

Location of Measurement	Start Time	Duration mm:ss	L_{AFmax} (dB)	L_{Aeq,T} (dB)	L_{A90,T} (dB)	
ST7 – Yapton Road	06/02/2020 14:35	15:00	77	66	53	
	06/02/2020 14:51	15:00	88	67	54	
	06/02/2020 18:55	15:00	83	66	53	
	06/02/2020 19:10	15:00	83	65	52	

APPENDIX 4 DEMOLITION AND CONSTRUCTION NOISE ASSESSMENT

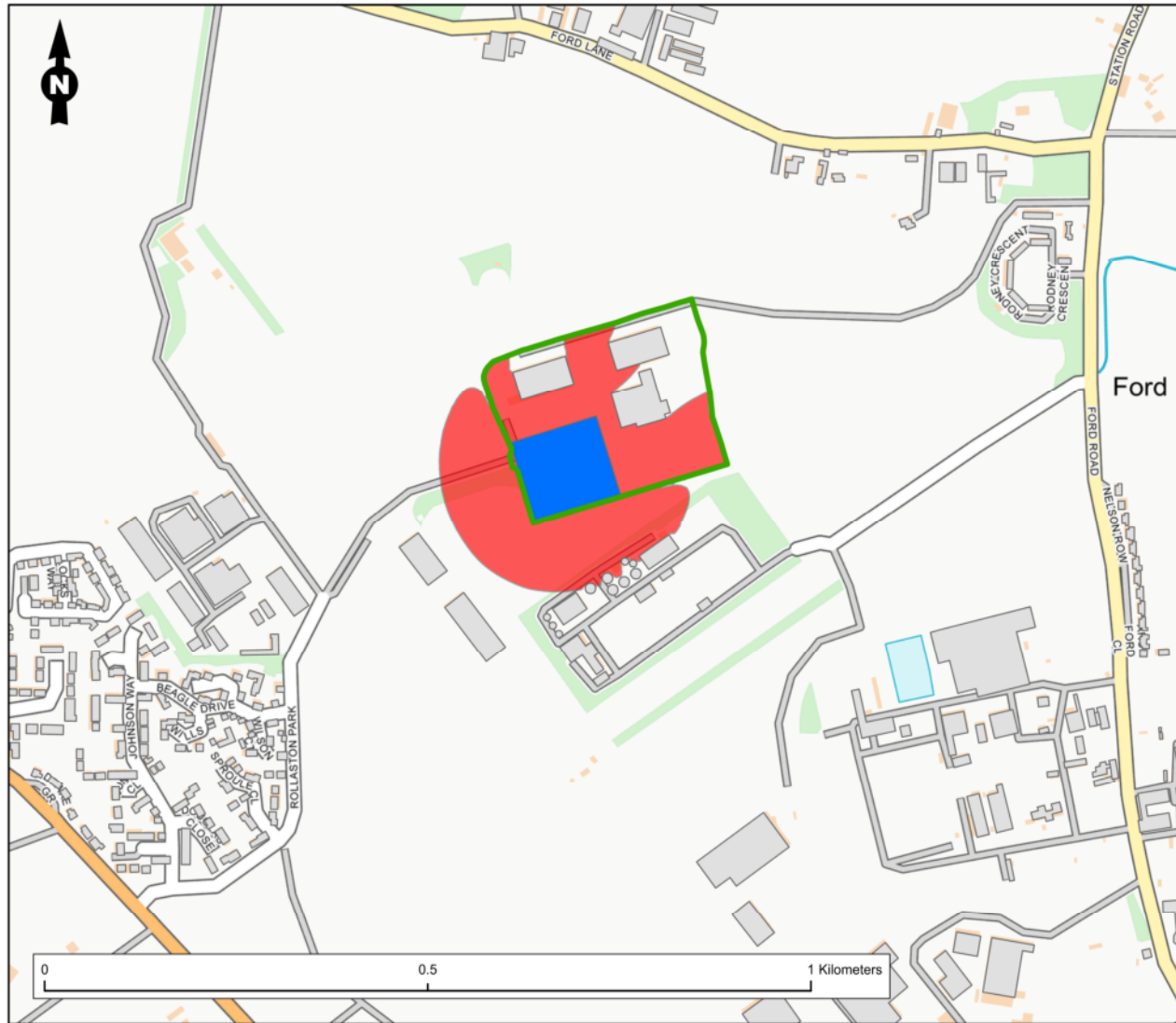
Input Plant

Activity	Plant	BS5228 Source Data	No	Typical Noise Level at 10 m for One Plant Item dB(A)	% On Time	Noise Level per Activity dB(A) at 10 m
Demolition	Dozer	C 8.6	2	85	20	97
	Backhoe mounted hydraulic breaker	C 5.1	2	91	30	
	Compressor	C 5.5	2	84	30	
	Wheeled Loader	C 2.26	2	89	50	
	Hand-held Breaker	C 1.6	2	89	30	
	Excavator (tracked)	C 1.16	2	85	50	
	Dumper	C 1.11	2	94	33	
	Hydraulic Cutters	C 1.7	1	95	20	
	Water Pump	C 2.46	1	81	50	
	Road Sweeper	C 4.90	1	83	10	
	Generator	C 4.84	1	80	100	
	Substructure	Mobile crane	C4.38	1	84	
Generator		C4.84	2	80	100	
Small excavator		C2.24	2	80	60	
Hammer		C1.19	2	74	50	
Dozer		C2.10	1	93	60	
Tracked excavator		C2.3	2	86	60	
Wheeled loader		C2.27	2	88	50	
Nail gun		C4.95	2	74	30	
Dump truck		C2.30	2	87	40	
Hydraulic hammer piling rig		C3.1	1	92	80	
Handheld breaker	C1.7	1	95	30		
Super-structure	Mobile crane	C4.38	2	84	50	95
	Small excavator	C2.24	2	80	60	
	Dozer	C2.10	1	93	60	

Activity	Plant	BS5228 Source Data	No	Typical Noise Level at 10 m for One Plant Item dB(A)	% On Time	Noise Level per Activity dB(A) at 10 m
	Tracked excavator	C2.3	2	86	60	
	Wheeled loader	C2.27	1	88	50	
	Dump truck	C2.30	1	87	40	
	Lifting platform	C4.57	2	80	40	
	Concrete pump	C4.32	1	82	20	
	Concrete mixer	C4.27	1	86	20	
	Poker vibrator	C4.33	1	86	30	
	Generator	C4.76	2	81	100	
Earthworks	Mobile crane	C4.46	2	79	50	93
	Small excavator	C2.24	2	80	60	
	Dozer	C2.10	1	93	60	
	Tracked excavator	C2.3	1	86	60	
	Wheeled loader	C2.27	1	88	50	
	Dump truck	C2.30	1	87	40	
External Works	Mobile telescopic crane	C4.46	2	79	50	94
	Lifting platform	C4.57	2	80	40	
	Tracked excavator	C2.3	1	82	50	
	Generator	C4.76	2	81	100	
	Compressor	C5.5	2	84	40	
	Asphalt paver & tipper lorry	C5.31	1	81	70	
	Vibratory roller	C5.25	1	83	70	
	Hand-held circular saw	C4.73	1	84	20	
	Dozer	C2.10	1	93	60	
	Dump truck	C2.30	1	87	40	

Activity	Plant	Source Data Ref	Typical Noise Level at 10 m for One Plant Item Operating dB(A)
Construction Traffic	Lorry 44t	C11.4	83

Scenario 1: Build WSTF



Legend

- Buildings
- Assumed work areas
- ≥ 55 dB LAeq,T construction noise levels
- Hoarding 2.4m height

Figure Title
Scenario 1 - Build WSTF

Project Name
Ford ERF and WSTF, Ford Circular Technology Park

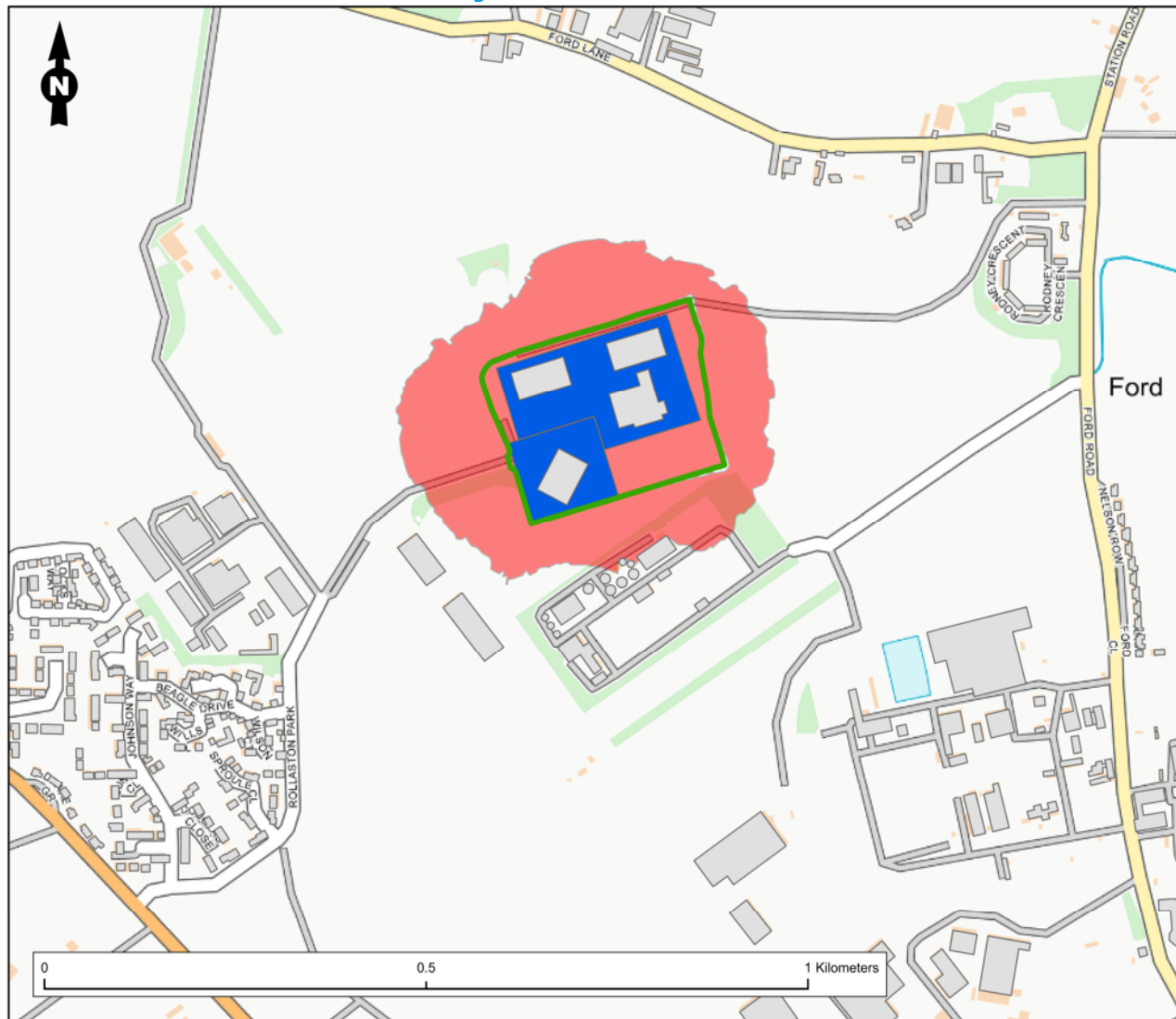
Project Number	Figure No.
1620007820	1
Date	Prepared By
February 2021	MB
Scale	Issue
1:7,000 @A4	1

Client
Ford EfW Ltd

RAMBOLL

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Scenario 2: Build WSTF and Demolish Existing WTS



Legend

- Buildings
- Assumed work areas
- ≥ 55 dB LAeq,T construction noise levels
- Hoarding 2.4m height

Figure Title
Scenario 2 - Build WSTF and demolish existing WTS

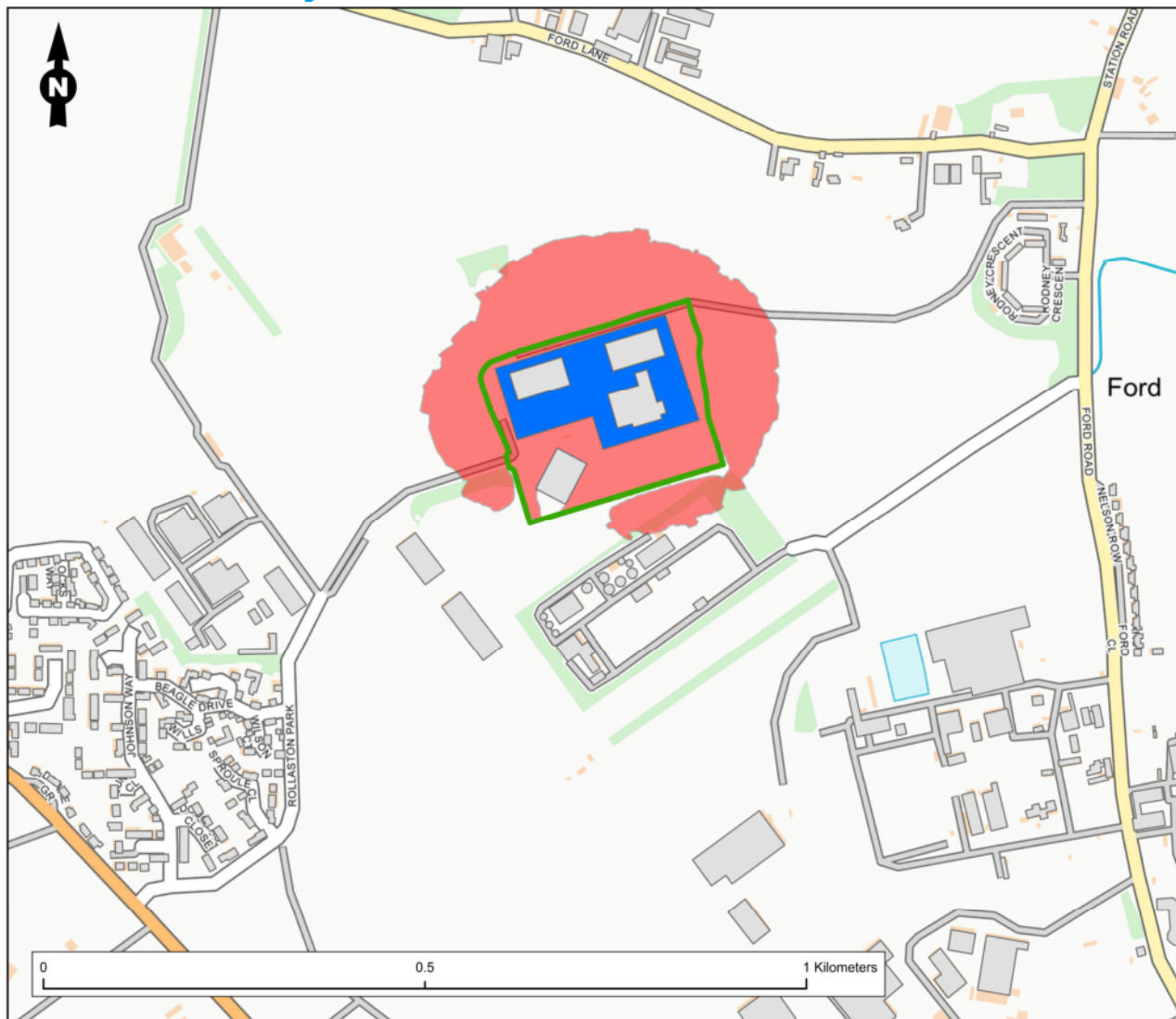
Project Name
Ford ERF and WSTF, Ford Circular Technology Park

Project Number	Figure No.
1620007820	2
Date	Prepared By
February 2021	MB
Scale	Issue
1:7,000 @A4	1

Client
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Scenario 3: Demolish Existing WTS



Legend


- Buildings
- Assumed work areas
- ≥ 55 dB LAeq,T construction noise levels
- Hoarding 2.4m height

Figure Title
Scenario 3 - Demolish existing WTS

Project Name
Ford ERF and WSTF, Ford Circular Technology Park

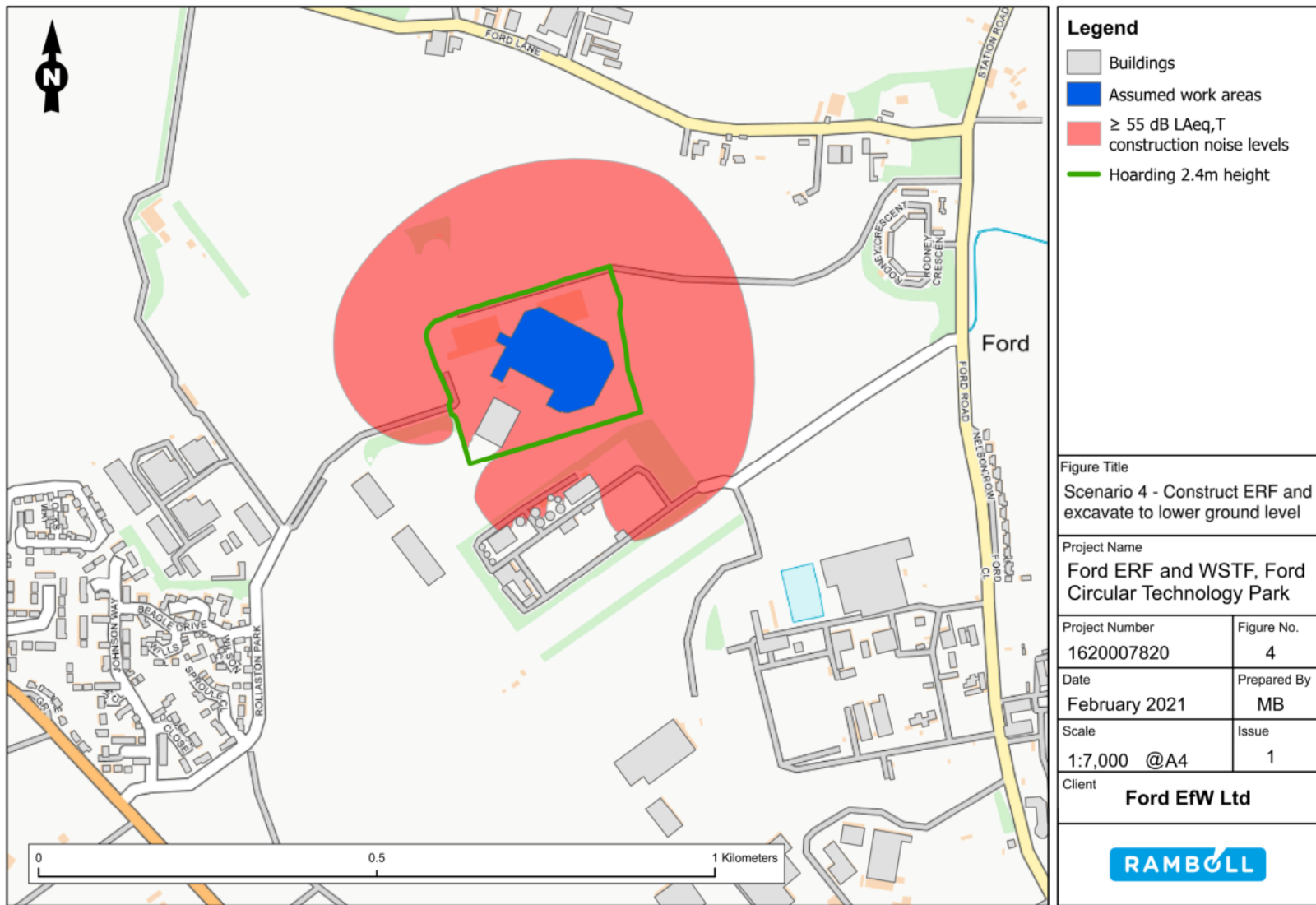
Project Number 1620007820	Figure No. 3
Date February 2021	Prepared By MB
Scale 1:7,000 @A4	Issue 1

Client
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Scenario 4: Construct ERF and Excavate to Lower Ground Level



Legend

- Buildings
- Assumed work areas
- ≥ 55 dB LAeq,T construction noise levels
- Hoarding 2.4m height

Figure Title
Scenario 4 - Construct ERF and excavate to lower ground level

Project Name
Ford ERF and WSTF, Ford Circular Technology Park

Project Number	Figure No.
1620007820	4

Date	Prepared By
February 2021	MB

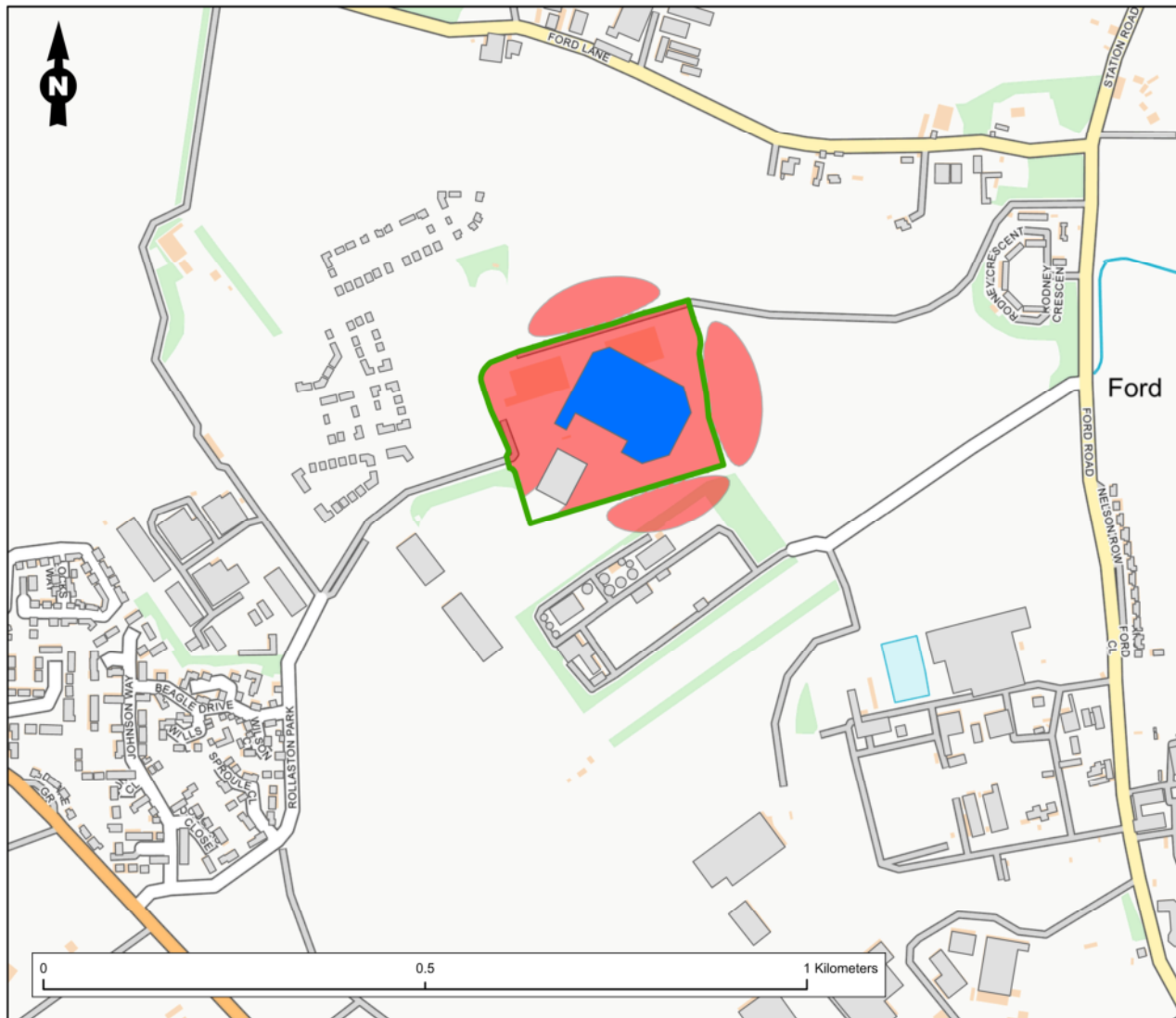
Scale	Issue
1:7,000 @A4	1

Client
Ford EfW Ltd



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Scenario 5: Construct ERF



Legend

- Buildings
- Assumed work areas
- ≥ 55 dB LAeq,T construction noise levels
- Hoarding 2.4m height

Figure Title
Scenario 5 - Construct ERF

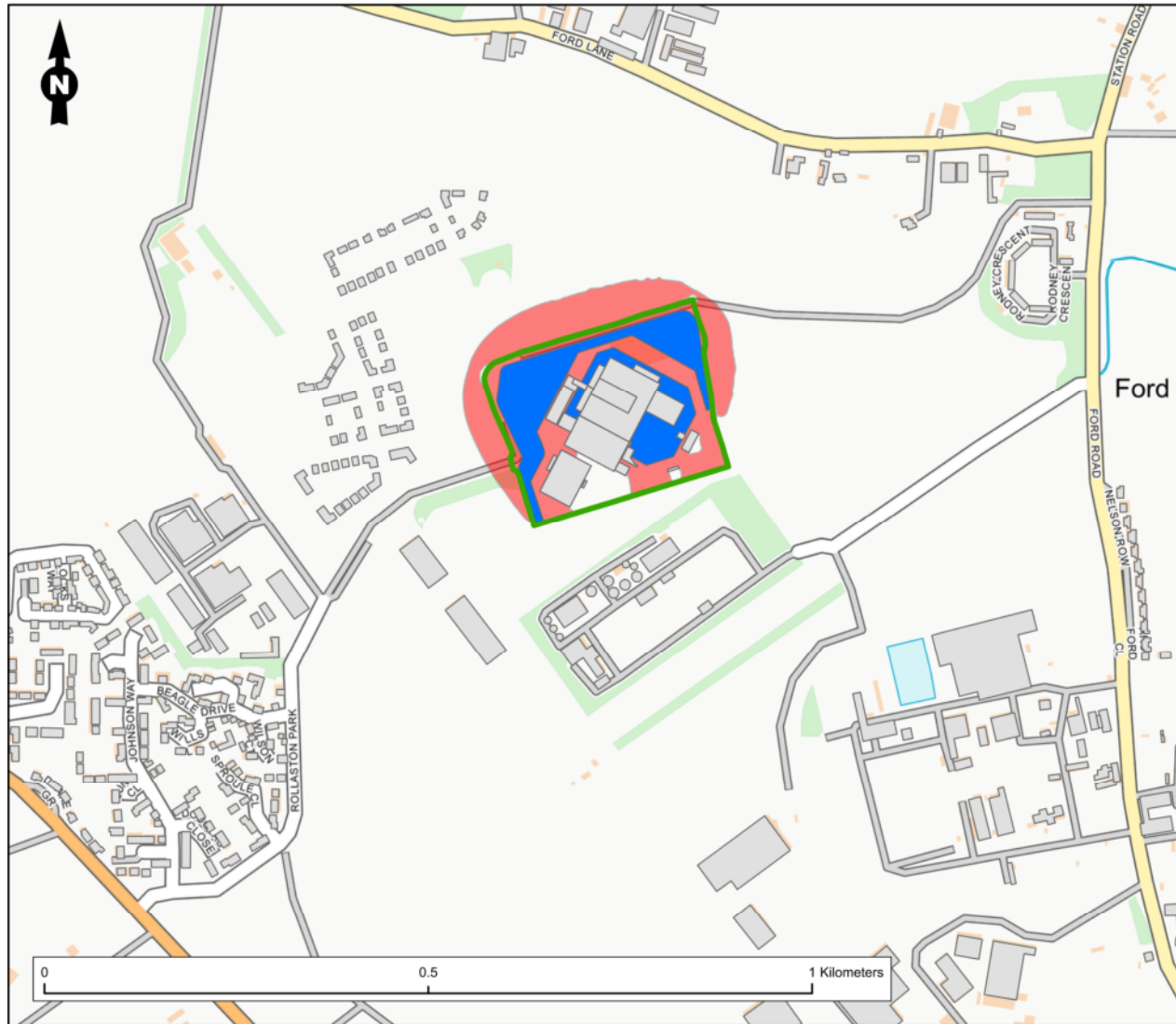
Project Name
Ford ERF and WSTF, Ford Circular Technology Park

Project Number	Figure No.
1620007820	5
Date	Prepared By
February 2021	MB
Scale	Issue
1:7,000 @A4	1

Client
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Scenario 6: Construct ERF and Landscaping



Legend

- Buildings
- Assumed work areas
- ≥ 55 dB LAeq,T construction noise levels
- Hoarding 2.4m height

Figure Title
Scenario 6 - Construct ERF and landscaping

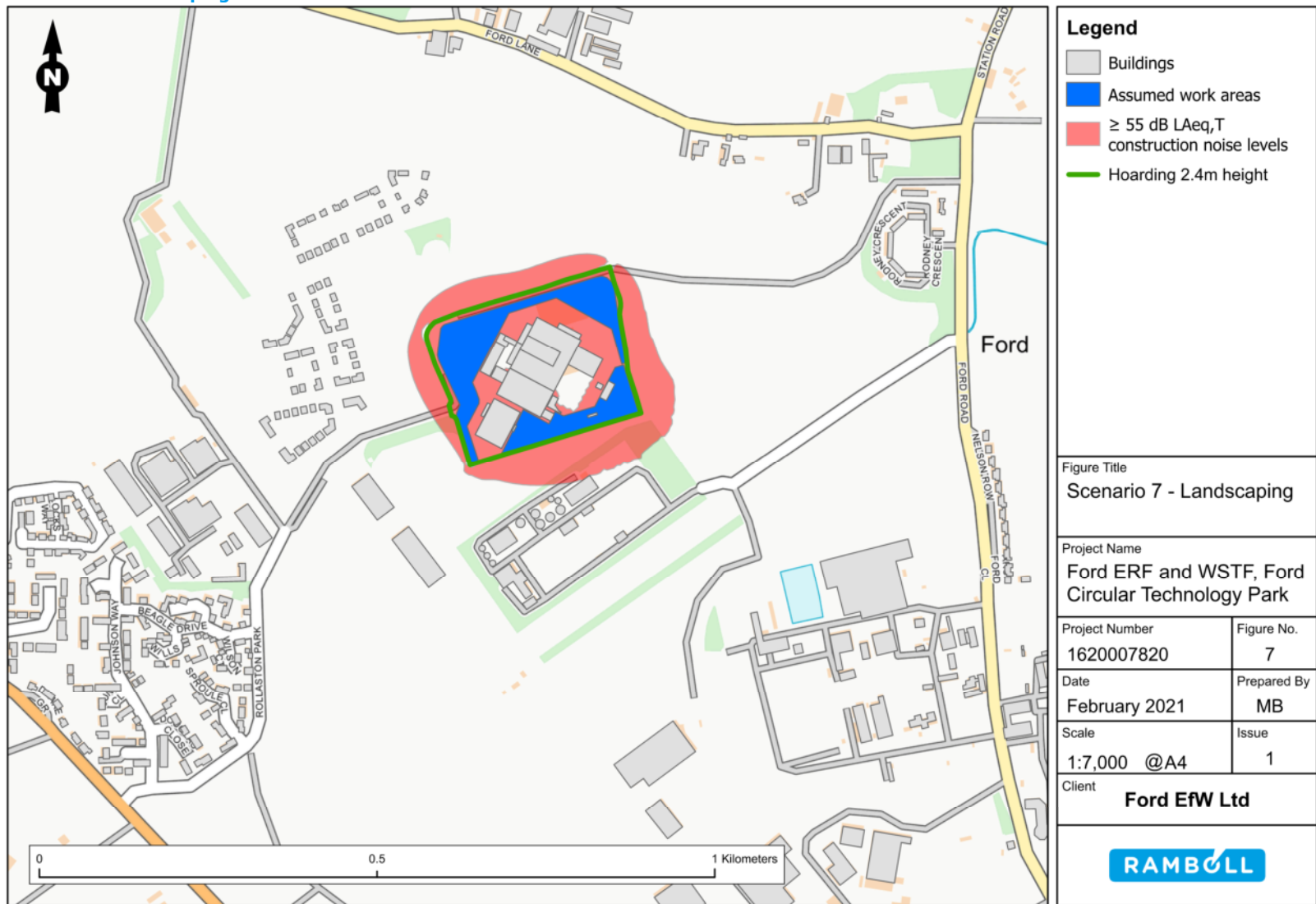
Project Name
Ford ERF and WSTF, Ford Circular Technology Park

Project Number 1620007820	Figure No. 6
Date February 2021	Prepared By MB
Scale 1:7,000 @A4	Issue 1

Client
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Scenario 7: Landscaping



Legend

- Buildings
- Assumed work areas
- ≥ 55 dB LAeq,T construction noise levels
- Hoarding 2.4m height

Figure Title
Scenario 7 - Landscaping

Project Name
Ford ERF and WSTF, Ford Circular Technology Park

Project Number	Figure No.
1620007820	7

Date	Prepared By
February 2021	MB

Scale	Issue
1:7,000 @A4	1

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