

The Council aims to exchange the NO<sub>2</sub> tubes on the dates as suggested by the Air Quality Archive. Table A8 shows the changeover dates used in 2007, the majority were on the specified days, those that were not were within the allowed tolerance of  $\pm$  two days.

Start	Finish	Period
03/01/2007	<b>30/01/2007</b>	1
<b>30/01/2007</b>	28/02/2007	2
28/02/2007	04/04/2007	3
04/04/2007	02/05/2007	4
02/05/2007	30/05/2007	5
30/05/2007	04/07/2007	6
04/07/2007	<b>31/07/2007</b>	7
<b>31/07/2007</b>	29/08/2007	8
29/08/2007	03/10/2007	9
03/10/2007	31/10/2007	10
31/10/2007	<b>29/11/2007</b>	11
<b>29/11/2007</b>	<b>03/01/2008</b>	12

Table A8: Changeover dates for nitrogen dioxide tubes in 2007.

# DMRB: Assessment of Local Air Quality

# INPUT SHEET

<b>Step 1</b>	Receptor name	M180 (110kph)	Receptor number	3	<b>Step 6</b>	CALCULATE					
<b>Step 2</b>	Year	2008	<b>Step 7</b>				STORE RESULTS FOR THIS RECEPTOR				
<b>Step 3</b>	Number of links	2	<b>Step 4</b>				CLEAR INPUT DATA				
Background concentrations for 2008											
	CO (mg/m <sup>3</sup> )	Benzene (µg/m <sup>3</sup> )	1,3-butadiene (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )					
	0.15	0.85	0.08	37	22.98	16.62					
<b>Step 5</b>	Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition						
			AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)		Vehicles >3.5t GVW (HDV)			
					% passenger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
	1	39	38100	110	A		72.6				27.4
	2	27	4970	59.32	B		96.4				3.6

Figure A9: DMRB inputs for M180 run.

# DMRB: Assessment of Local Air Quality

# OUTPUT SHEET

<b>Current receptor</b>		Receptor Name		M180 (110kph)	Receptor number		3	CLEAR RESULTS - CURRENT RECEPTOR	CLEAR RESULTS - ALL RECEPTORS				
		Assessment year		2008									
<b>Results</b>								<b>Contribution of each link to annual mean</b>					
Pollutant	Annual mean				For comparison with Air Quality Standards			Link number	CO (mg/m <sup>3</sup> )	Benzene (µg/m <sup>3</sup> )	1,3-butadiene (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units						
CO	0.15	0.06	0.21	mg/m <sup>3</sup>	Annual mean*	0.21	mg/m <sup>3</sup>	1	0.05	0.05	0.21	47.13	4.07
Benzene	0.85	0.07	0.92	µg/m <sup>3</sup>	Annual mean	0.92	µg/m <sup>3</sup>	2	0.01	0.01	0.01	2.84	0.29
1,3-butadiene	0.08	0.22	0.30	µg/m <sup>3</sup>	Annual mean	0.30	µg/m <sup>3</sup>	3					
NO <sub>x</sub>	37.0	50.0	87.0	µg/m <sup>3</sup>	Not applicable			4					
NO <sub>2</sub>	23.0	11.2	34.2	µg/m <sup>3</sup>	Annual mean*	34.2	µg/m <sup>3</sup>	5					
PM <sub>10</sub>	16.6	4.36	20.98	µg/m <sup>3</sup>	Annual mean	21.0	µg/m <sup>3</sup>	6					
					Days >50µg/m <sup>3</sup>	5	Days	7					
								8					
								9					
								10					
								11					
								12					
								13					
								14					
								15					

\* See Footnote 32 in DMRB Volume 11 Chapter 3

<b>All receptors</b>			<b>Pollutant concentrations at receptor</b>							
Receptor number	Name	Year	CO*	Benzene	1,3-butadiene	NO <sub>x</sub>	NO <sub>2</sub> *	PM <sub>10</sub>		
			Annual mean mg/m <sup>3</sup>	Annual mean µg/m <sup>3</sup>	Annual mean µg/m <sup>3</sup>	Annual mean µg/m <sup>3</sup>	Annual mean µg/m <sup>3</sup>	Annual mean µg/m <sup>3</sup>	Annual mean µg/m <sup>3</sup>	Days >50µg/m <sup>3</sup>
1	M180	2008	0.21	0.91	0.30	83.57	33.56	20.31	3.80	
2	M180 (100kph)	2008	0.21	0.91	0.30	85.99	34.02	20.65	4.24	
3	M180 (110kph)	2008	0.21	0.92	0.30	86.97	34.20	20.98	4.70	

Figure A10: DMRB outputs for M180 run.

Part 5: New Diffusion Tube Locations

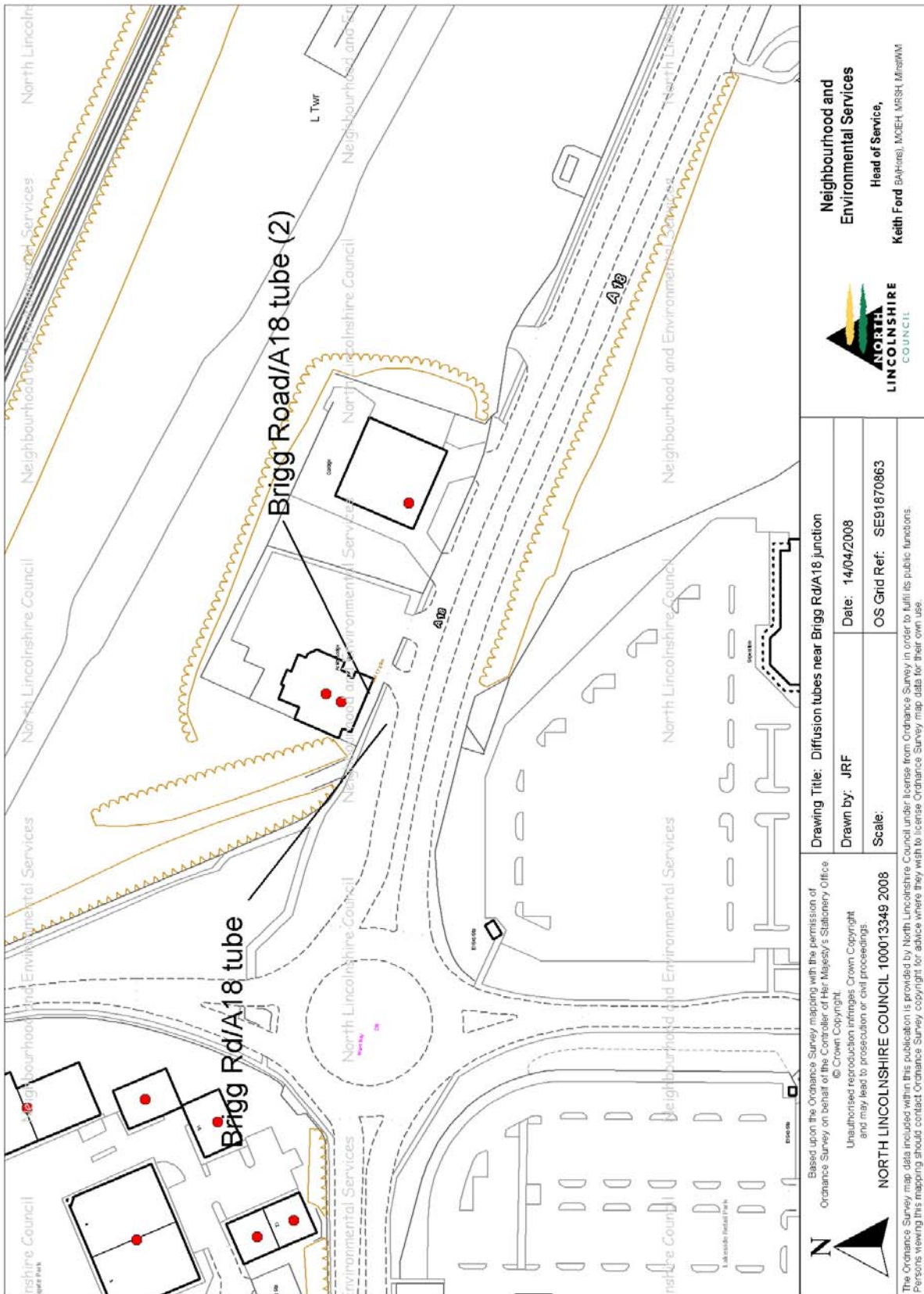
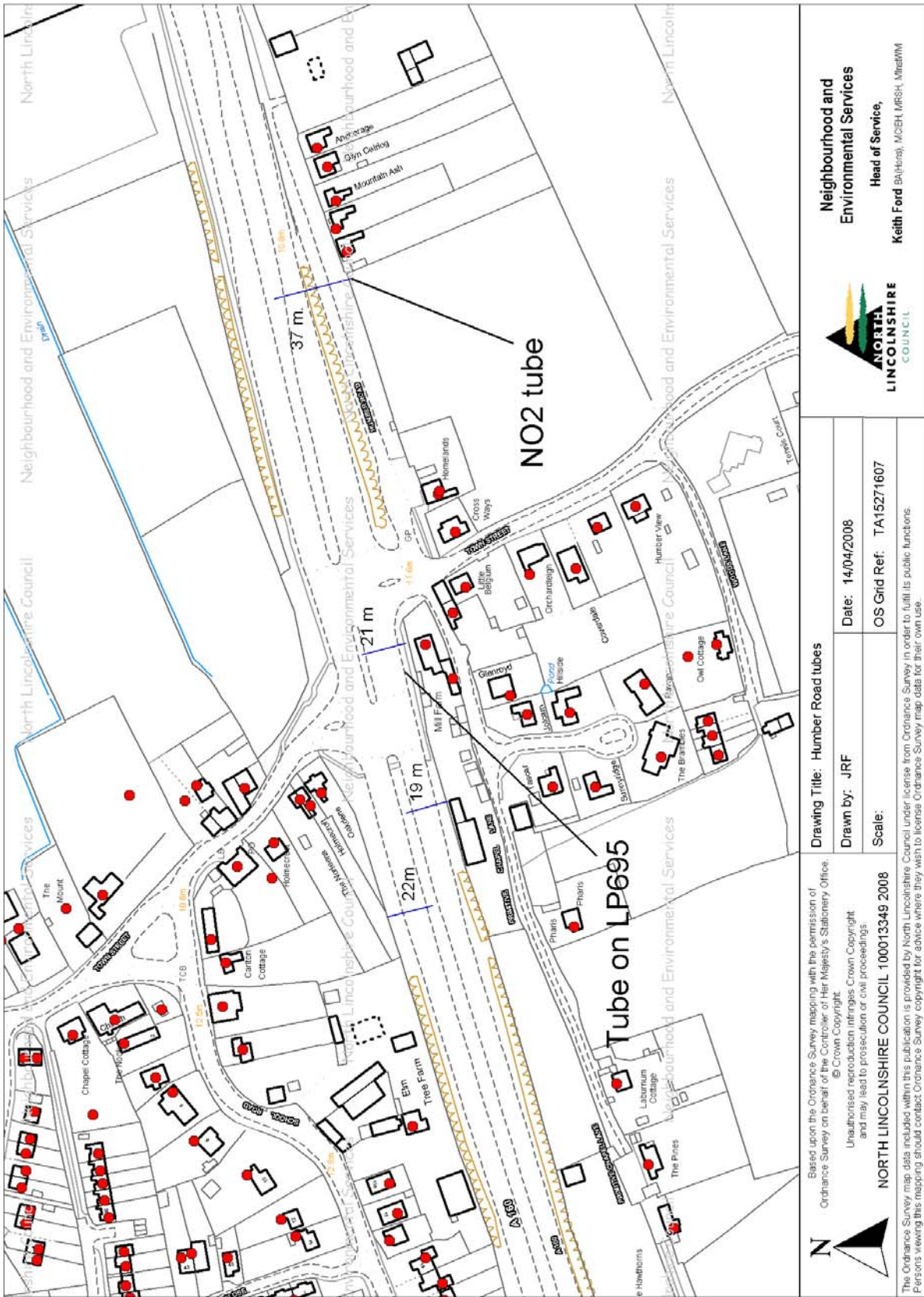


Figure A11: The location of the second diffusion tube at the junction of Brigg Road and the A18.



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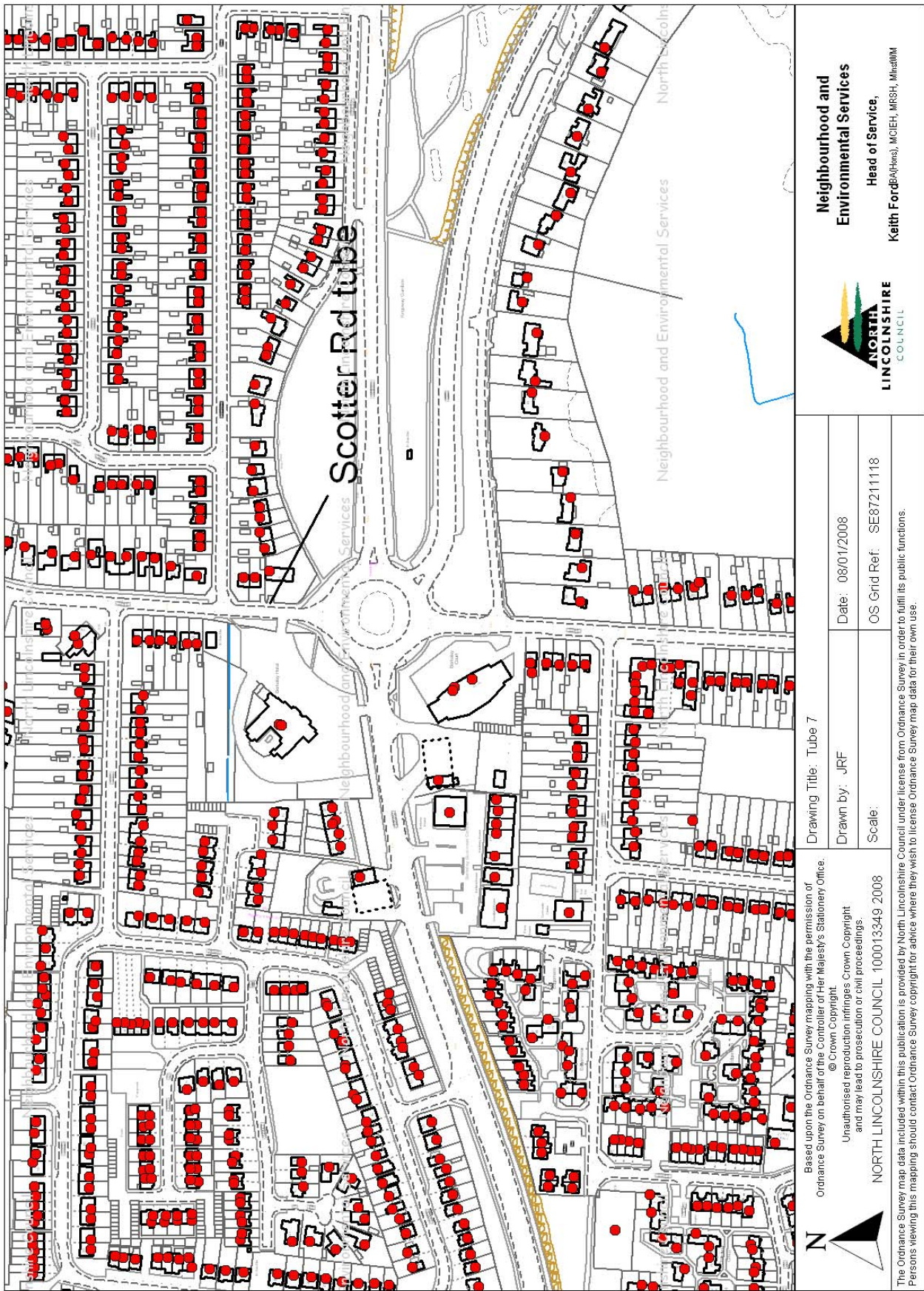
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**Neighbourhood and Environmental Services**  
**Head of Service,**  
**Keith Ford BA(Hons), M2EH, MRSH, MInstMM**

**Drawing Title:** Humber Road tubes  
**Date:** 14/04/2008  
**Drawn by:** JRF  
**OS Grid Ref:** TA15271607  
**Scale:**

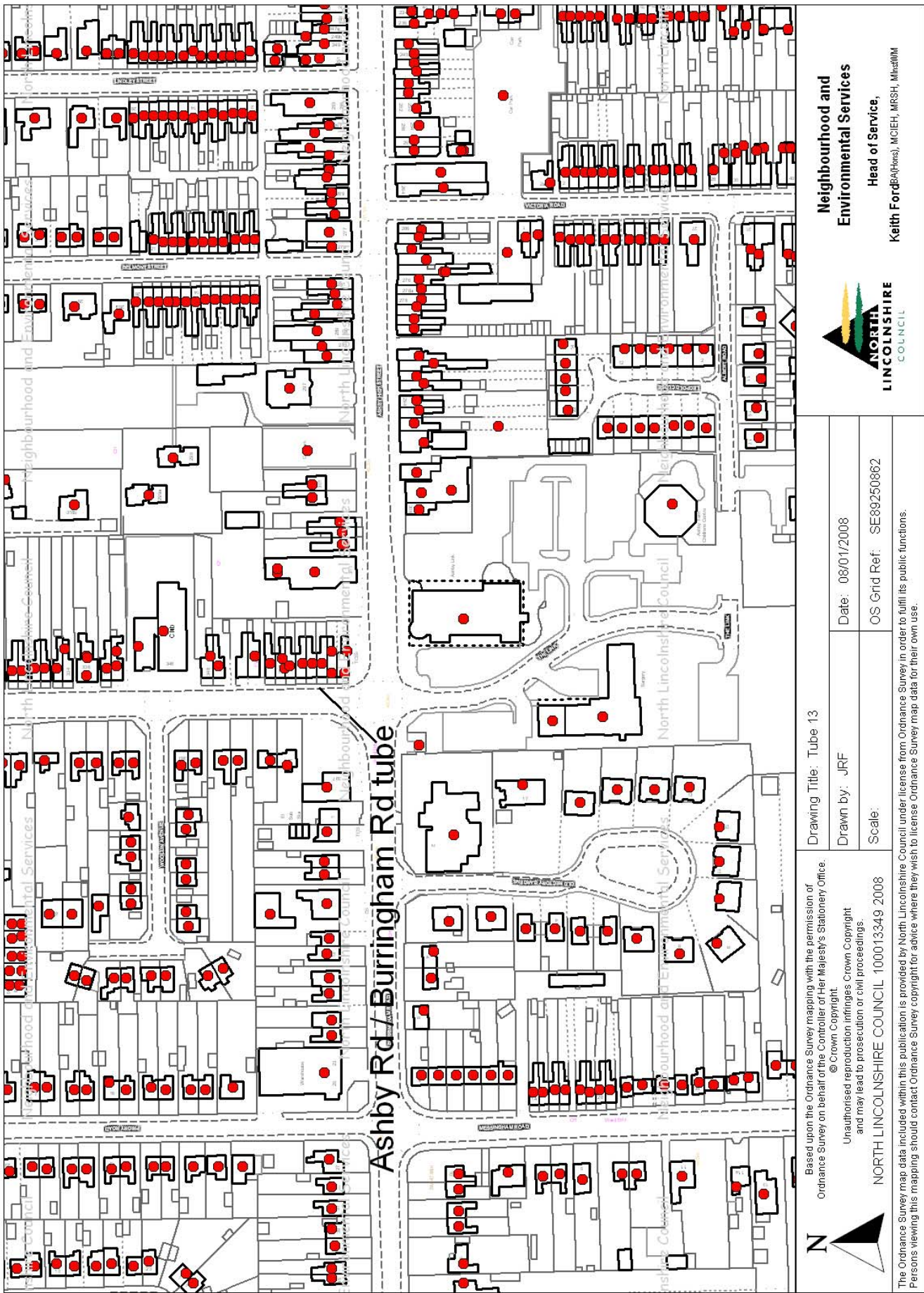
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Figure A12: The location of the second diffusion tube (LP695) on Humber Road.



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<p>Drawing Title: Tube 7</p>		<p>Date: 08/01/2008</p>	
<p>Drawn by: JRF</p>		<p>OS Grid Ref: SE8721118</p>	
<p>Scale:</p>			

Figure A13: The new location of the Scotter Road diffusion tube.



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Figure A14: The location of the Ashby Road / Burringham Road diffusion tube.

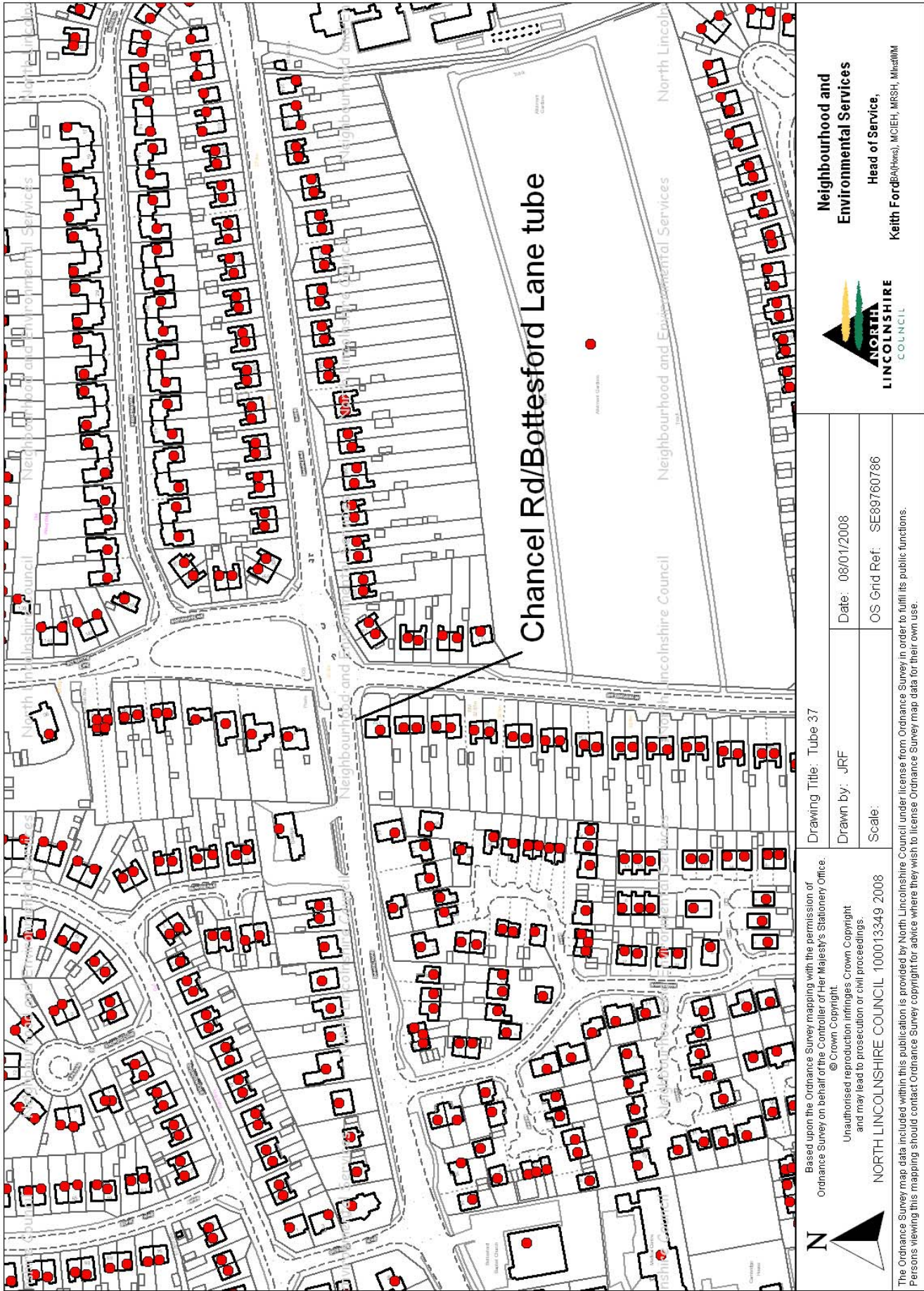
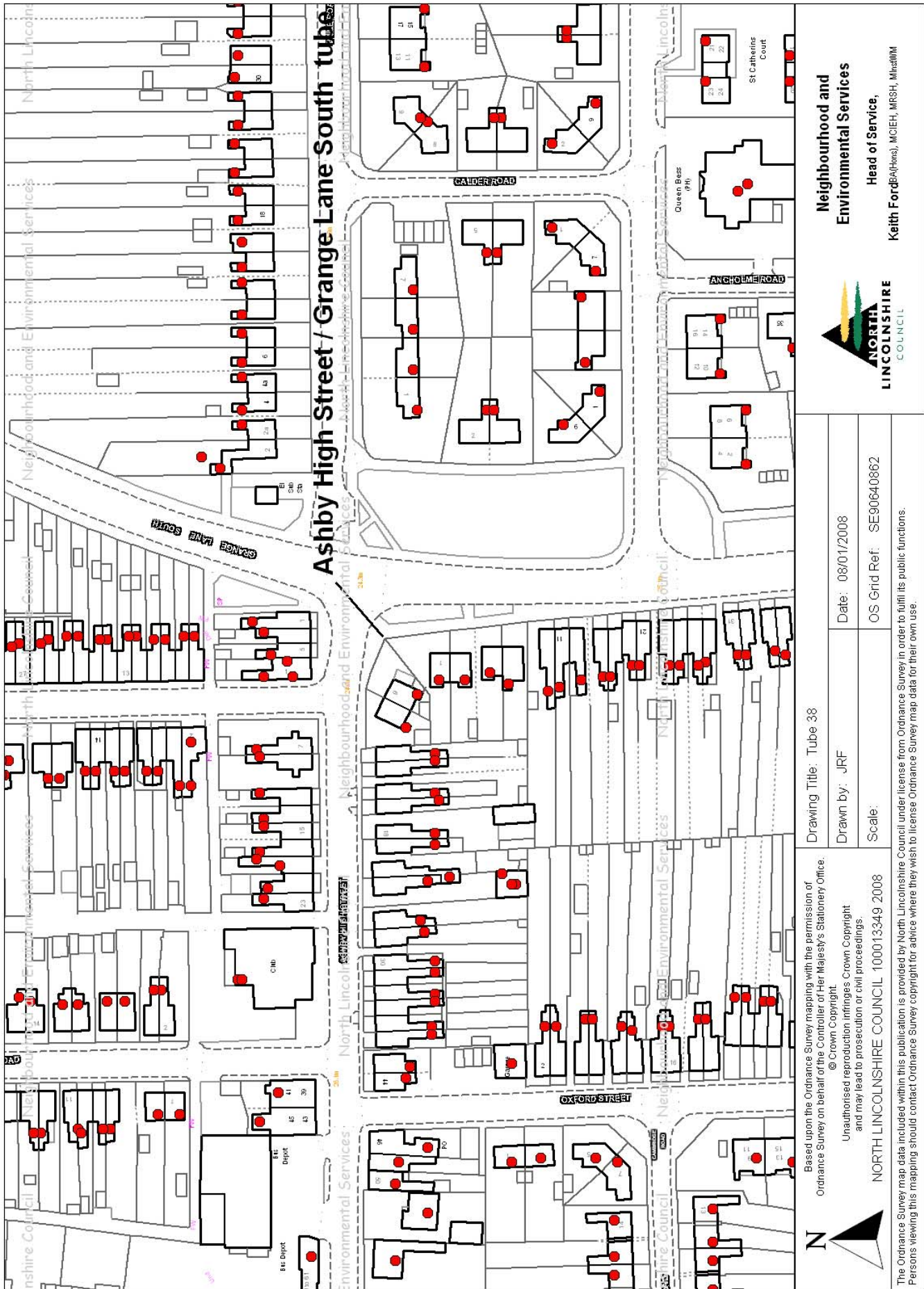


Figure A15: The location of the Chancel Road / Bottesford Lane diffusion tube.



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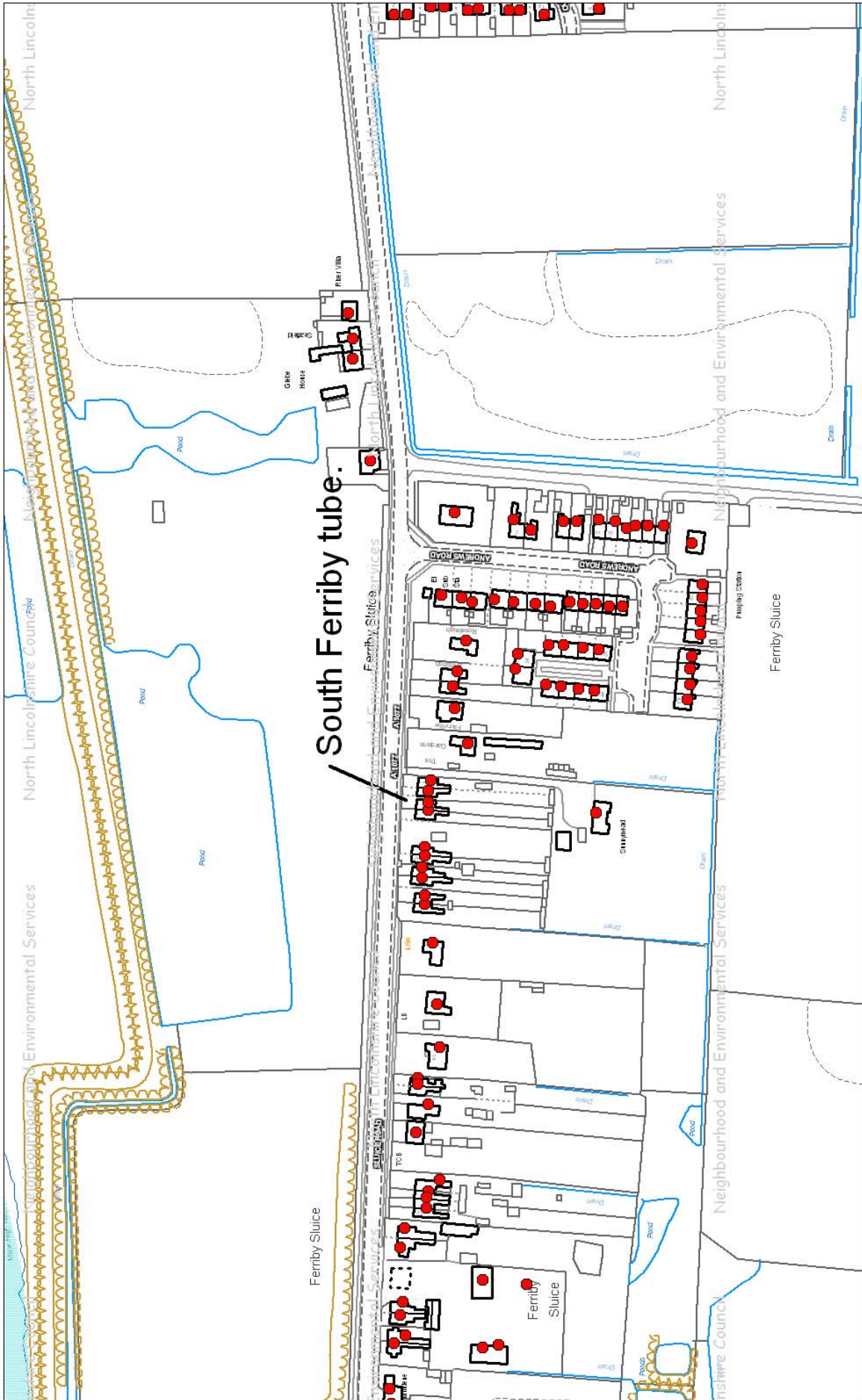
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Drawing Title: Tube 38	Date: 08/01/2008
Drawn by: JRF	OS Grid Ref: SE90640862
Scale:	

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Figure A16: The location of the Ashby High Street / Grange Lane South diffusion tube.





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	<p>Date: 28/03/2008</p>
<p>Drawn by: JRF</p>	<p>OS Grid Ref: SE98012102</p>
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Figure A17: The location of the South Ferriby diffusion tube.