

Method Statement for Cadent Gas Mains Replacement Work – IMG232126 South Hill Park

Cadent Tree Department: Rav Curry

Email: rav.curry@camden.gov.uk

Phone: 0207 974 3770

Cadent Environmental Manager: Brad Worrell

Email: bradley.worrell@morrisones.com

Phone: 07833 427109

Summary

Due to an enforcement policy issued by the Health and Safety Executive (HSE), Cadent Gas have been commissioned to abandon and replace approximately 4m of 2" cast-iron low-pressure gas service with a new PE service at 10 South Hill Park, London.

In order to complete the required work, Cadent need to lay the new gas service via open-cut method within the public highway and public footpath.

Having reviewed the project, it appears that the root protection zones of two trees located within the South Hill Park Conservation Area extends into the public footpath. Therefore, it may be necessary for Cadent to excavate within the RPZ of two trees located within the Conservation Area and severe small diameter roots.

Plan of the affected trees which are located within the South Hill Park Conservation Area can be found in Appendix 1.

Site Control Measures

Cadent work to NJUG Volume 4 Standards and therefore the following measures have been put in place to minimise the impact on the tree:

Prohibited Zone of a Tree RPZ (0-1m from Trunk):

- Where an excavation is required within the Prohibited Zone, this will be completed via **hand-dig or vacuum excavator** and supervised by an Independent Arboricultural Consultant.
- In the event where a root >25mm diameter is found and Cadent Operations may impact on the root, works will cease immediately and consultation with an Independent Arboricultural Consultant will take place. Roots will only be severed if the Arborist confirms that the severance is unlikely to impact on the trees health and stability.
- If the severance of roots <25mm diameter is required, this will be cut back using a sharp tool to leave the smallest wound.
- If possible, clumps of roots <25mm diameter (including fibrous roots) will be retained in situ without damage. Care will be taken to protect the bark around the roots.
- In an attempt to protect any roots against desiccation and temperature change, any exposed roots location in a trench which is to be left open overnight, will be wrapped with dry sacking. The sacking will be removed prior to backfilling.
- There will be no storage of plant, soil, fuel or machinery within the Prohibited Zone.

Precautionary Zone of a Tree RPZ (1m from Trunk – 4 x Tree Circumference):

- Where an excavation is required within the Precautionary Zone, this will be completed by either **hand-dig, a blow-out air lance or vacuum excavator**.
- In the event where a root >25mm diameter is found and Cadent Operations may impact on the root, works will cease immediately and consultation with an Independent Arboricultural Consultant will take

place. Roots will only be severed if the Arborist confirms that the severance is unlikely to impact on the trees health and stability.

- If the severance of roots <25mm diameter is required, this will be cut back using a sharp tool to leave the smallest wound.
- If possible, clumps of roots <25mm diameter (including fibrous roots) will be retained in situ without damage. Care will be taken to protect the bark around the roots.
- In an attempt to protect any roots against desiccation and temperature change, any exposed roots location in a trench which is to be left open overnight, will be wrapped with dry sacking. The sacking will be removed prior to backfilling.
- There will be no storage of plant, soil, fuel or machinery within the Precautionary Zone.

Permitted Zone of a Tree RPZ

- Where an excavation is required within the Permitted Zone, this will be completed with by either **hand-dig, a blow-out air lance or vacuum excavator**.
- In the event where a root >25mm diameter is found and Cadent Operations may impact on the root, works will cease immediately and consultation with an Independent Arboricultural Consultant will take place. Roots will only be severed if the Arborist confirms that the severance is unlikely to impact on the trees health and stability.
- If the severance of roots <25mm diameter is required, this will be cut back using a sharp tool to leave the smallest wound.
- If possible, clumps of roots <25mm diameter (including fibrous roots) will be retained in situ without damage. Care will be taken to protect the bark around the roots.
- In an attempt to protect any roots against desiccation and temperature change, any exposed roots location in a trench which is to be left open overnight, will be wrapped with dry sacking. The sacking will be removed prior to backfilling.

Please note the following:

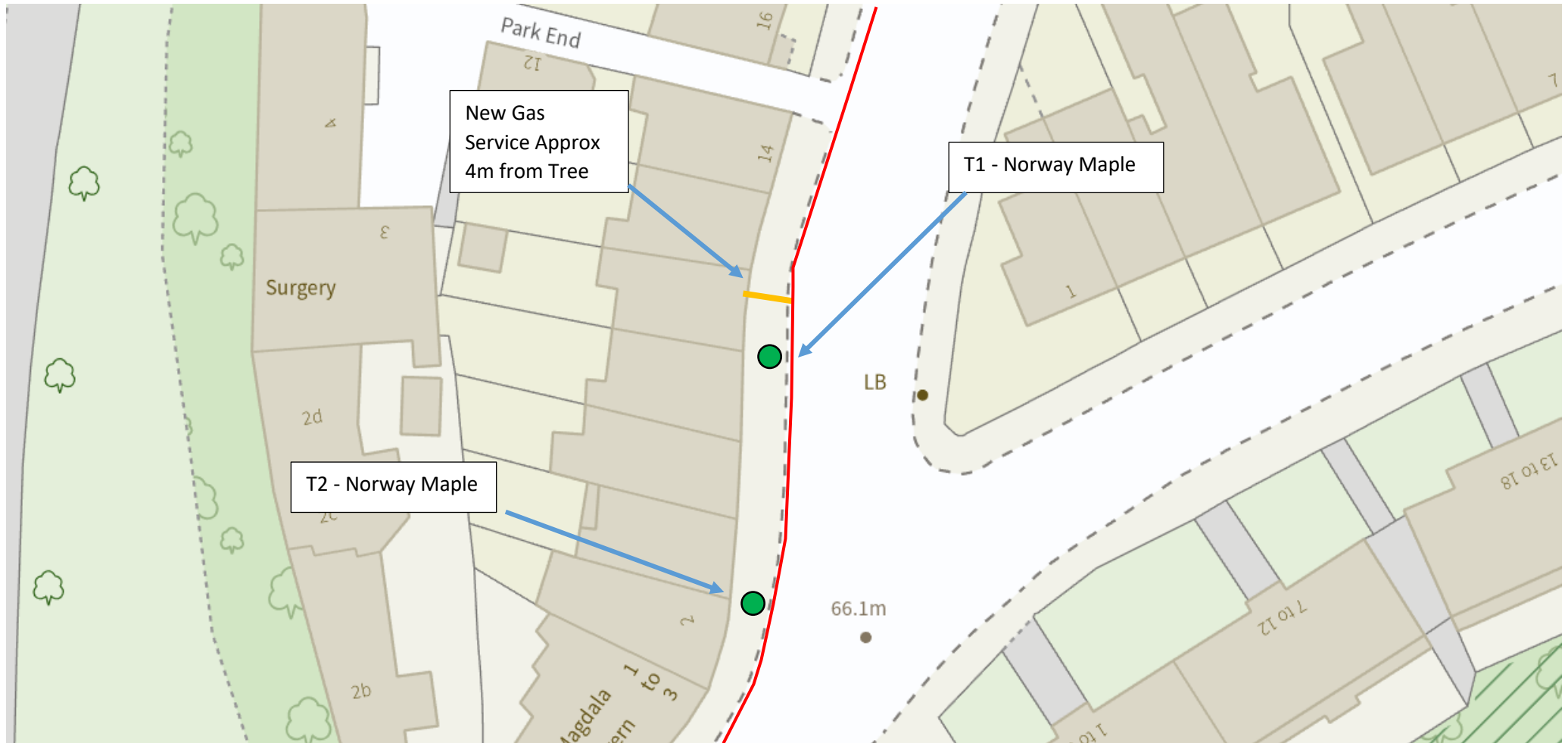
- As per Cadent Operating Procedures, there will be no cutting down, topping or looping of third party trees without prior approval from the stakeholder. Any vegetation clearance taking place between 1st March – 30th September must have Bird Nesting check completed by an authorised ecologist.
- In the event in which a Nesting Bird is found within an excavation, plant or machinery or if Protected Species are found on site, works will cease immediately and the incident reported to the Cadent Incident Line.
- In the event of an environmental incident on site, works will cease immediately and the incident reported to the Cadent Incident Line.

Appendix 1 – Affected Trees

Tree to be affected by gas mains replacement works are highlighted below. This purely consists of severing roots to access the existing gas mains which are located within the public highway/footpath and lay new gas service. No above-ground works (ie. pruning/felling) will take place to any trees.

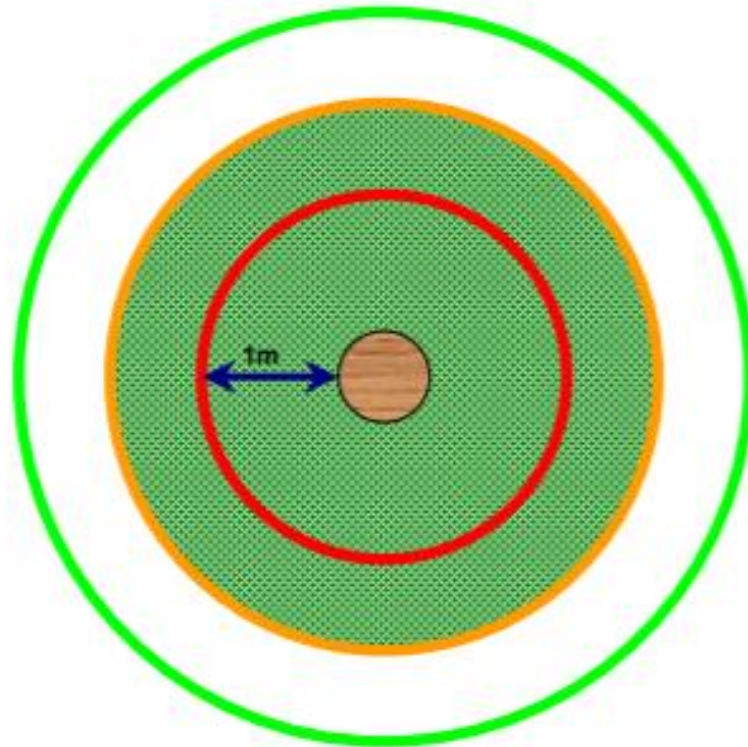
- = Trees Affected Protected by Conservation Area Status
- = Location of Existing Gas Main
- = Location of New Gas Service installed via Open-Cut Trench

South Hill Park, London



NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees

FIGURE 1 – Tree Protection Zone



Key



Trunk of tree



Canopy or branch spread



PROHIBITED ZONE – 1m from trunk. Excavations of any kind must not be undertaken within this zone unless full consultation with the local authority Tree Officer is undertaken. Materials, plant and spoil must not be stored within this zone.



PRECAUTIONARY ZONE – 4 x tree circumference. Where excavations must be undertaken within this zone the use of mechanical excavation plant should be prohibited. Precautions should be undertaken to protect any exposed roots. Materials, plant and spoil should not be stored within this zone. Consult with the local authority Tree Officer if in any doubt.



PERMITTED ZONE – outside of the precautionary zone. Excavation works may be undertaken within this zone, however caution must be applied and the use of mechanical plant limited. Any exposed roots should be protected.

For Cadent Reference Only:

Site: IMGM232126 South Hill Park		Activity: Ecology, Trees and Hedgerows		Persons Conducting Assessment: Bradley Worrell	
Risk Assessment No: EHS-ERA-003	Review Due Date: March 2025	Revision No: 1.0	Name: Bradley Worrell	Signature:	Date: 04/03/2024
Person Supervising Work: Site Manager		Employer: Cadent Gas		Name: TBC	Date: TBC
Persons Exposed:	Employees:	Public/Visitors: X	Public/Visitors: X	Public/Visitors: X	Total at Risk:

Severity	5	5	10	15	20	25	<p><u>Likelihood</u></p> <p>Rating 1 = Very Unlikely Rating 2 = Unlikely Rating 3 = Likely Rating 4 = Very Likely Rating 5 = Almost Certain</p>	<p><u>Severity</u></p> <p>Rating 1 = No Environmental Impact Rating 2 = Minor Impact Rating 3 = Significant Impact Rating 4 = Extreme Impact Rating 5 = Catastrophic, Game Changing</p>
	4	4	8	12	16	20		
	3	3	6	9	12	15		
	2	2	4	6	8	10		
	1	1	2	3	4	5		
		1	2	3	4	5		

Likelihood

Risk = Likelihood x Severity

AcceptableFurther reviewUnacceptable Risk

Hazard	1	2	3	4	5	6	7	8	9
	Factors of Harm		Risk	Control Measures	Factors of Harm		Residual Risk	Control measures implemented By:	Control Frequency Check Rate
	Likelihood	Severity	Multiple of Columns 1 x 2		Likelihood	Severity	Multiple of Columns 5 x 6		
Working near Trees and Hedgerows	4	2	8	<ul style="list-style-type: none"> When working near to any trees, Operatives to be briefed on NJUG Guidance. NJUG Guidance must be followed at all times. The following additional controls must be adhered to at all times: <ul style="list-style-type: none"> Any excavations within 1m of trunks must be completed by hand-dig and supervised by an Independent Arboricultural Consultant. All roots >25mm diameter must be retained. All excavations within the Precautionary Zone (under the tree canopy) must only be dug by Hand, Air Lance or Vac Ex. 	2	2	4	Site Manager, Team Leader & Operatives	Daily

				<ul style="list-style-type: none">○ Tree roots >25mm diameter must not be cut unless granted by an Independent Arboricultural Consultant.○ No materials, plant or soil must be stored within the Prohibited and Precautionary Zone (under the tree canopy).○ Any exposed roots left overnight should be protected with Hessian sacking (wet Hessian sacking during the Summer).● Any vegetation clearance (cutting branches, removing sections) must be authorised from the Local Authority. If taking place between 1st March – 30th September, a bird nesting check must be completed prior by a licensed ecologist. Contact Environmental Advisor for support.● In the event on an Environmental Incident on site, Operatives must follow CAD-SHES-17 Incident Investigation and Reporting Procedure.					
--	--	--	--	---	--	--	--	--	--