration
Enabling works and mobilisation of the compound (4AE)	6 weeks
Open Cut	3 months
TC018 installation (horizontal directional drilling (HDD) receiving area and stringing)	3 months
TC019 installation (auger bore reception area for A325 crossing)	3 months
Reinstatement	4–6 weeks. Reinstatement will consider seasonal constraints and will occur in the first available planting season

- 2.1.4 As noted above, this represents the case in which works are carried out individually. An example of how this might be rationalised would be to undertake both the trenchless works simultaneously, as they are distinct work activities, and then complete the Open Cut installation afterwards to link them together.
- 2.1.5 Once the construction plans have been finalised, the local community will be informed and updated in line with the Community Engagement Plan.
- 2.1.6 All works will be planned to take place within the normal working hours as defined by the DCO. It is only in exceptional or emergency circumstances that the works will continue outside of the standard working hours.



3 Description of Works

3.1 Access

- 3.1.1 Public access into the park will not be prevented by the works. The majority of the park will remain accessible during installation of all works. The existing central path will not be impacted. The phasing of construction, together with the intended methodology, will aim to reduce disruption to the southern cyclist/pedestrian path to a relatively short duration. However, at intersections between the working area and path/tracks, pedestrian crossing points will be installed, similar to those used for Public Rights of Way crossings. Pedestrians will have priority at these crossing points – the gates will only be ‘closed’ when works require. At such times, operatives will be stationed at the crossing point to facilitate public access.
- 3.1.2 Construction access for the majority of the works within the park will be from Cabrol Road access 8CP. Access to the auger reception pit for TC019 will be via the A325 access 8CZ. The project will not be utilising the A325 access 8CZ for any other works within the park.

Table 3.1: Access during construction

Access Point	Description
Cabrol Road entrance 8CP	Pedestrian and cyclist access will be maintained throughout installation.
Cabrol Road car park	Parking will be suspended while the compound is in use.
Southern A325 entrance 8CZ	Pedestrian and cyclist access will be maintained for the majority of the installation period. Temporary suspension for 1–3 days will be required while the short section of Open Cut crosses the path.
Cycle/pedestrian southern path	The use of the southern cyclist/pedestrian path will be suspended for the duration of the Open Cut installation. Approximately 3 months. Use of the southern cyclist/pedestrian path will also be temporarily suspended during parts of the stringing activity. Steps or ramps over the pipe string will be installed as soon as it is safe to do so.
Central (woodland) path	Esso has offered to upgrade this path to provide an alternative to the southern cyclist/pedestrian path through the park during construction.
Note: The northern A325 access and car park are outside of the Order Limits and will not be impacted by the proposals.	

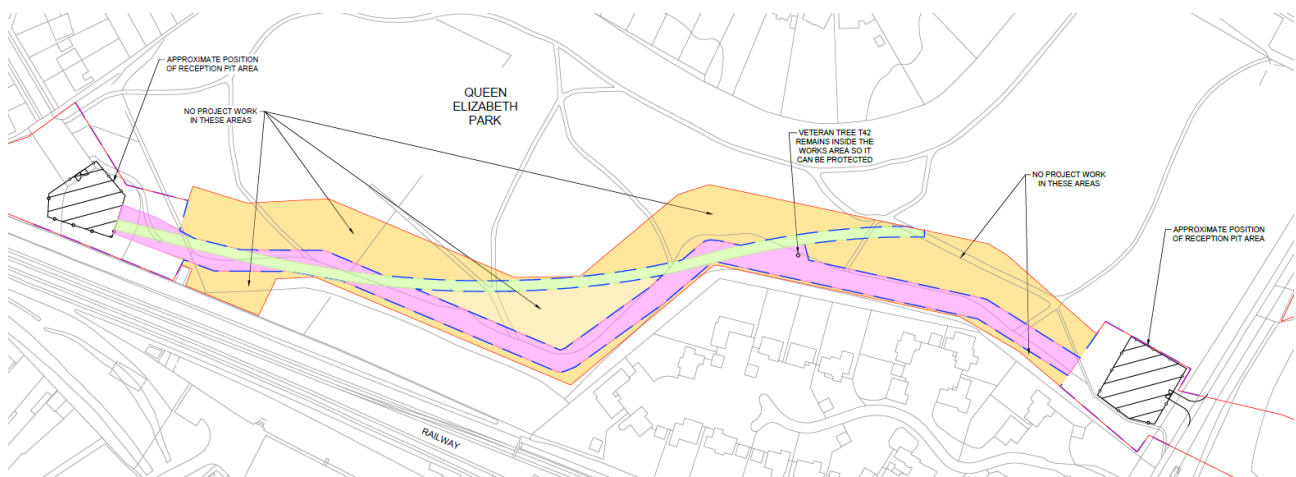
3.2 Security

- 3.2.1 The construction compound will be fully secure, with locked gates and on-site, 24-hour security and CCTV.
- 3.2.2 Heras-type fencing bolted together, or strong-wall fencing, will be used during the works. All plant and operatives will work within the fencing and compound.
- 3.2.3 The on-site, 24-hour security will patrol all working areas within the park.

3.3 Vegetation Removal

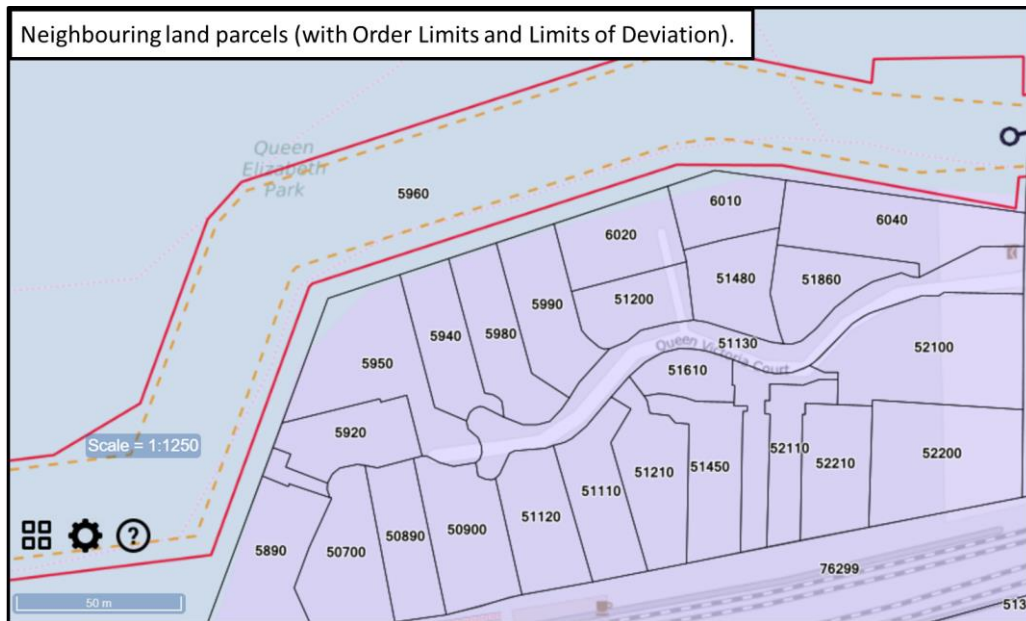
- 3.3.1 The local landscape character of the Order Limits that pass through the park comprises informal paths within amenity grassland shrubs beneath mature trees to the north, and a denser woodland area with dense rhododendron and secondary tree growth and a formal cyclist/pedestrian path to the south. ~~It is anticipated that none of the mature trees identified in the park will require removal.~~ Those trees to be removed have been identified in Table C in Appendix C of this document. A full tree survey, which complies with BS5837:2012, is included in Appendix D of this document.
- 3.3.2 Based on the ~~current intended~~ pipe alignment, ~~a small number shown at Appendix B of trees will be removed, approximately this document,~~ 30 non-mature trees, ~~will be removed (as listed in Appendix C),~~ largely adjacent to the cycle/pedestrian path. These are trees of a lower arboricultural value and are in areas previously discussed with Rushmoor Borough Council as benefitting from some tree removal, ~~if.~~ If not identified for removal, then the remaining identified trees will be retained, unless the relevant planning authority (Rushmoor Borough Council) agreed otherwise in accordance with Requirement 17 of the draft DCO. The installation will not require the removal of any mature or veteran trees. Vegetation will only be removed within the 5m and 10m working areas, the construction compound and the two reception pit areas as identified in illustration 3.1 below. Areas outside of this will not be removed by the works unless agreed with the relevant planning authority.

Illustration 3.1: Sketch to show vegetation retention outside of work areas (Appendix B)



- 3.3.3 Sections 3.5 to 3.7 below outline the approach that will be taken during construction to reduce the impact to vegetation and trees within the park, and this is reflected in the construction stage plan at Appendix B. As per Requirement 8(1)(a) of the DCO, the retention and removal of vegetation within the park must be undertaken in accordance with this Site Specific Plan (including the construction stage plan at Appendix B) unless otherwise agreed by the relevant planning authority.
- 3.3.4 The project does not intend to remove vegetation over the existing pipelines. In addition, given the residential boundaries to the south are offset from the Order Limits, vegetation forming the boundary with these properties will not be removed by the project.

Illustration 3.42: Neighbouring land parcels (with Order Limits and Limits of Deviation)



3.4 Enabling Works

3.4.1 This will consist of:

- creating a temporary play area
- creating the construction compound - Works 4AE;
- creating a safe Cabrol Road entrance for vehicles, pedestrians and cyclists; and
- removing the existing play area.

3.4.2 If located within the Order Limits, the area designated for the temporary play area adjacent to the Cabrol Road entrance will be securely fenced including access gates, topsoil will be stripped, play equipment installed including appropriate playing surface, temporary seating installed, waste bins and safety signage erected. If agreement is reached to locate the temporary play area outside of the order limits (but within the park), it will be installed as agreed with Rushmmor BC. Only once this work is completed can the next stage of the works in the park commence.

3.4.23.4.3 The construction compound 4AE will only be in place to serve the installation works within the park; this comprises the Open Cut installation through the park and the trenchless operations.

3.4.33.4.4 Prior to works commencing, the western car park within Queen Elizabeth Park will need to be closed to the public. Notices will be placed within the car park a minimum of two weeks prior to notify users. Additional communications activity to inform users of the entirety of the planned works will be covered in the location specific plan within the Community Engagement Plan.

3.4.43.4.5 At the Cabrol Road, access 8CP, entrance to the park, a temporary secure gate will be put in place during the works, with a new separate pedestrian and cyclist



gate/entrance. This will be in place of the existing wrought iron gate and fencing, which will be removed, stored and reinstated once the works are complete (assuming these are in a good condition at the time of removal; if not, a like-for-like replacement will be used for reinstatement).

~~3.4.53.4.6~~ The existing children's play area will be closed, with notices to users placed a minimum of two weeks in advance of the play apparatus removal, and only once the temporary play area has been fully completed and put into use.

~~3.4.6~~ ~~The temporary play provision that is being provided will be installed in agreement with Rushmoor Borough Council.~~

3.4.7 The construction compound 4AE will need to be constructed on the grassed area to the south of the car park. No trees will need to be removed to construct the compound but may require some branch pruning, which will be undertaken by specialists. Trees within the area of the compound will be suitably protected (with root protection or fencing) in accordance with the requirements of BS5837:2012.

3.4.8 Outside the root protection areas (RPA), topsoil in the compound area will be stripped and neatly stored to one side of the compound, which will provide additional noise and visual screening of the compound from users of the park. The area of the compound will then be covered with a permeable surface. (There will be no stripping or storage of topsoil within RPAs.)

3.4.9 The compound will be fenced with a 2m high perimeter fence that is bolted together. The public facing façade of the fencing will be in accordance with Rushmoor Borough Council's design/requirements and will include project information and safety notices.

3.4.10 Lighting will be installed, facing down and away from the nearby properties and railway, and only used while the compound is occupied (with the exception of security lighting). The compound will be fully secure, with locked gates and will have on-site, 24-hour security and CCTV.

3.4.11 A watching security guard will periodically check on the work sites when the works are not operating, such as during the night and on Sundays.

3.4.12 The construction compound will remain in place for the duration of the works within Queen Elizabeth Park.

3.5 Area of Park to be Used for the Works

3.5.1 The project has indicated in the sketch below the main areas that will be utilised for the works.

- Construction Compound
- TC018 Directional Drill reception area
- 5m wide TC018 pipe string area
- 10m wide Open Trench area
- TC019 Auger reception area



The project does not intend to use the remaining areas within the order limits. If the Applicant sought the ability to work in areas which are not currently shown as working areas on the plan, it could only do so with the prior consent of the relevant planning authority (in this case, Rushmoor Borough Council).

3.53.6 Open Cut

3.5.13.6.1 The Open Cut (generic) installation approach and the Working Adjacent to Trees methodology described in the Code of Construction Practice (CoCP) will be tailored to the conditions of the park to reduce the amount of vegetation and tree clearance required. Details on how this will be applied at this location are summarised below.

3.5.23.6.2 Open Cut installation will most likely begin at the receiving area for drill TC018, and then works will travel easterly until reaching the receiving area for the auger bore reception pit at TC019.

3.5.33.6.3 The Open Cut installation working area will be narrowed to a maximum 10m wide working area with an approximate working length of 50m. A 10m wide fencing/barrier system, will be erected within the Order Limits – this is to segregate the ‘live’ working area from public accessible areas. As the works progress, the fenced area will be relocated/extended so that no more than 50m of continuous fencing is in place before a public crossing point.

3.5.43.6.4 The vegetation clearance works (undertaken by a specialist) will be undertaken for the full length of the Open Cut section. This work will be completed before the construction fencing is erected. During vegetation clearance, warning signage to indicate restricted zones will be erected to alert the public to the works. All material will be removed and recycled.

3.5.53.6.5 Trees being retained will be protected from installation activity in line with commitment G95: ‘The contractor(s) will apply the relevant protective principles set out in the British Standard BS5837:2012 - Trees in Relation to Design Demolition and Construction. This will be applied to trees within the Order Limits which will be preserved through the construction phase, and to trees outside of the Order Limits where such measures do not hinder or prevent the use of the relevant working width for construction.’

3.5.63.6.6 The project Environmental Clerk of Works and arboriculturalist will monitor and provide advice when any works to trees, such as branch removal, are required. Hand digging and air lance techniques or similar British Standard–approved techniques will be utilised when excavating within the RPA.

3.5.73.6.7 The trench will be offset by a minimum of 3m to the north of the existing fuel and gas pipelines. Installation should not require the removal of vegetation from the area above the existing pipelines.

3.5.83.6.8 Size of plant (vehicles and machinery) will be smaller than traditional Open Cut plant. This is necessary to work safely within the reduced 10m working width.



[3-5-93.6.9](#) All fabrication works (such as grinding, welding, coating and testing) will be undertaken behind screens or within shelters in order to prevent reduce any impact on the users of the park. These screens will include acoustic protection if required.

[3-5-103.6.10](#) The ~~intended~~ alignment of the working area is presented in the drawing in Appendix [AB](#).

[3-5-113.6.11](#) The use of the cycle/pedestrian path will be suspended during Open Cut installation works. The public entrance from the A325 will remain open with a diversion to the northern park path available.

[3-6-3.7](#) TC018 Installation (HDD Receiving Area and Stringing)

[3-6-13.7.1](#) The works for this trenchless crossing will follow the methodology as outlined in the CoCP and will be tailored to the conditions of the park to reduce the amount of vegetation and tree clearance required. Details on how this will be applied at this location are summarised below.

[3-6-23.7.2](#) The HDD receiving area for TC018 will be directly adjacent to the construction compound. Fencing, as outlined for the compound, will be installed around the area (and to the park's southern boundary).

[3-6-33.7.3](#) The HDD receiving area will be placed over the existing play area and therefore requires no vegetation clearance. Visual and acoustic barriers will be installed along the fencing to reduce noise and light disturbance to park users and nearby residential properties.

[3-6-43.7.4](#) Vegetation clearance will take place to clear small scrub and plants from the string area, although it is expected that no trees will be removed (based on current conditions).

[3-6-53.7.5](#) A welding station/working area will be set up within the HDD receiving area.

[3-6-63.7.6](#) Sections of pipe will be lifted into the welding station from the construction compound. The pipes will be welded and coated to produce a string.

[3-6-73.7.7](#) Each time a pipe is welded to the string, the pipe string will be pulled by a mini excavator, or mobile winch, into the stringing area in the park to allow the next pipe to be welded.

[3-6-83.7.8](#) A 5m wide fencing/barrier system will be erected within the Order Limits – this is to segregate the pipe stringing area from public accessible areas. As the pipe string works progress, the fenced area will be relocated/extended so that no more than 50m of continuous fencing is in place before a public crossing point.

[3-6-93.7.9](#) This process will require a gradual extension of fencing of the pipe stringing area, matching the length of the strung pipe up to the 450m required. Access to the park within the 5m wide pipe stringing area will only be restricted while the pipe is present.

[3-6-103.7.10](#) The pipe string will be placed on rollers, with suitable step overs (described below) to allow access to both sides of the pipe stringing out area. When the pipe

string has to be pulled around a bend, kentledge (weighted blocks) will be placed to guide the pipe string – these will be placed on load-spreading boards to reduce any potential impact to tree RPAs- in accordance with BS5837:2012.

3.6.143.7.11 To maintain public access to the southern cyclist/pedestrian path whilst the pipe string is in place, step overs will be installed as soon as safely practicable (illustrative image below). These are steps or ramps that provide connectivity within the park, typically every 50m. The barriers and fencing will be removed at these places and the ends secured.

Photo 3.1: Indicative temporary steps over pipe string (pipe larger than SLP pipeline)



3.6.143.7.12 For safety reasons, use of the cycle/pedestrian path will be suspended for short durations, firstly when the pipe stringing works intersect the cyclist/pedestrian path, and secondly when the pipe string is being pulled back to Stake Lane.

3.6.143.7.13 When the pipe string is complete, it will be tested to ensure its integrity.

3.6.143.7.14 The HDD installation will start once the pipe string is available. A reception pit will be excavated within the receiving area using a tracked excavator and the arisings moved and stored within the vicinity for future reuse. This pit will be approximately 3m x 3m wide and 2m deep; temporary works will be placed within the pit to keep it safely open during the drill.

3.6.153.7.15 The HDD drilling will then commence from Stake Lane creating a bore from Stake Lane to Queen Elizabeth Park. Once the bore has been established, the strung-out pipe within the park will then be pulled back through the bore.

3.6.163.7.16 Once the HDD section is complete, the reception pit will be fenced off and left in situ until the Open Cut section connecting the pipe to the trenchless section is concluded.

3.6.173.7.17 The timing of the tie into the Open Cut section will depend on the sequencing of works.

3.7.3.8 TC019 Installation (Auger Bore Receiving Area for A325 Crossing)

3.7.13.8.1 The works for this trenchless crossing will follow the methodology as outlined in the CoCP and will be tailored to the conditions of the park to reduce the amount of

vegetation and tree clearance required. Details on how this will be applied at this location are summarised below.

3.7.23.8.2 An auger bore technique will be used to cross beneath the A325. The auger bore machine will be set up within the grounds of Farnborough Hill School, and a receiving area will be set up within the park.

3.7.33.8.3 Vegetation will need to be cleared from this area, but no mature trees will be removed. The area will then be scanned for utilities and ground protection laid to reduce topsoil stripping in accordance with BS5837:2012.

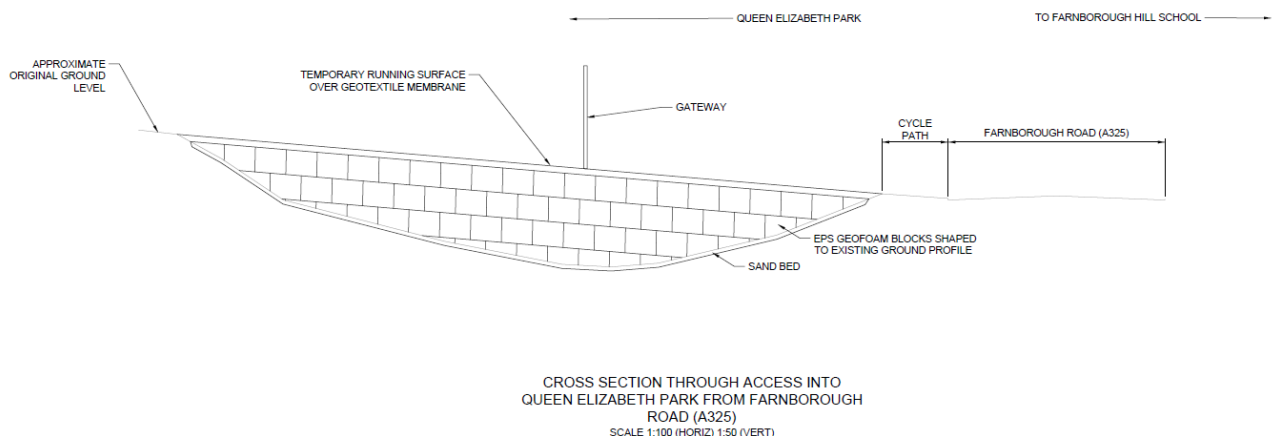
3.7.43.8.4 A safe access from the A325 will be created, then the receiving area will be created.

3.7.53.8.5 To safely bring plant into the receiving area from the A325, and subject to a permit from the Highway Authority, traffic management will be set up on the northbound carriageway of the A325 to notify motorists and pedestrians that:

- a) traffic will be pulling off the carriageway and into the receiving area; and
- b) that vehicles and plant will be re-joining the carriageway from the area, heading north only.

3.7.63.8.6 A lightweight low loadbearing ramp will be constructed from the road level of the A325 down into the receiving pit area in the park. The construction of the ramp will be designed to not impact on the RPAs. This will be achieved by utilising lightweight geofoam blocks layered on a geotextile matting. These blocks are then covered in a series of layers of material from type 1, sand and soil to create a suitable work platform and laydown area. A bottom drain will be installed and directed to the culvert outfall to maintain surface water drainage in this area whilst the ramp and working area is in use.

Illustration 3.3: TC019 Auger Pit Cross Section Light Weight Ramp



3.7.73.8.7 The equipment to create the receiving pit area will then be brought into the area. A reception pit will then be excavated approximately within the silted up ephemeral

pond, at approximately 5m wide, 6m long and 3m deep. The method will be as per the Trenchless Auger Bore methodology as detailed within the CoCP. Excavated material will be neatly banded within the receiving area or stored off-site.

3.7.83.8.8 The auger bore from the school will only commence once the receiving pit area set-up is complete. The pipe will be pushed from the school into the reception area in the park. Once complete, the pipe ends will be capped until the pipe can be joined to the Open Cut section. The excavation will remain open and securely fenced until this activity is completed.

3.7.93.8.9 The timing of the tie into the Open Cut section will depend on the sequencing of works.

3.83.9 Reinstatement

The Playground

3.8.13.9.1 Once the construction works within the park are complete and the construction compound removed, the children's play area will be reinstated with new equipment and surfaces. This will be undertaken as soon as it is safe to do so.

The Cycle/Pedestrian Path

3.8.23.9.2 The southern boundary cyclist/pedestrian path and lighting will be reinstated once the Open Cut installation is complete. Details will be in agreement with Rushmoor Borough Council.

The Eastern Pond adjacent to A325

3.8.33.9.3 The largely overgrown pond at the eastern end of the park within the auger bore site will be reinstated. The temporary entrance off the A325 and lightweight ramp construction, auger pit including the material used for root protection will be completely removed and the area returned to its original condition prior to the project commencing. The largely overgrown ephemeral pond area will be reinstated and surface water drainage to the culvert restored.

Vegetation Reinstatement

3.8.43.9.4 Vegetation will be reinstated as shown in the reinstatement plan attached in Appendix B. This reinstatement plan will be included within Appendix B of the Landscape and Ecological Management Plan (LEMP) for the approval of the relevant planning authority as per Requirement 8(1)(b) and Requirement 12 of the DCO.

3.8.53.9.5 It has been proposed that areas of rhododendron either side of the southern cycle/pedestrian path will be reinstated with a mix of woodland species, which will create the feel of a woodland ride and lead to an increase in biodiversity. This will be detailed in the LEMP and agreed with the relevant planning authority.

3.8.63.9.6 The vegetation will be subject to a five-year aftercare period to ensure it becomes established.



[3.8.73.9.7](#) Drawings of vegetation reinstatement can be found in Appendix B.

[3.8.83.9.8](#) Note: This document does not cover activities offered by Esso as part of its voluntary Environmental Investment Programme.



Appendix A – Area Plans



Appendix B – Construction and Reinstatement Plans

Appendix C – Trees to be Removed

Tree Survey - Schedule Key

Life Stage	Description
NP	Newly planted
Y (Young)	An establishing tree that could easily be transplanted.
SM (Semi Mature)	An established tree still to reach its ultimate height and spread and with considerable growth.
EM (Early Mature)	A tree reaching its ultimate height and whose growth is slowing however it will still increase considerably in stem diameter and crown spread.
M (Mature)	A tree with limited potential for further increase in size although likely to have a considerable safe useful life expectancy.
OM (Over Mature)	A senescent or moribund tree with a limited useful expectancy.
V (Veteran)	A tree older than typical for the species and of great ecological, cultural or aesthetic value

BS Category	Description
A	High quality and value (non-fiscal) with at least 40 years remaining life expectancy.
B	Moderate quality and value with at least 20 years remaining life expectancy.
C	Low quality and value with at least 10 years remaining life expectancy, or young trees with a stem diameter below 150mm.
U	Unsuitable for retention. The existing condition is such that the tree/trees cannot be realistically retained as in the context of the current land use for longer than 10 years. Note, category U trees can have existing or potential conservation value which it might be desirable to preserve.
RPA Radius (m)	Root Protection Radius in metres based on stem diameter.
RPA Area (m2)	Root protection Area. A layout design tool indicating the minimum area surrounding the tree that contains sufficient rooting volume to maintain the trees viability, and where the protection of the roots and soil structure is treated as a priority. Assessed according to the recommendations set out in clause 4.6 of BS 5837. It is calculated by multiplying the radius squared by 3.142. Clause 4.6 of BS 5837 states that the RPA may be changed in shape, taking into account local site factors, species tolerance, condition and root morphology.

Abbreviations	Description
Stem Ø (mm) at 1.5m	Diameter of stem in millimetres at 1.5m above ground level for single-stemmed trees or in accordance with Annex C of BS 5837 for multi-stemmed trees or trees with low forks or irregular stems.
Stems	Numbers of stems or M/S = Multi-Stemmed
Height of (FSB)	Height of First Significant Branch above ground level.
Crown Spread NSEW	Crown spread at the four points, North, South, East and West.
Condition	Condition of the tree observed at the time of surveying G = Good; F = Fair; P = Poor; D = Dead.

Tree Survey - Schedule of Trees to be removed in Queen Elizabeth Park

Table C: Schedule of Trees to be Removed in Queen Elizabeth Park

Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T63	Alder	EM	260	20		3	3	3	3	F		N/A	20+	C1	3.1	31
T64	Hazel	Y	80	3		2	2	2	2	F		N/A	20+	C1	1	3
T99	Oak	SM	180	15		3	3	3	3	F		N/A	20+	C2	2.2	15
T116	Silver birch	SM	180	18		2	2	2	2	F		N/A	20+	C2	2.2	15
T117	Silver birch	Y	140	14		2	2	2	2	F		N/A	20+	C2	1.7	9
T118	Sweet chestnut	SM	240	18		4	4	4	4	F		N/A	20+	C2	2.9	26
T119	Silver birch	SM	180	16		2	2	2	2	F		N/A	20+	C2	2.2	15
T121	Silver birch	Y	120	16		2	2	2	2	F		N/A	20+	C2	1.4	7
T122	Silver birch	SM	180	12		2	2	2	2	F		N/A	20+	C2	2.2	15
T124	Holly	SM	70	8		2	2	2	2	F		N/A	20+	C2	0.8	2
T156	Oak	Y	130	14		3	3	3	3	F		N/A	20+	C2	1.6	8
T157	Oak	Y	150	14		3	3	3	3	F		N/A	20+	C2	1.8	10
T158	Oak	EM	220, 230	16		4	4	4	4	F		N/A	20+	C2	3.8	46
T208	Silver birch	SM	220, 110, 140	10		3	3	3	3	F		N/A	20+	C2	3.4	36
T209	Silver birch	SM	200	14		4	4	4	4	F		N/A	20+	C2	2.4	18
T222	Sycamore	Y	85	8		2	1	1	1	F		N/A	20+	C1	1	3
T276	Lime	SM	215	10(2.5)		4	4	5	4	F		N/A	20+	C1	2.6	21
T283	Beech	Y	60	6		1	1	1	1	F		N/A	20+	C1	0.7	2
T284	Sweet chestnut	SM	280	14(3)		4	4	4	4	F		N/A	20+	C2	3.4	35
T286	Silver birch	SM	150, 245, 40, 65	16(2)		3	3	3	3	F		N/A	20+	C1	3.6	40
T287	Sweet chestnut	EM	260	15(2)		3	5	5	4	F		N/A	20+	C2	3.1	31
T345	Silver birch	EM	210	16		3	3	3	3	F		N/A	20+	C1	2.5	20
T346	Sweet chestnut	Y	120	16		3	3	3	3	F		N/A	20+	C1	1.4	7
T347	Silver birch	SM	140, 120, 140	16		3	3	3	3	F		N/A	20+	C1	2.8	24
T362	Silver birch	EM	160	12		2	2	2	2	F		N/A	20+	C1	1.9	12
T372	Silver birch	Y	95	6		1	1	2	1	F		N/A	20+	C1	1.1	4
T380	Silver birch	EM	210	14		1	2	3	2	F		N/A	20+	C1	2.5	20
T442	Ash	SM	310	14(2.5)		4.5	4.5	4.5	4.5	F	Prolific ivy and deadwood	N/A	40+	B2	3.7	43
T474	Holly	EM	220	9(0.5)		3	3	3	3	F		N/A	40+	C2	2.6	22
T478	Sycamore	Y	120	9		1	1	1	1	F		N/A	40+	C2	1.4	7



Appendix D Tree Survey Schedule and Plans