

Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- 150m Buffer of Site
- Buildings
- RECxxx Residential Receptor
- COMxxx Commercial Receptor
- Inferred Zone Boundary

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Project
KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.1 - LOCATION OF KEY RESIDENTIAL AND COMMERCIAL RECEPTORS WITHIN 150M OF THE SITE

Drawing Status
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Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client Name	6286	
Drawing No.	32EW5604-805 P2	

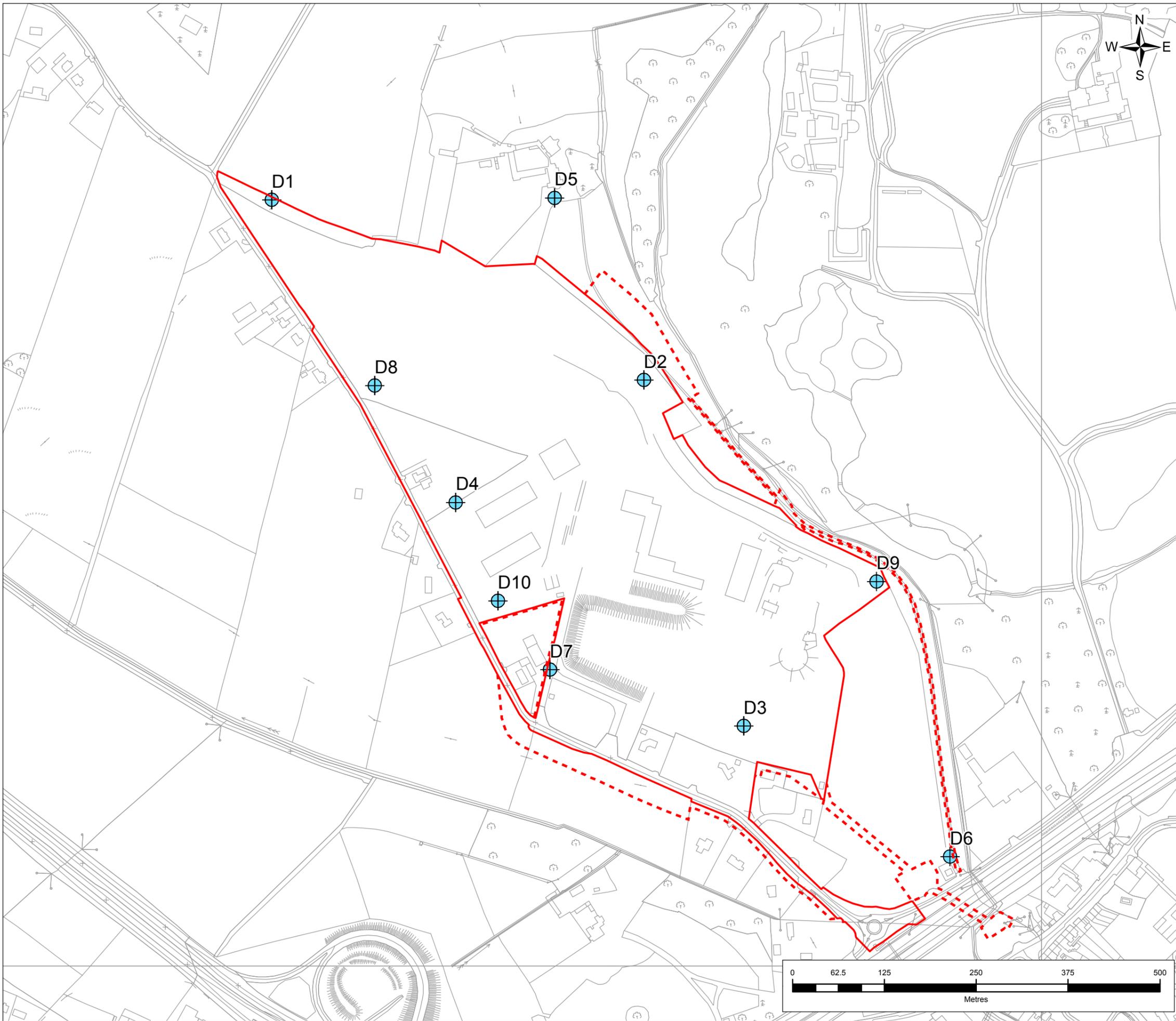
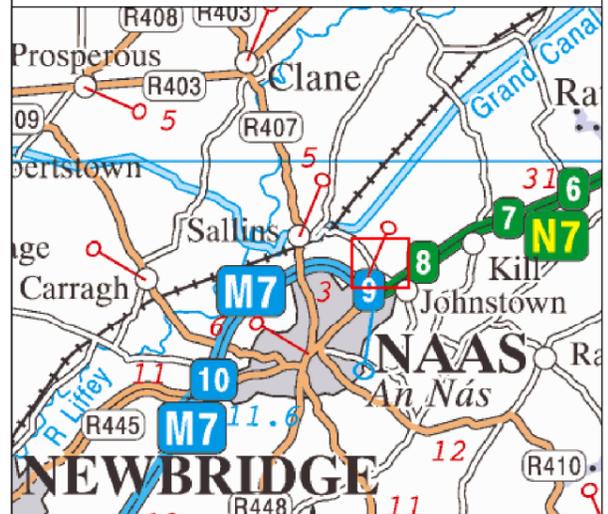


FIGURE 7.2



- Legend**
- Proposed CPO Boundary
 - Proposed Temporary CPO Boundary
 - ⊕ Air Quality Monitoring Locations

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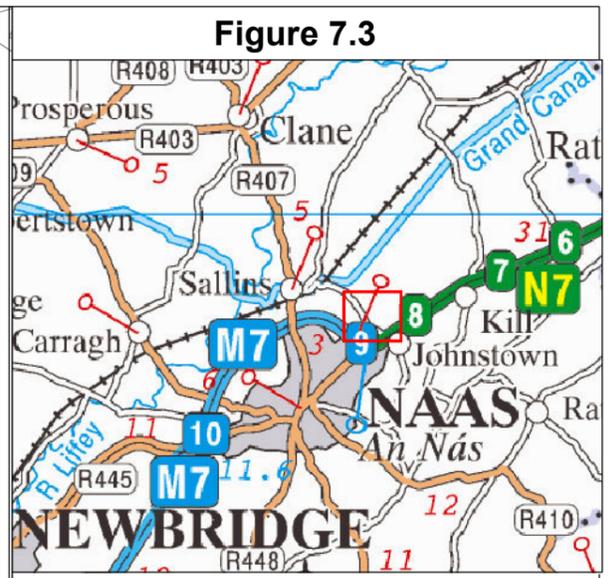
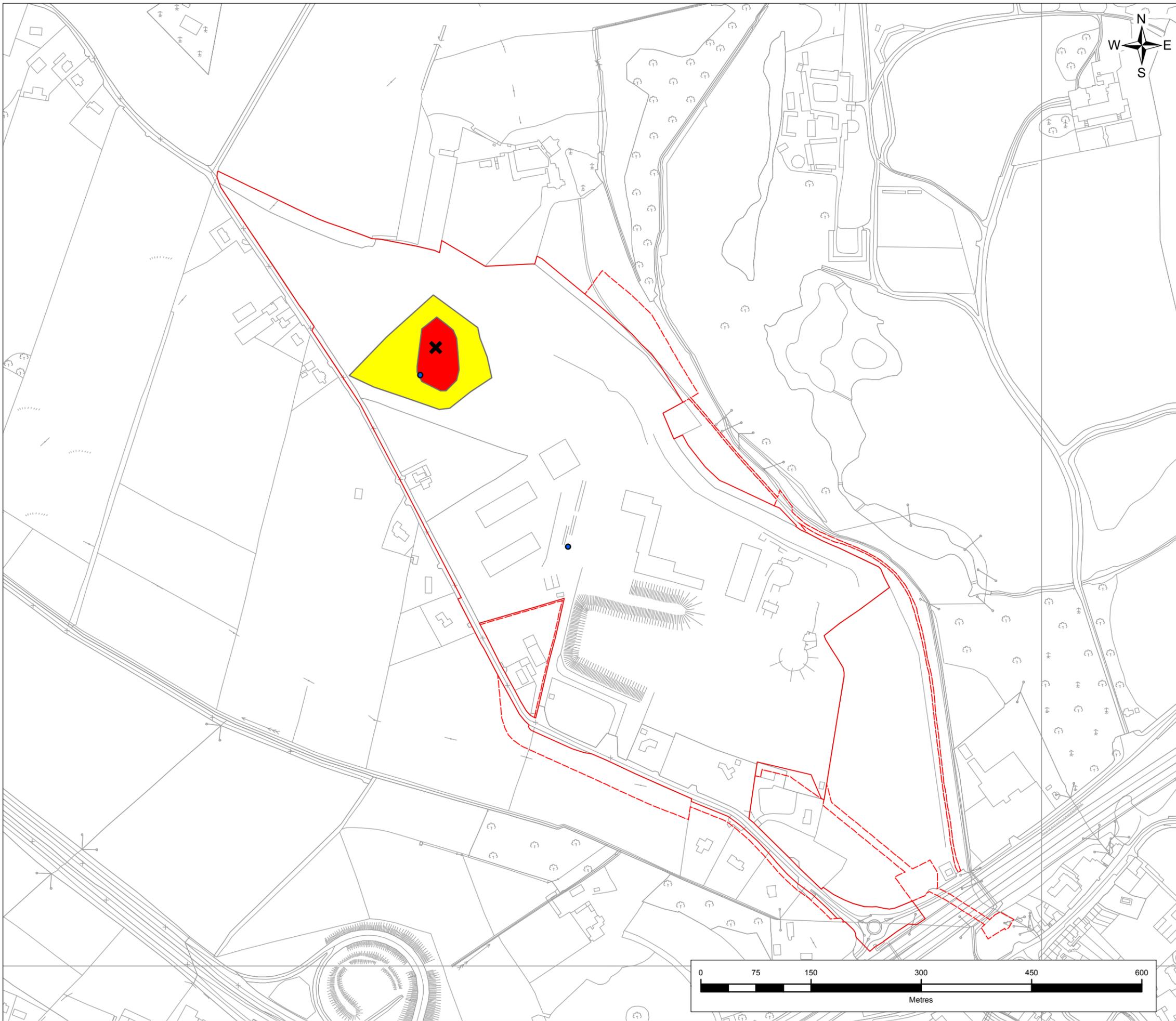
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Drawing Title
FIGURE 7.2 - AIR QUALITY MONITORING LOCATIONS

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Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-806 P1	Rev 1

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $50\mu\text{g}/\text{m}^3$

- X Maximum level attained, including background is $10.4\mu\text{g}/\text{m}^3$ (21% of AQS)
- $10.1\mu\text{g}/\text{m}^3$
- $10.0\mu\text{g}/\text{m}^3$

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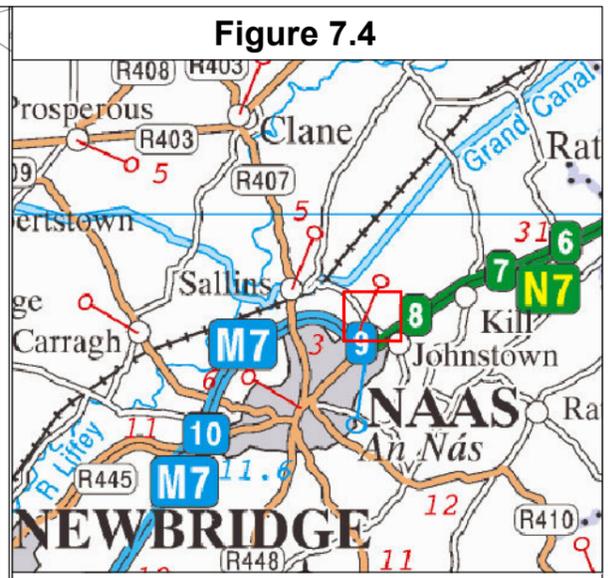
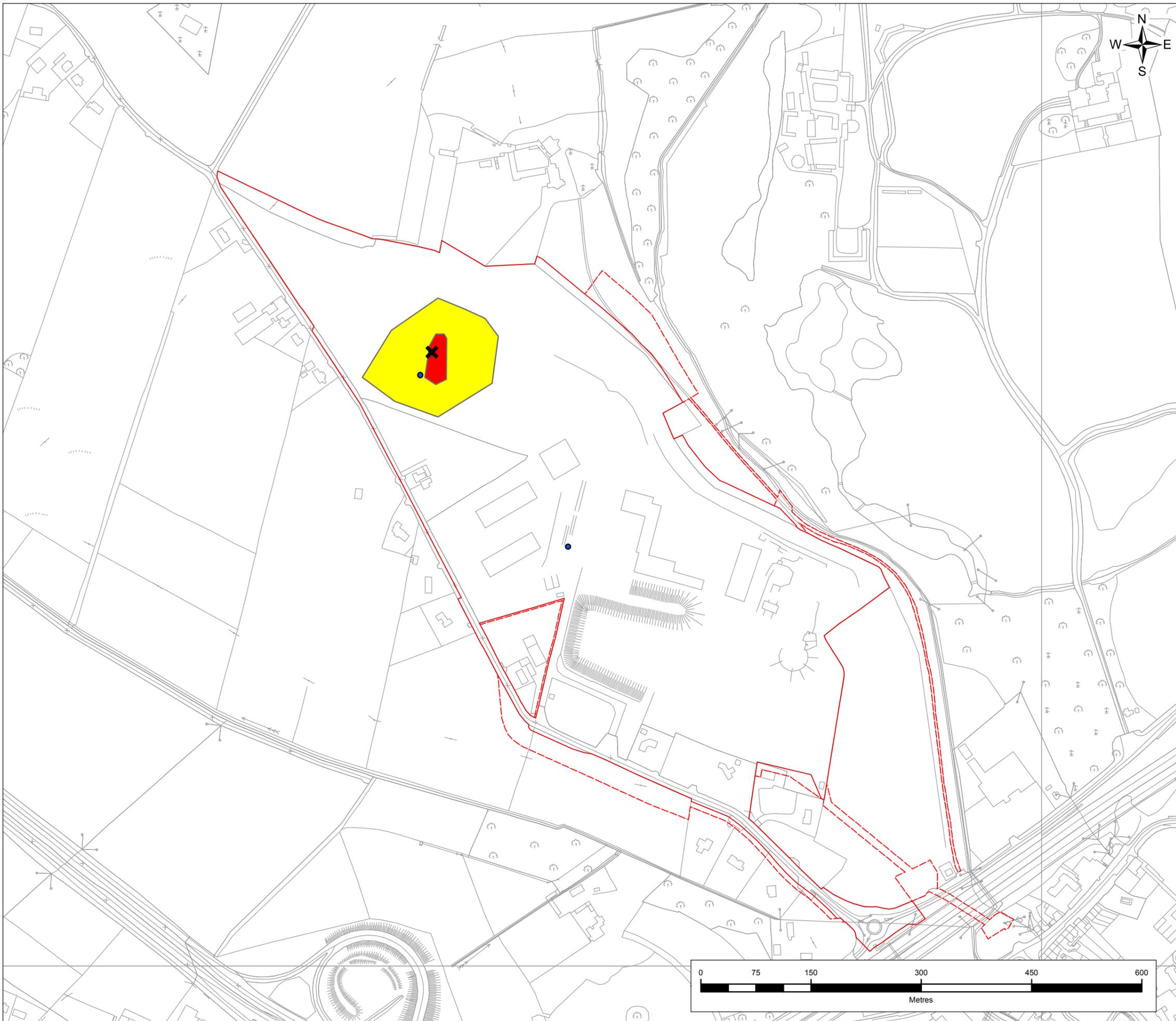
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Drawing Title
 FIGURE 7.3 - ISOPLETH SHOWING THE PREDICTED 90.4 PERCENTILE OF 24-HOUR GROUND LEVEL CONCENTRATION OF PM_{10} AS A RESULT OF EMISSIONS FROM THE EXISTING 250M^3 FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $40\mu\text{g}/\text{m}^3$

- X Maximum level attained, including background is $10.1\mu\text{g}/\text{m}^3$ (25% of AQS)
- $10.1\mu\text{g}/\text{m}^3$
- $10.0\mu\text{g}/\text{m}^3$

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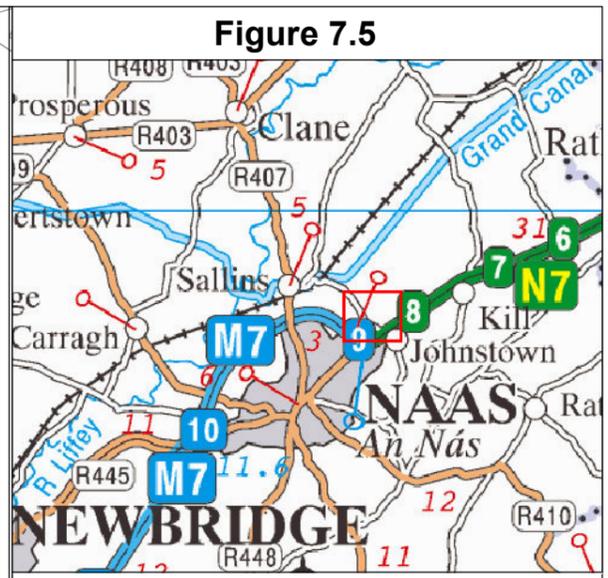
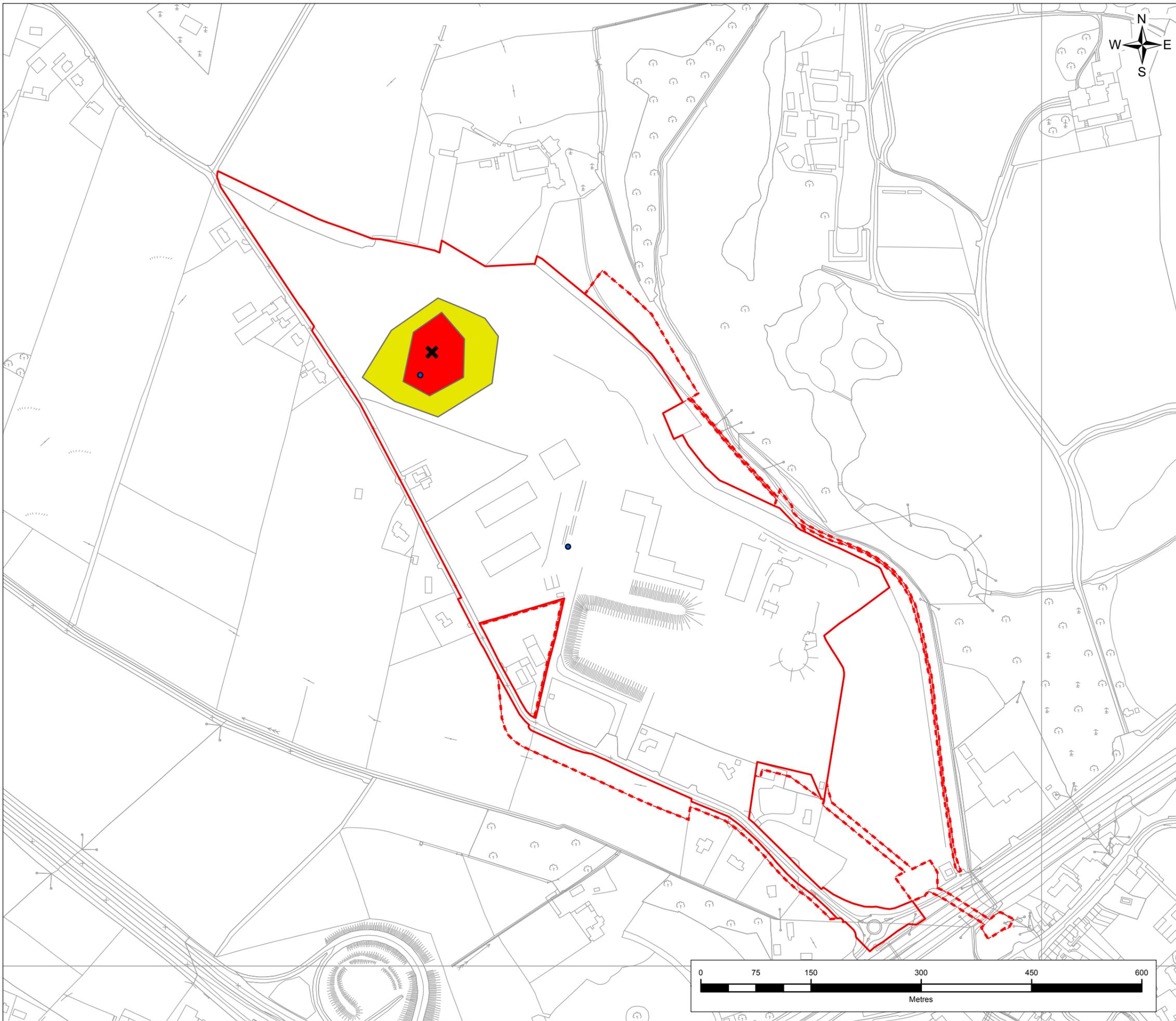
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Drawing Title
FIGURE 7.4 - ISOPLETH SHOWING THE PREDICTED ANNUAL MEAN GROUND LEVEL CONCENTRATION OF PM_{10} AS A RESULT OF EMISSIONS FROM THE EXISTING 250M^3 FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $25\mu\text{g}/\text{m}^3$
($20\mu\text{g}/\text{m}^3$ to be achieved by 2020)

- X Maximum level attained, including background is $6.1\mu\text{g}/\text{m}^3$ (25% of AQS)
- $6.1\mu\text{g}/\text{m}^3$
- $6.0\mu\text{g}/\text{m}^3$

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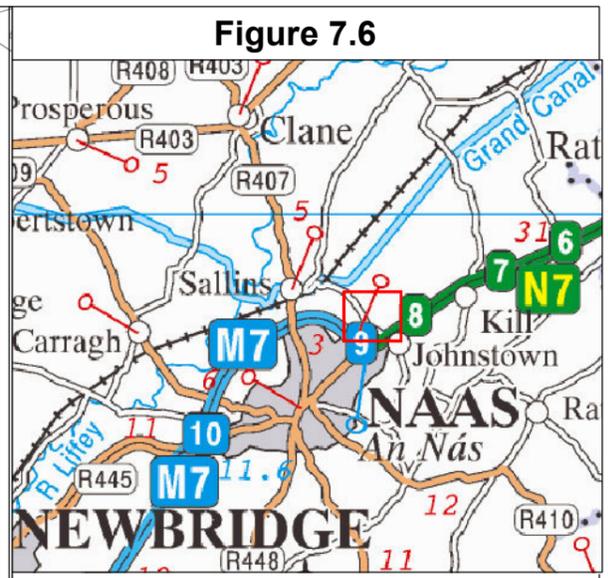
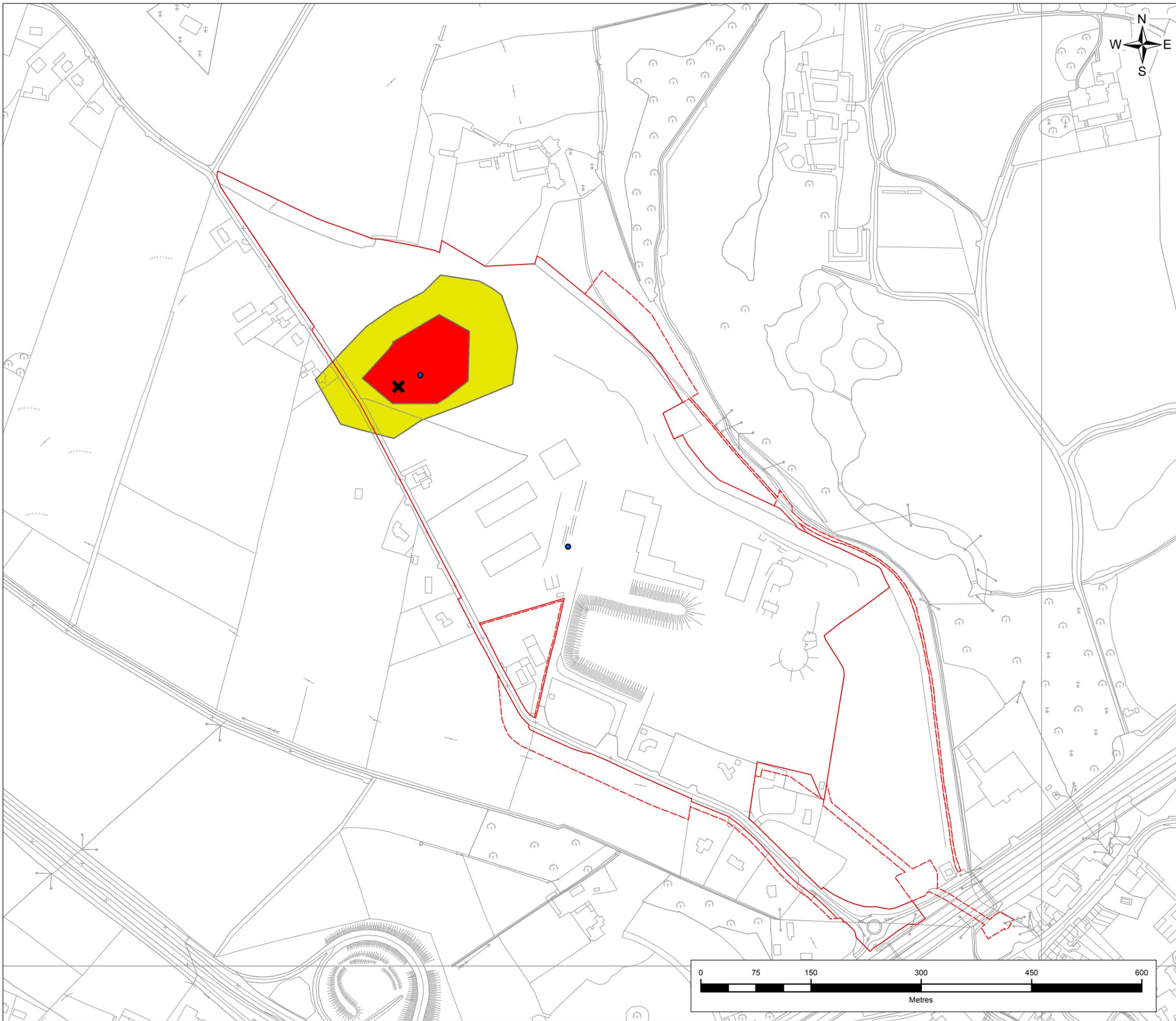
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Drawing Title
FIGURE 7.5: ISOPLETH SHOWING THE PREDICTED ANNUAL MEAN GROUND LEVEL CONCENTRATION OF $\text{PM}_{2.5}$ AS A RESULT OF EMISSIONS FROM THE EXISTING 250M^3 FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $350\mu\text{g}/\text{m}^3$

- X Maximum level attained, including background is $133\mu\text{g}/\text{m}^3$ (38% of AQS)
- $74\mu\text{g}/\text{m}^3$
- $54\mu\text{g}/\text{m}^3$

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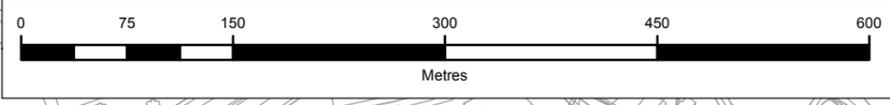
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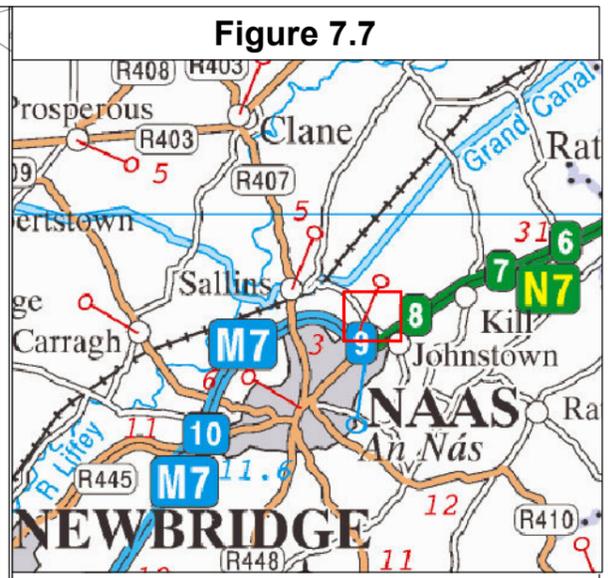
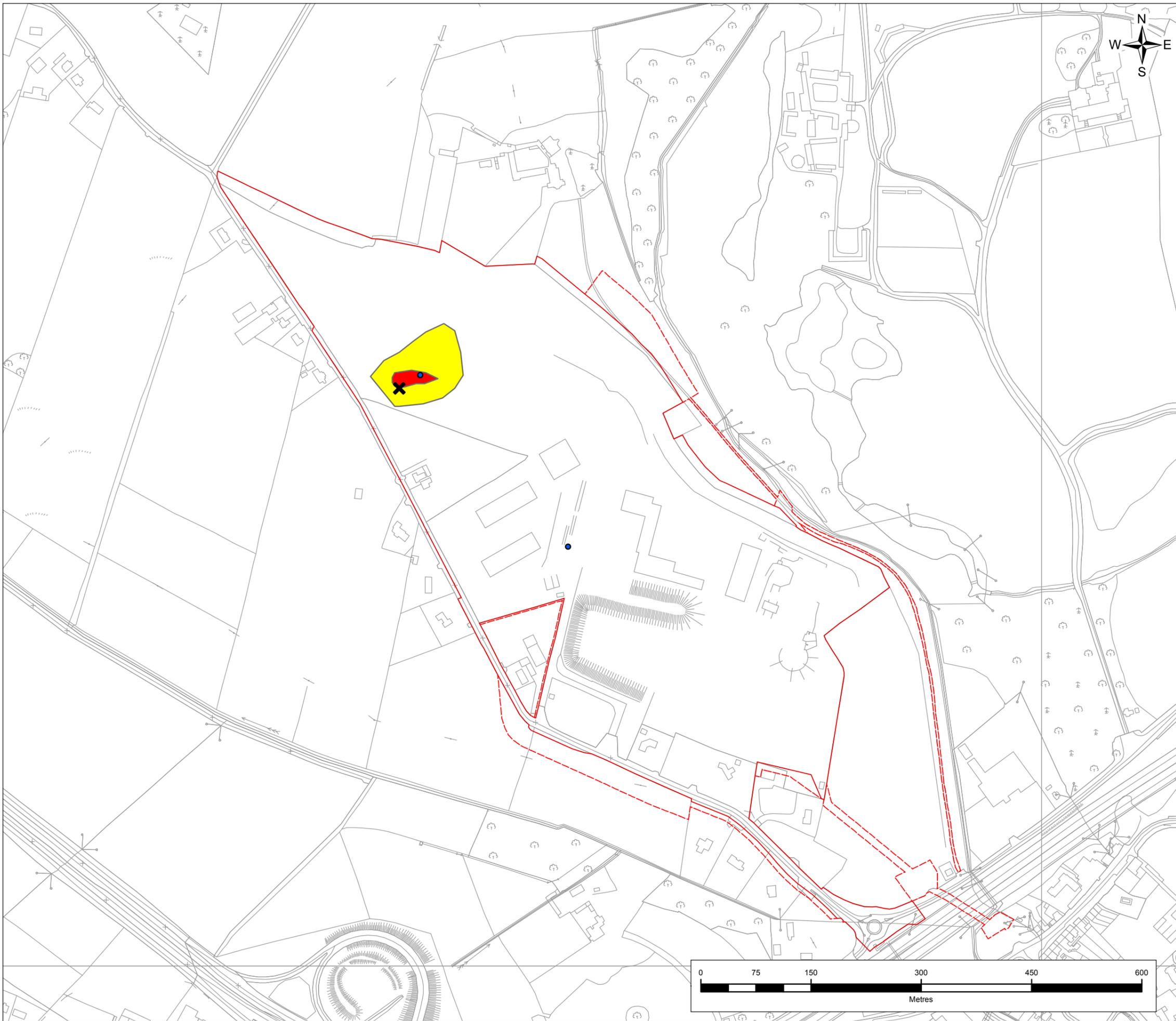
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Drawing Title
 FIGURE 7.6 - ISOPLETH SHOWING THE PREDICTED 99.7 PERCENTILE OF 1-HOUR GROUND LEVEL CONCENTRATION OF SO₂ AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

Scale @ A3	1:5,000	DO NOT SCALE
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Client No.	6286	
Drawing No.	32EW5604-836 P2	





Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $125\mu\text{g}/\text{m}^3$

- Maximum level attained, including background is $57\mu\text{g}/\text{m}^3$ (46% of AQS)
- $40\mu\text{g}/\text{m}^3$
- $27\mu\text{g}/\text{m}^3$

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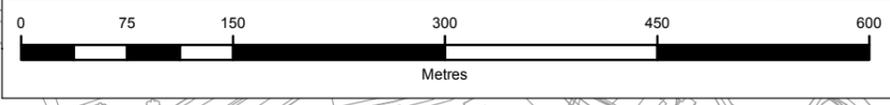
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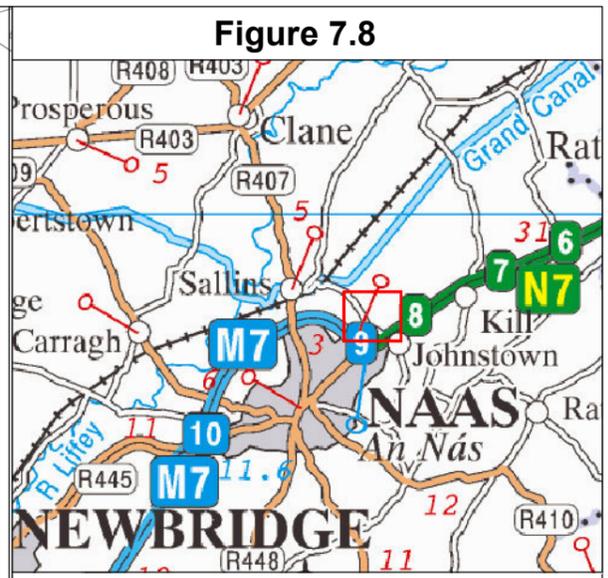
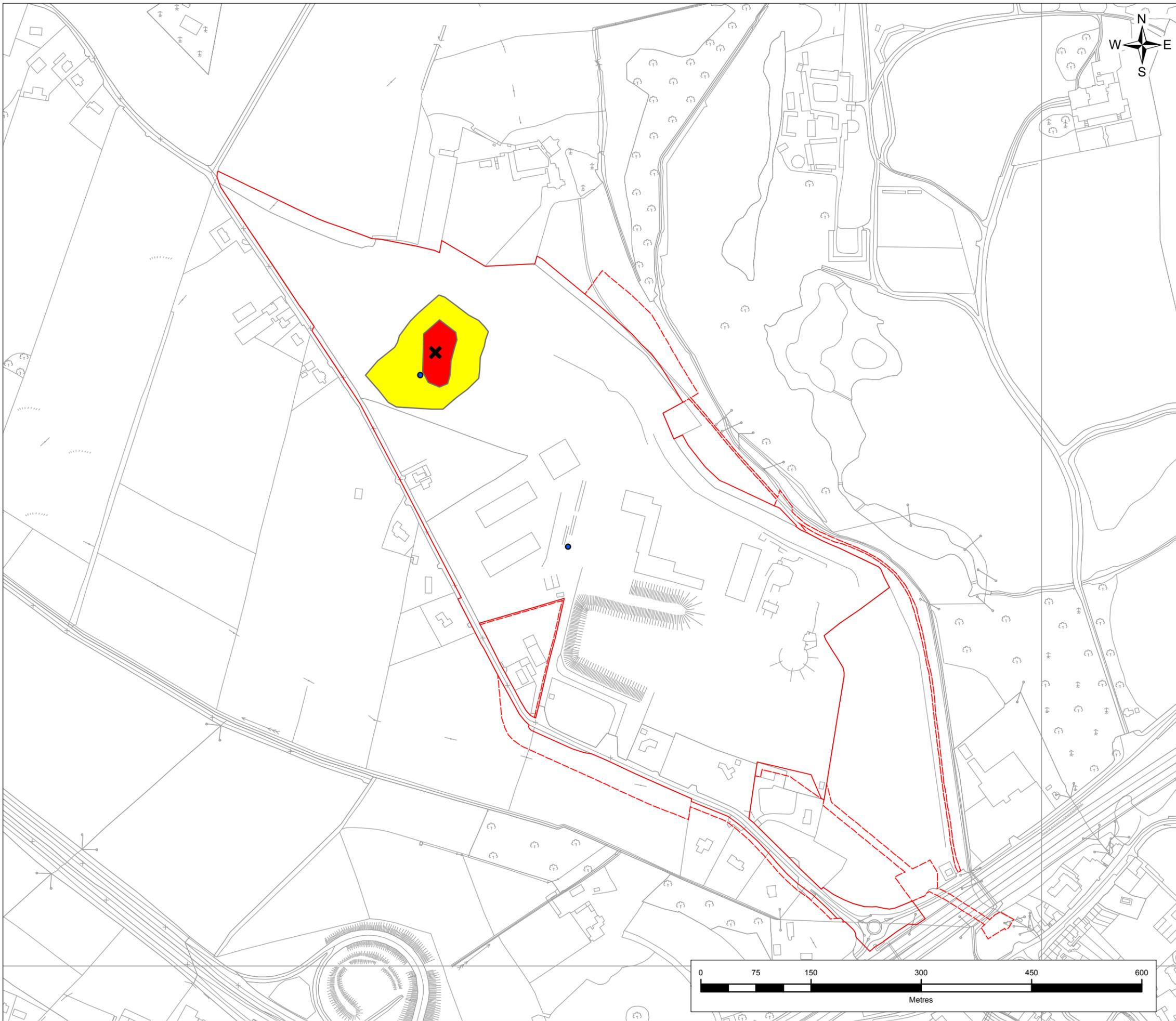
Project
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Drawing Title
 FIGURE 7.7 - ISOPLETH SHOWING THE PREDICTED 99.2 PERCENTILE OF 24-HOUR GROUND LEVEL CONCENTRATION OF SO₂ AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-837 P1	





Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $20\mu\text{g}/\text{m}^3$

- X Maximum level attained, including background is $9\mu\text{g}/\text{m}^3$ (46% of AQS)
- $11\mu\text{g}/\text{m}^3$
- $7\mu\text{g}/\text{m}^3$

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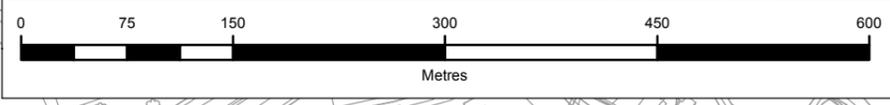
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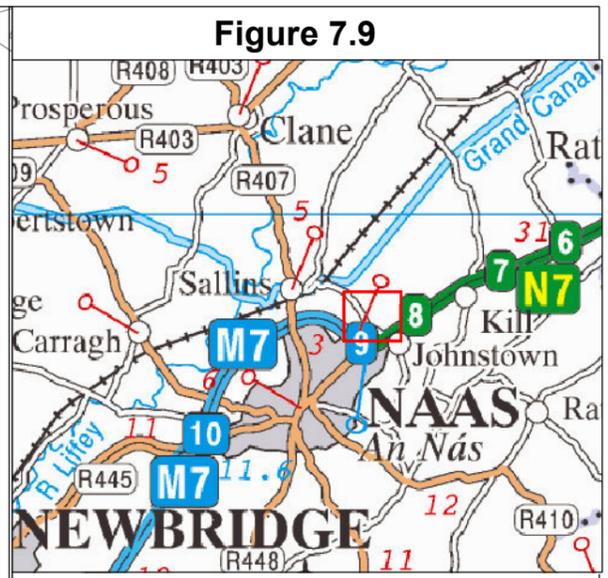
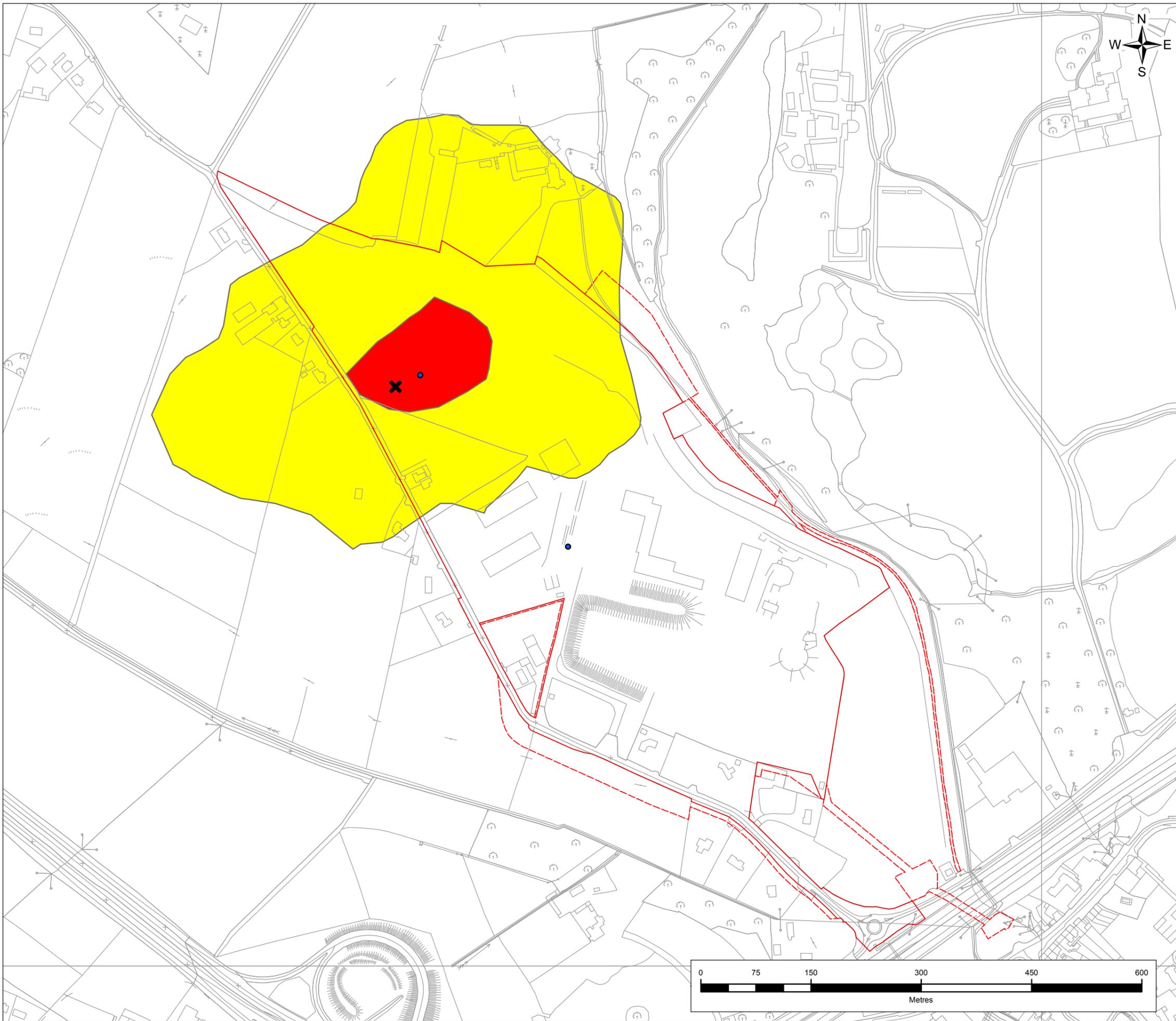
Drawing Title
 FIGURE 7.8 - ISOPLETH SHOWING THE PREDICTED ANNUAL MEAN GROUND LEVEL CONCENTRATION OF SO₂ AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $200\mu\text{g}/\text{m}^3$

- Maximum level attained, including background is $8.8\mu\text{g}/\text{m}^3$ (4% of AQS)
- $7.5\mu\text{g}/\text{m}^3$
- $6.5\mu\text{g}/\text{m}^3$

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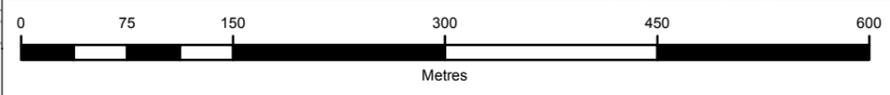
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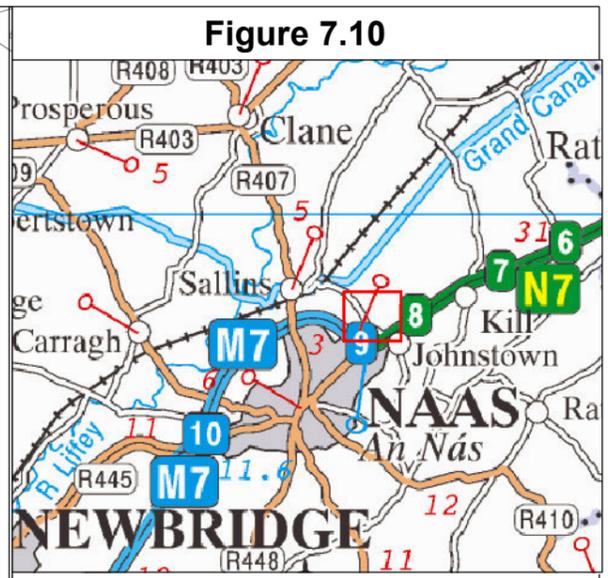
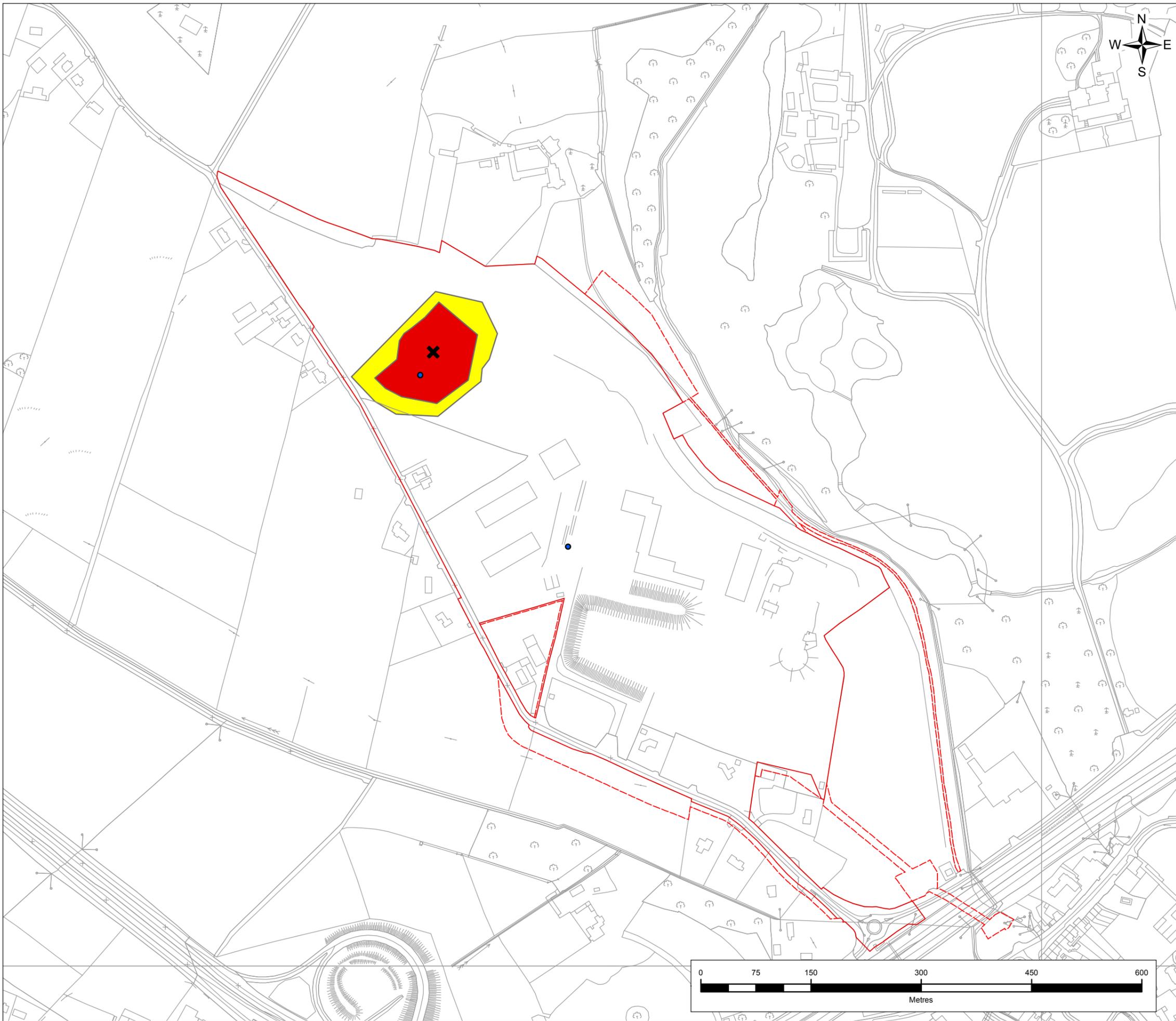
Drawing Title
FIGURE 7.9 - ISOPLETH SHOWING THE PREDICTED 99.8 PERCENTILE OF 1-HOUR GROUND LEVEL CONCENTRATION OF NO₂ AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $40\mu\text{g}/\text{m}^3$

- X Maximum level attained, including background is $3.4\mu\text{g}/\text{m}^3$ (9% of AQS)
- $3.1\mu\text{g}/\text{m}^3$
- $3.0\mu\text{g}/\text{m}^3$

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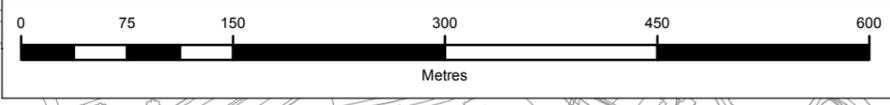
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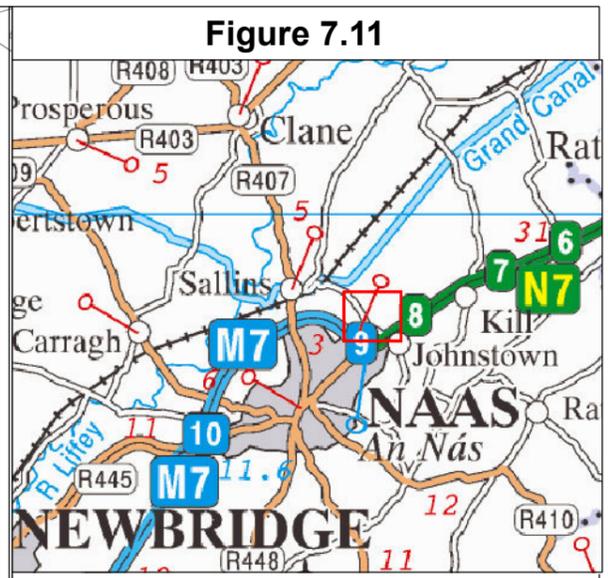
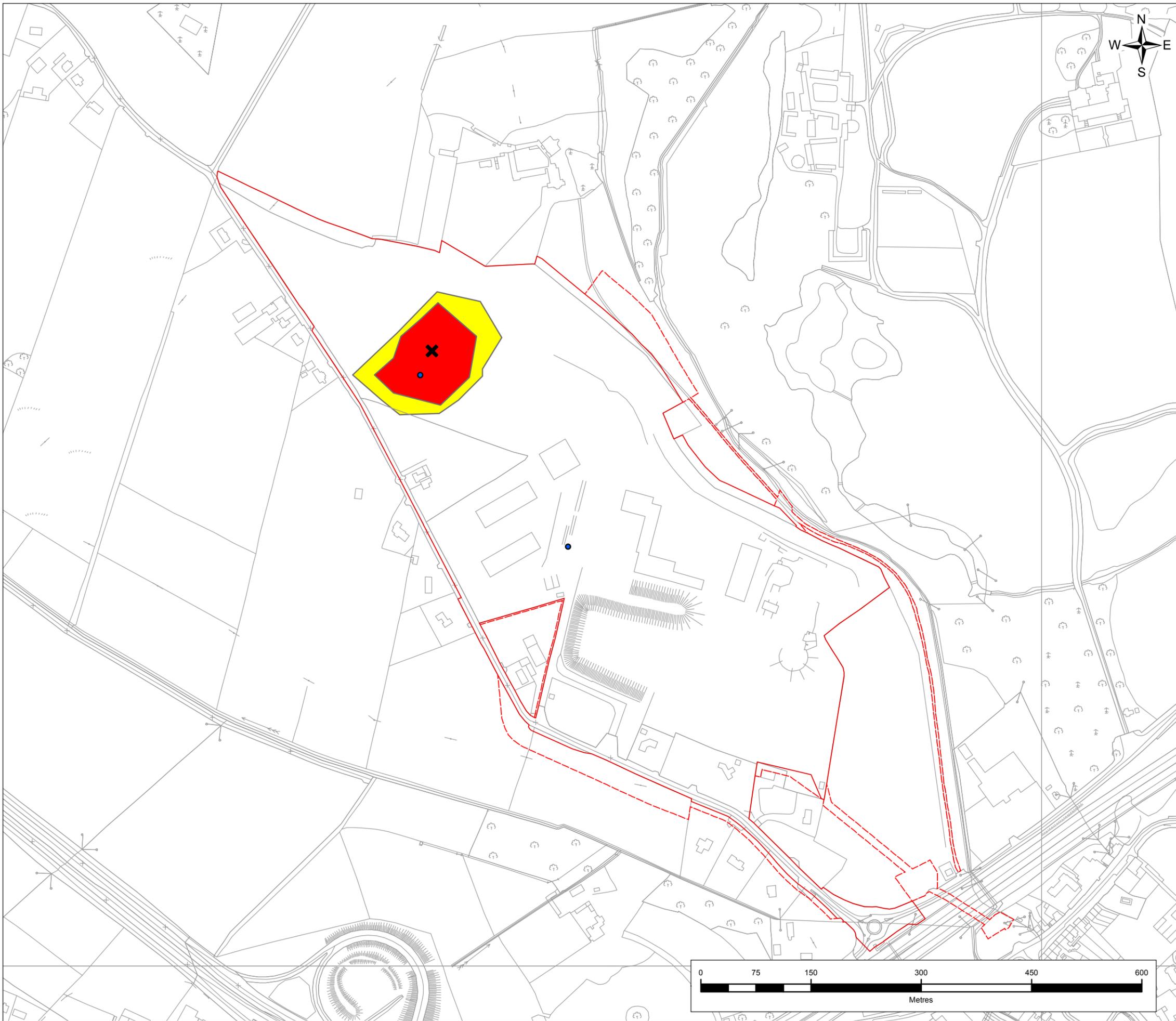
Drawing Title
FIGURE 7.10 - ISOPLETH SHOWING THE PREDICTED ANNUAL MEAN GROUND LEVEL CONCENTRATION OF NO₂ AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Air Quality Standard (AQS) is $30\mu\text{g}/\text{m}^3$

- X Maximum level attained, including background is $3.4\mu\text{g}/\text{m}^3$ (11% of AQS)
- $3.1\mu\text{g}/\text{m}^3$
- $3.0\mu\text{g}/\text{m}^3$

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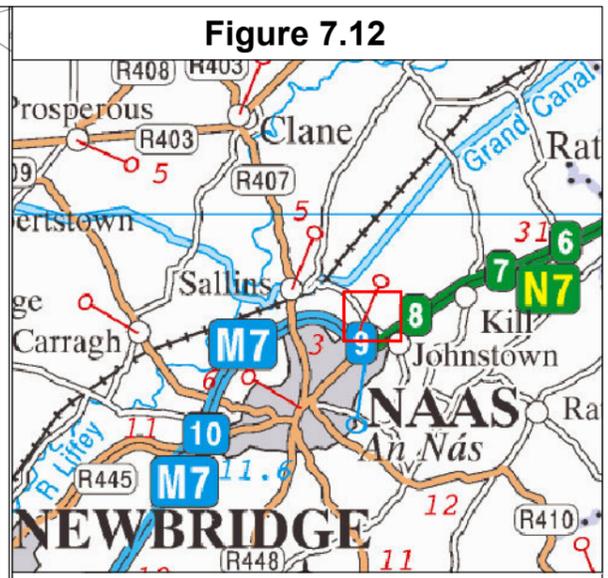
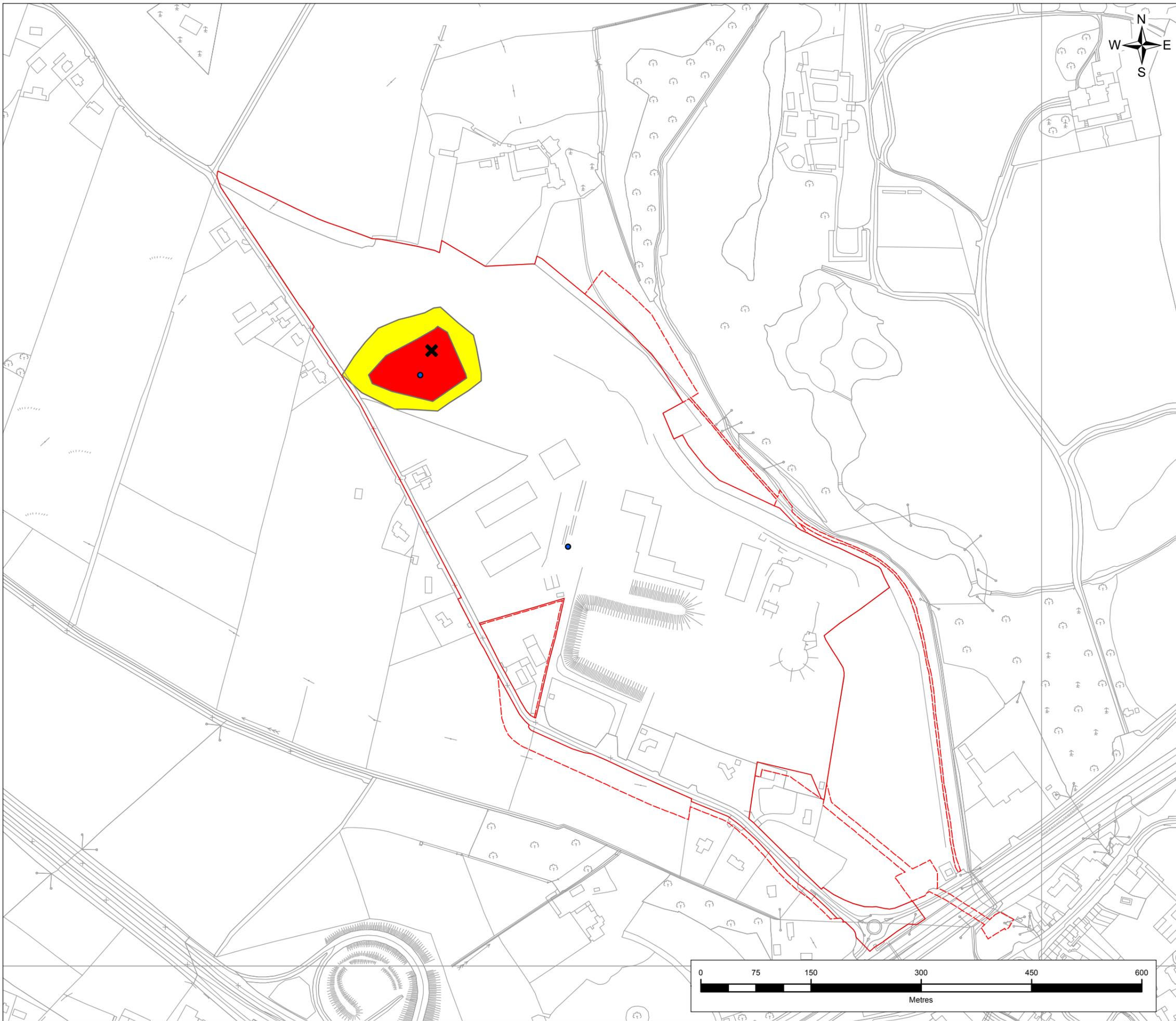
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Drawing Title
FIGURE 7.11 - ISOPLETH SHOWING THE PREDICTED ANNUAL MEAN GROUND LEVEL CONCENTRATION OF NO_x AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

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- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Odour Threshold (OT) is 1200µg/m³

- X Maximum level attained is 58.6µg/m³ (5% of OT)
- 30 µg/m³
- 20 µg/m³

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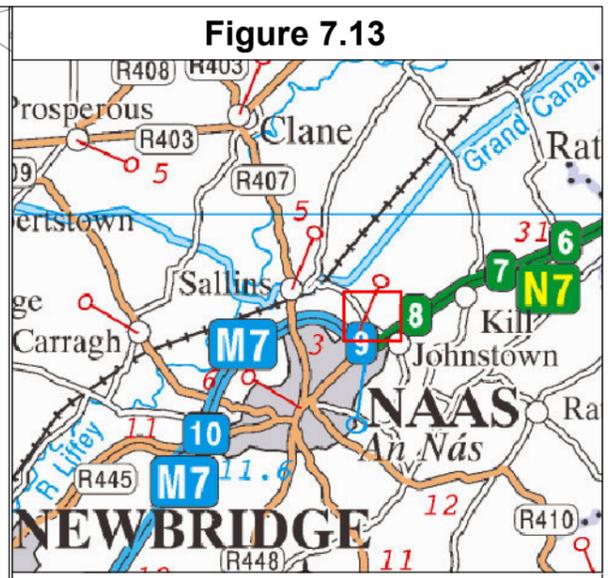
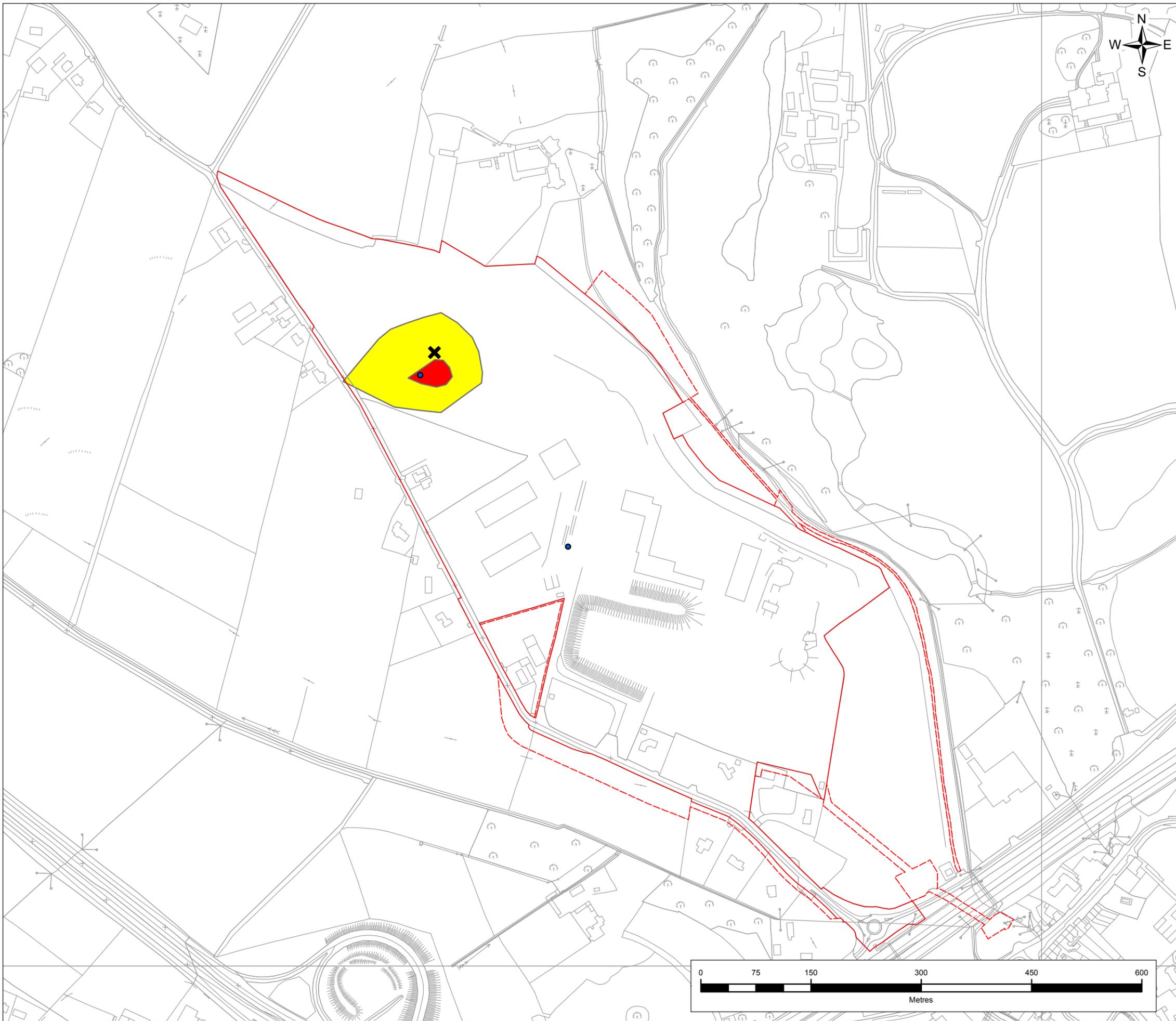
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KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.12 - ISOPLETH SHOWING THE PREDICTED 98 PERCENTILE OF 1-HOUR GROUND LEVEL CONCENTRATION OF SO₂ AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status		EIA SUBMISSION
Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-842 P2	Rev 2

G:\IISustainable Solutions\Kerdiffstown Landfill\11 - Data\GIS Data EIA\Air and Noise\MXD\Figure 7.12.mxd
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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of the Existing Flares

Odour Threshold (OT) is $0.7\mu\text{g}/\text{m}^3$

- X Maximum level attained is $0.59\mu\text{g}/\text{m}^3$ (84% of OT)
- $0.4\mu\text{g}/\text{m}^3$
- $0.2\mu\text{g}/\text{m}^3$

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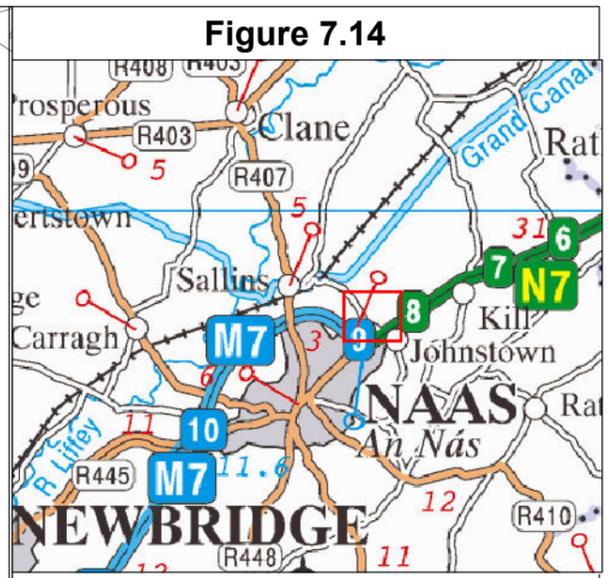
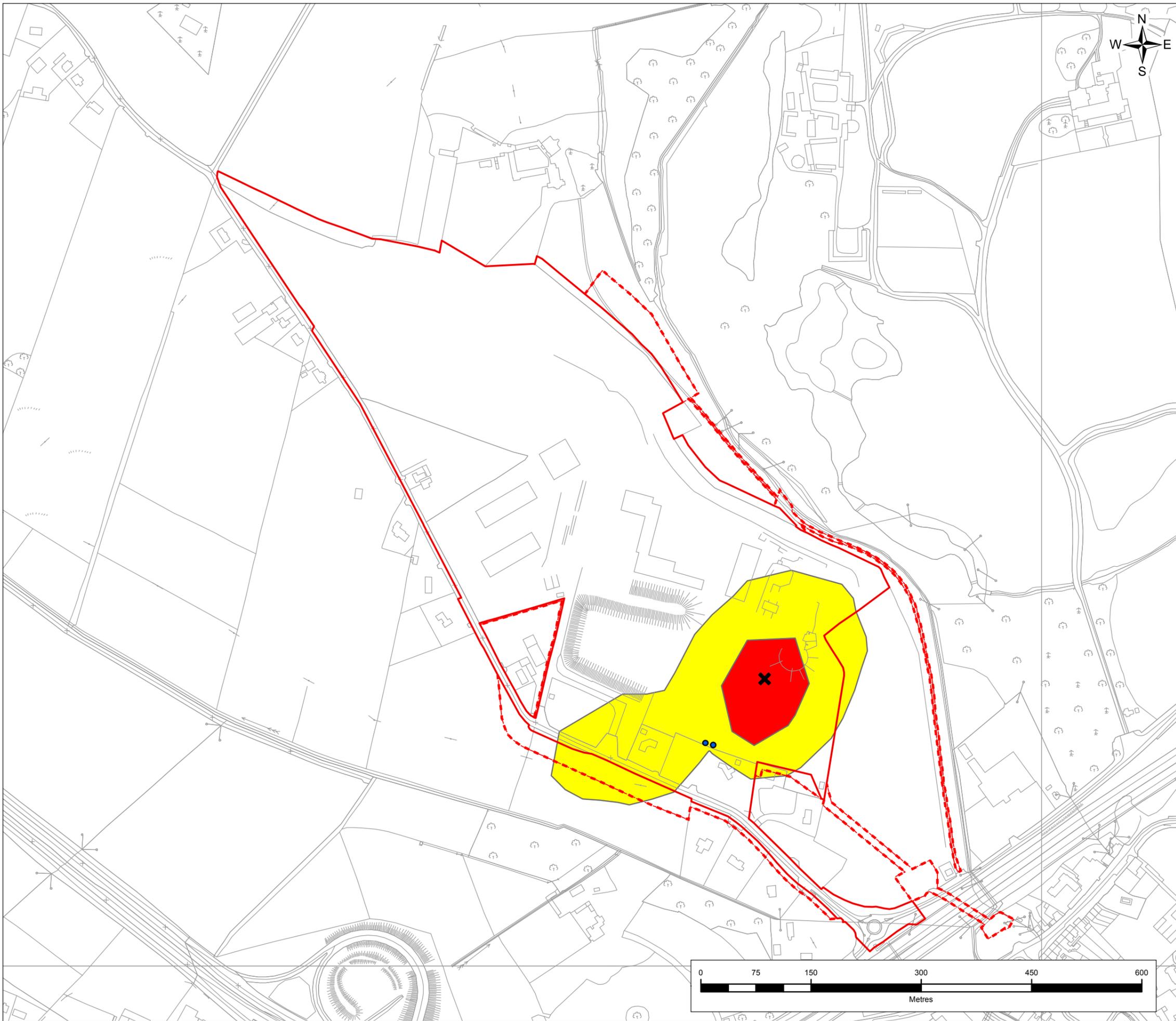
Project
KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.13 - ISOPLETH SHOWING THE PREDICTED 98 PERCENTILE OF 1-HOUR GROUND LEVEL CONCENTRATION OF H₂S AS A RESULT OF EMISSIONS FROM THE EXISTING 250M³ FLARE DURING THE REMEDIATION PHASE

Drawing Status **EIAR SUBMISSION**

Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-843 P2	Rev 2

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of New 600 m³ Flare and back-up 250 m³ Flare

Air Quality Standard (AQS) is 50µg/m³

- X Maximum level attained, including background, is 10.4µg/m³ (20% of AQS)
- 10.1 µg/m³
- 10.0 µg/m³

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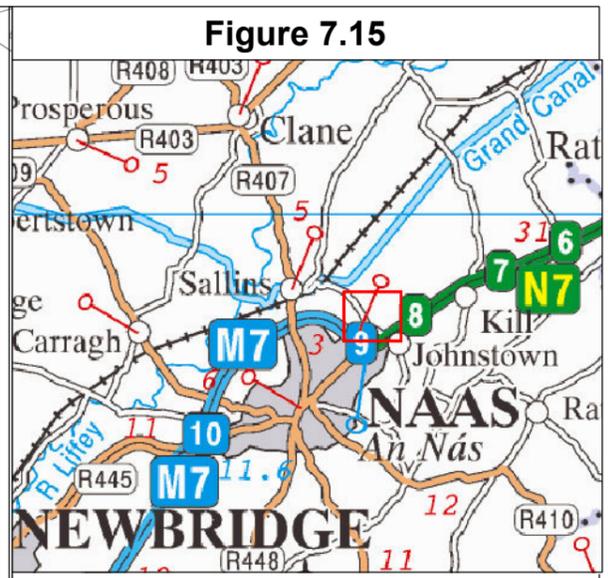
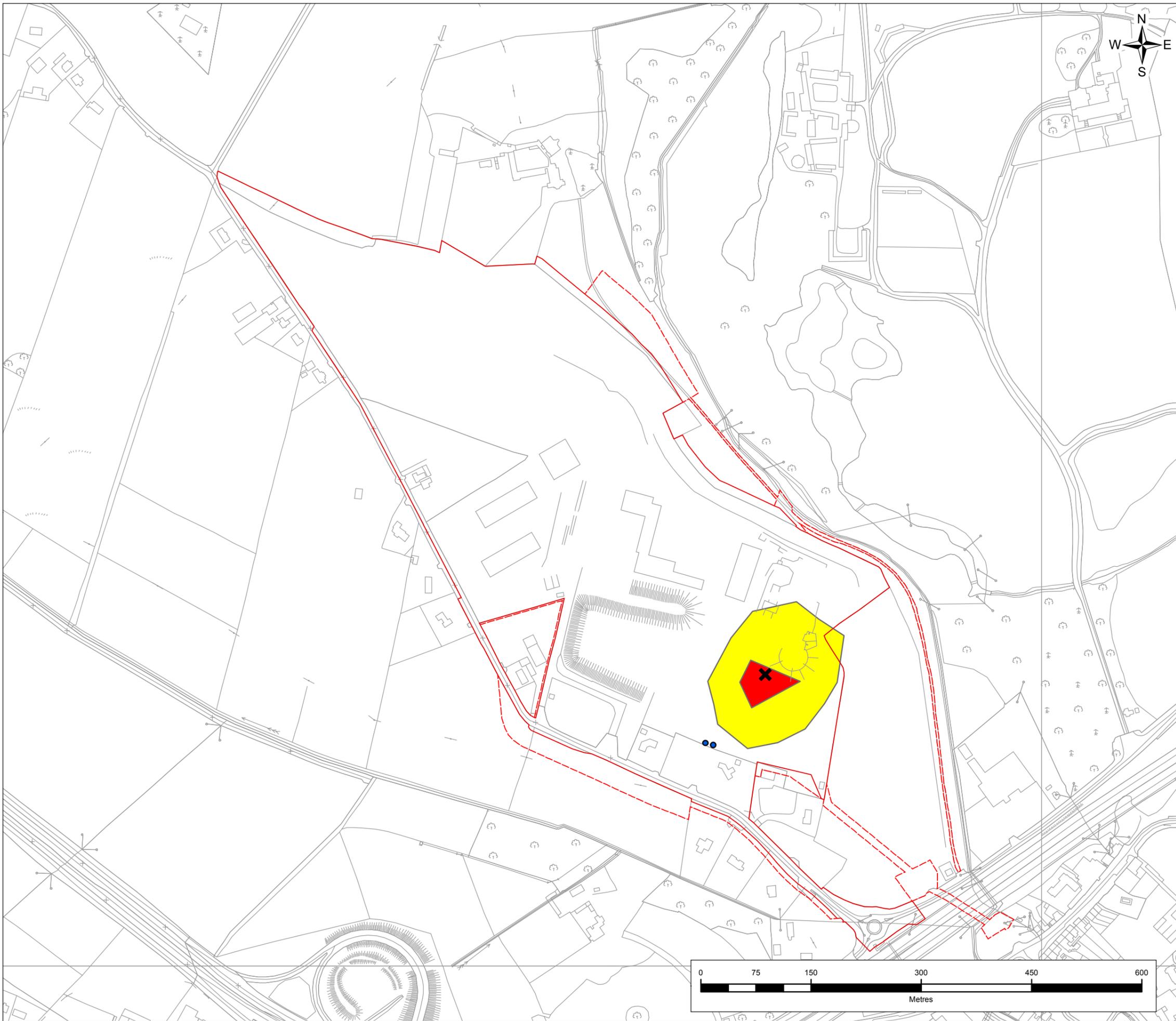
Project
KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.14: ISOPLETH SHOWING THE PREDICTED 90.4 PERCENTILE OF 24-HOUR GROUND LEVEL CONCENTRATION OF PM₁₀ AS A RESULT OF EMISSIONS FROM THE PROPOSED 600M³ FLARE DURING THE OPERATION PHASE

Drawing Status **EIAR SUBMISSION**

Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-844 P2	Rev 2

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of New 600 m³ Flare and back-up 250 m³ Flare

Air Quality Standard (AQS) is 40µg/m³

- ✘ Maximum level attained, including background, is 10.1µg/m³ (26% of AQS)
- 10.1 µg/m³
- 10.0 µg/m³

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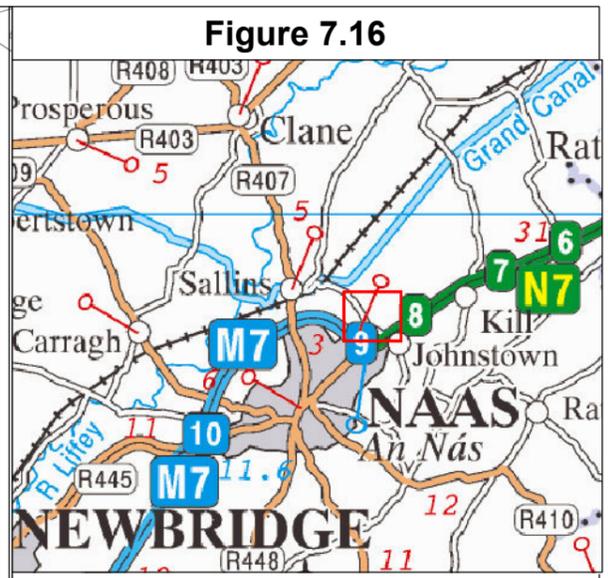
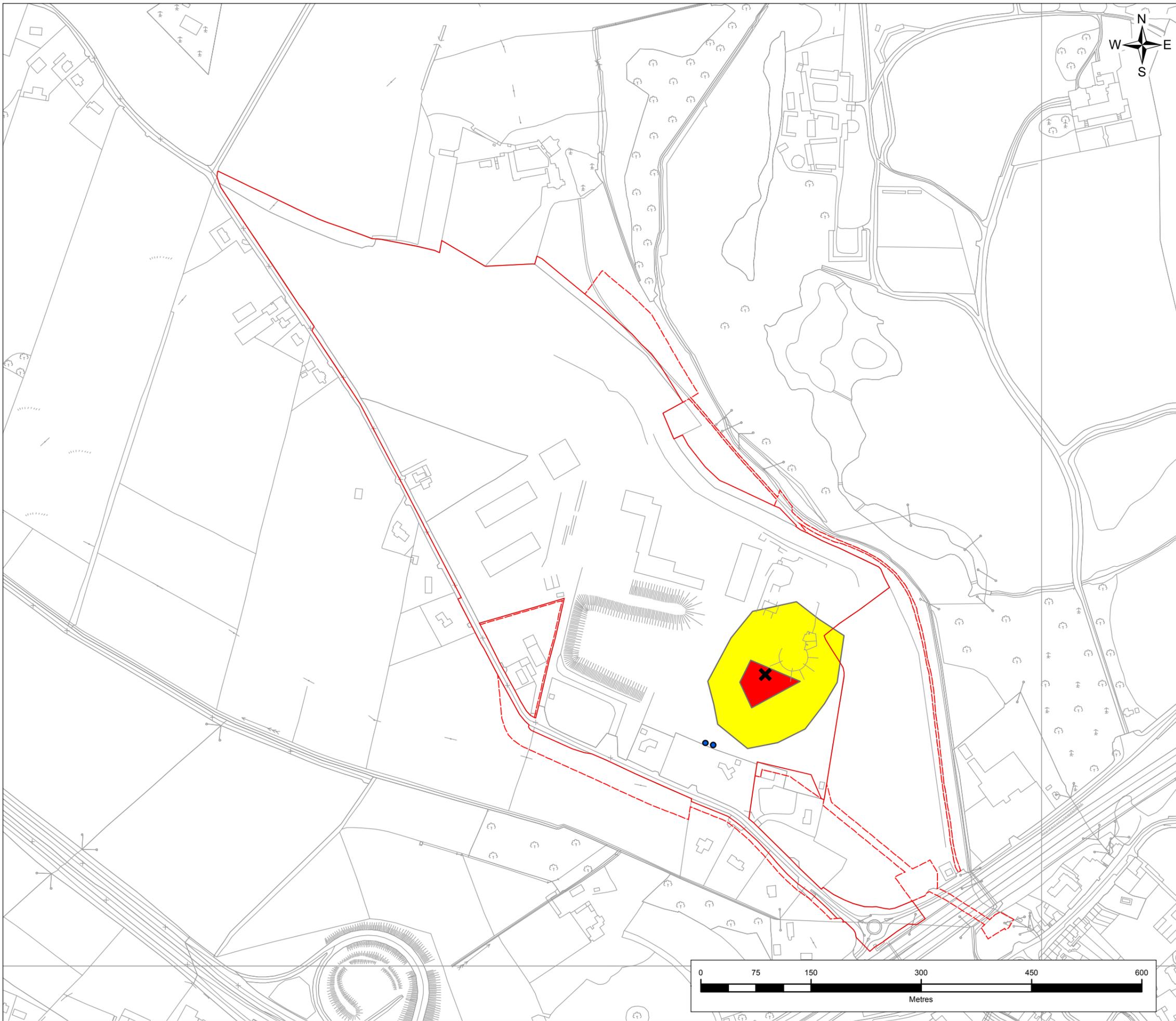
Project
KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.15 - ISOPLETH SHOWING THE PREDICTED ANNUAL MEAN GROUND LEVEL CONCENTRATION OF PM₁₀ AS A RESULT OF EMISSIONS FROM THE PROPOSED 600M³ FLARE DURING THE OPERATION PHASE

Drawing Status **EIAR SUBMISSION**

Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-845 P2	Rev 2

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of New 600 m³ Flare and back-up 250 m³ Flare

Air Quality Standard (AQS) is 25µg/m³ (20µg/m³ to be attained by 2020)

- X Maximum level attained, including background, is 6.1µg/m³ (25% of AQS)
- 6.1 µg/m³
- 6.0 µg/m³

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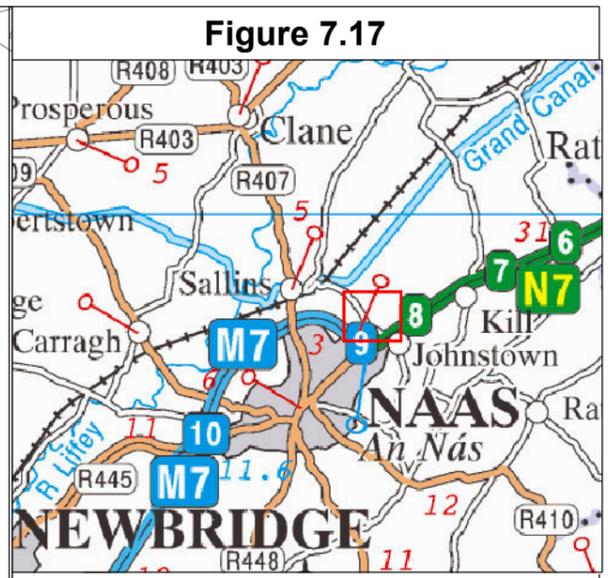
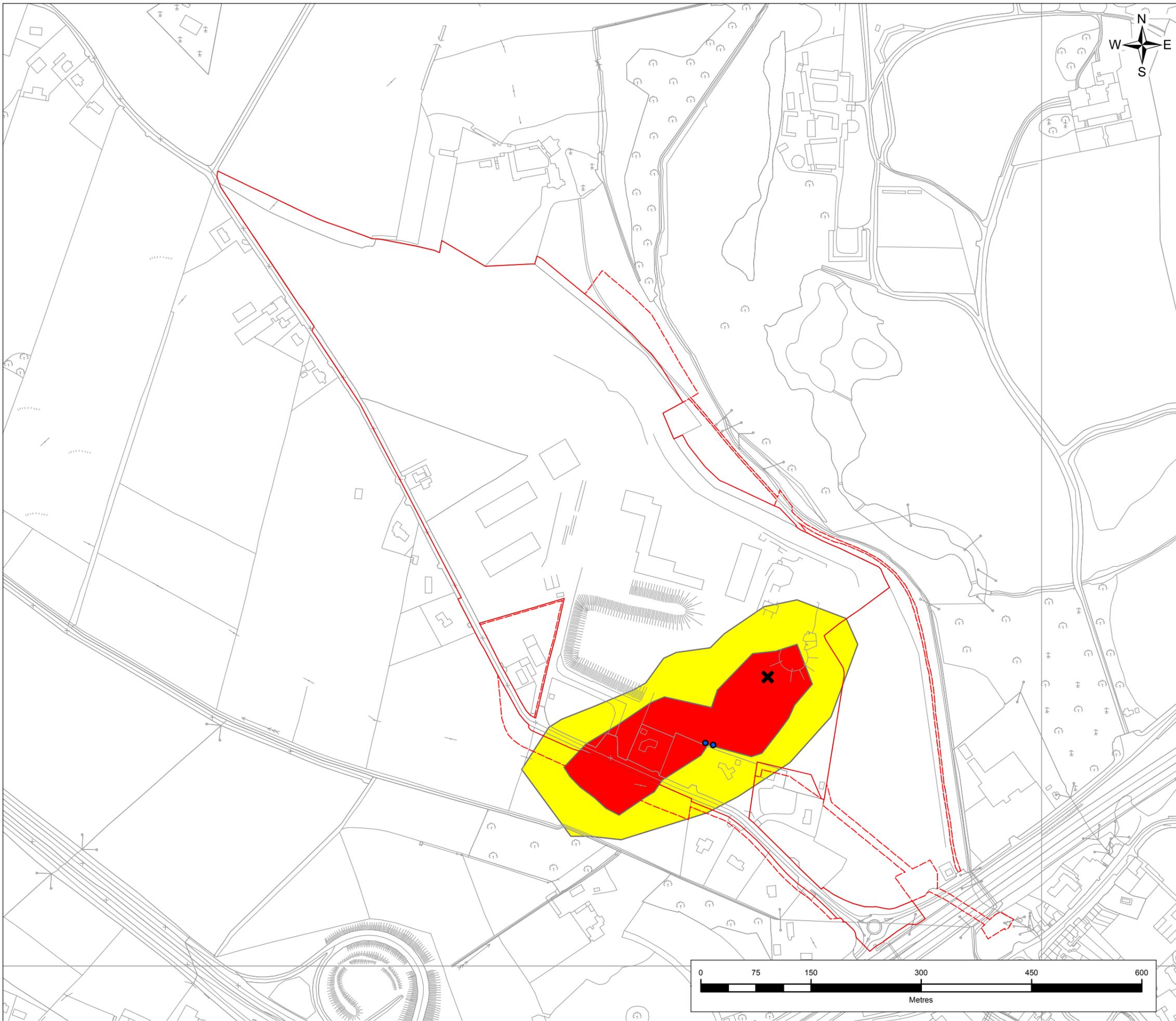
Project
KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.16 - ISOPLETH SHOWING THE PREDICTED ANNUAL MEAN GROUND LEVEL CONCENTRATION OF PM_{2.5} AS A RESULT OF EMISSIONS FROM THE PROPOSED 600M³ FLARE DURING THE OPERATION PHASE

Drawing Status **EIAR SUBMISSION**

Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-846 P2	Rev 2

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of New 600 m³ Flare and back-up 250 m³ Flare

Air Quality Standard (AQS) is 350µg/m³

- ✘ Maximum level attained, including background, is 79µg/m³ (23% of AQS)
- 45 µg/m³
- 35 µg/m³

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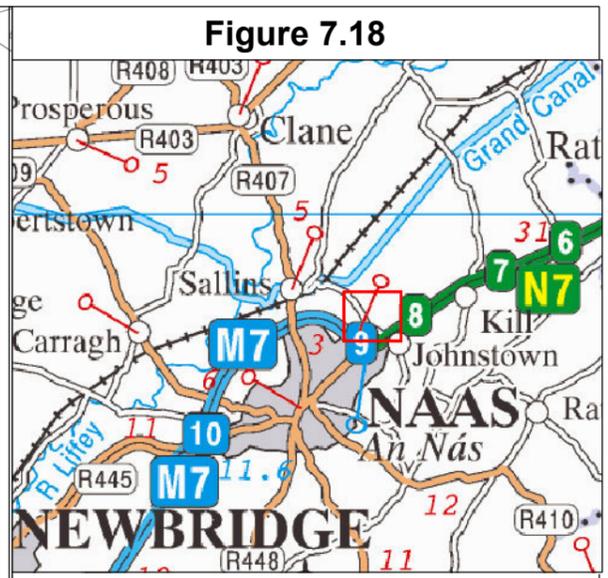
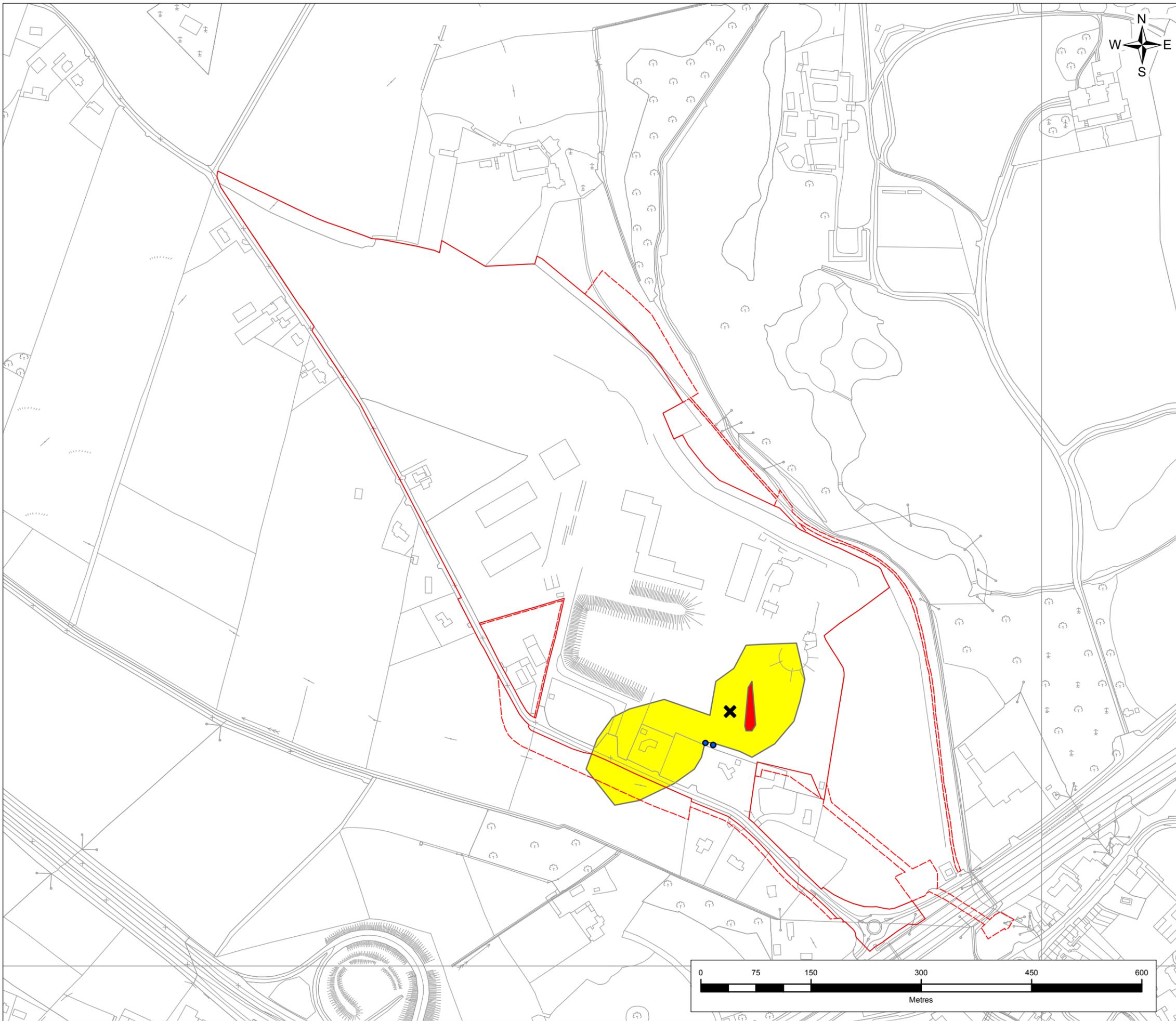
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Project
KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.17 - ISOPLETH SHOWING THE PREDICTED 99.7 PERCENTILE OF 1-HOUR GROUND LEVEL CONCENTRATION OF SO₂ AS A RESULT OF EMISSIONS FROM THE PROPOSED 600M³ FLARE DURING THE OPERATION PHASE

Drawing Status	EIAR SUBMISSION	
Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-847 P2	Rev 2

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Legend

- Proposed CPO Boundary
- Proposed Temporary CPO Boundary
- Location of New 600 m³ Flare and back-up 250 m³ Flare

Air Quality Standard (AQS) is 125µg/m³

- Maximum level attained, including background, is 29.3µg/m³ (23% of AQS)
- 20 µg/m³
- 15 µg/m³

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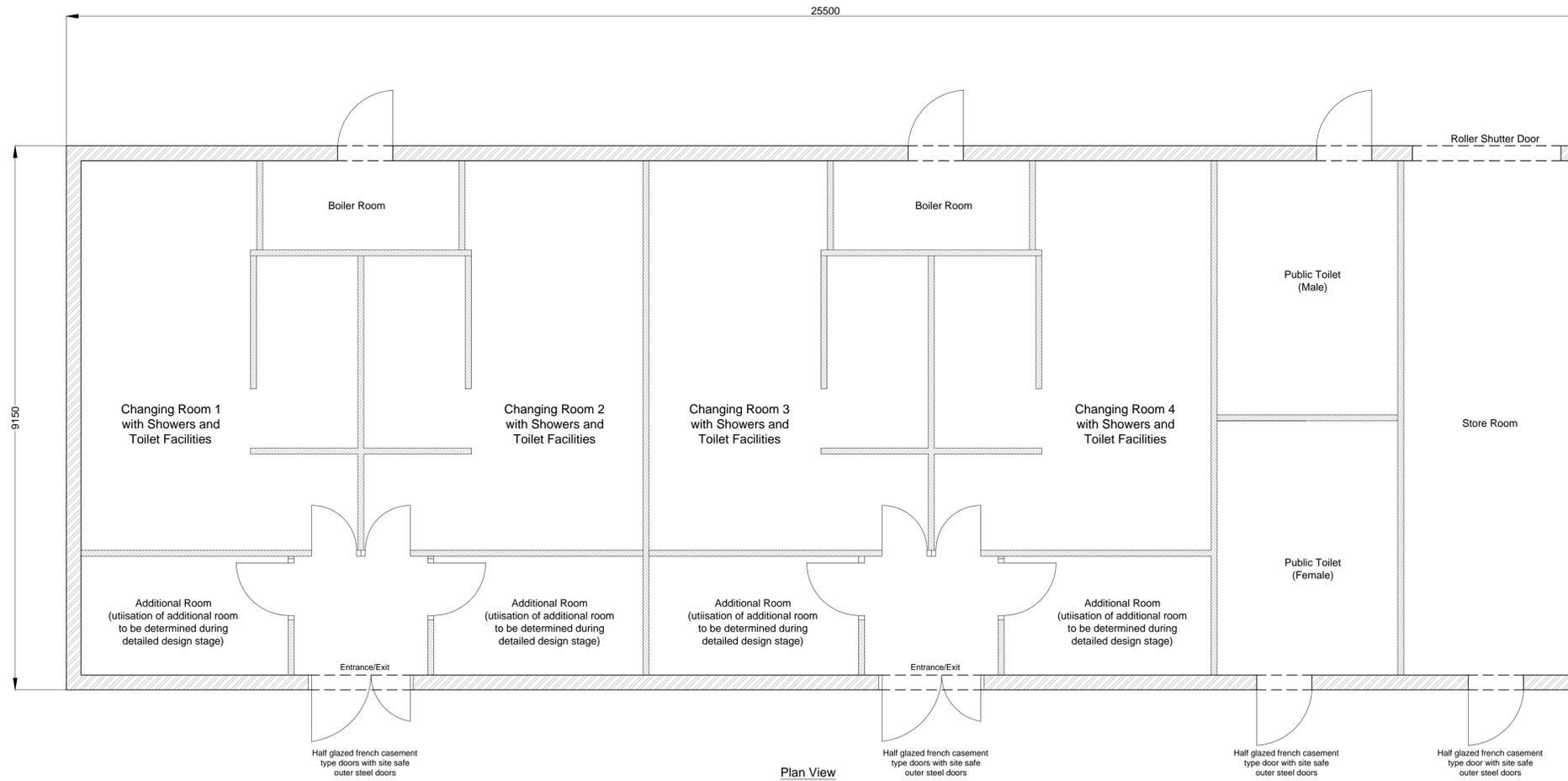
Project
KERDIFFSTOWN LANDFILL REMEDIATION PROJECT

Drawing Title
FIGURE 7.18 - ISOPLETH SHOWING THE PREDICTED 99.2 PERCENTILE OF 24-HOUR GROUND LEVEL CONCENTRATION OF SO₂ AS A RESULT OF EMISSIONS FROM THE PROPOSED 600M³ FLARE DURING THE OPERATION PHASE

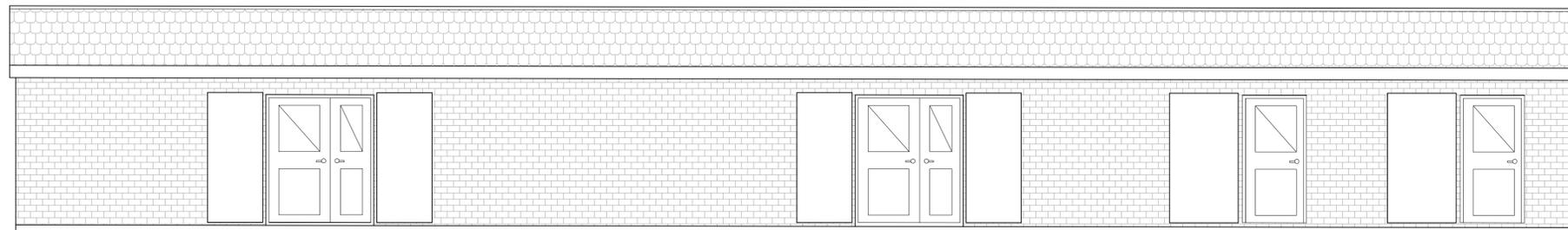
Drawing Status **EIAR SUBMISSION**

Scale @ A3	1:5,000	DO NOT SCALE
Jacobs No.	32EW5604	
Client No.	6286	
Drawing No.	32EW5604-848 P2	Rev 2

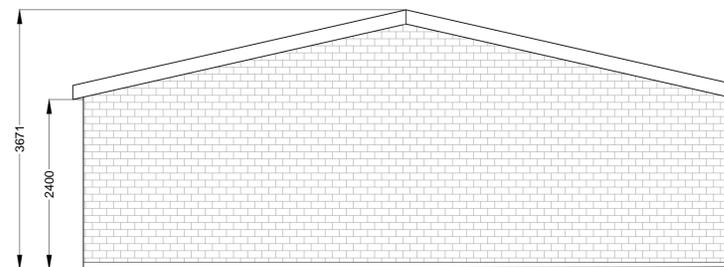
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Plan View

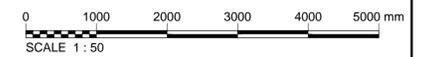


Side Elevation



End Elevation

- NOTE:
1. All dimensions in millimetres unless stated otherwise.
 2. Elevation shows steel tiles to roof and brick slip cladding, other optional claddings available. To be confirmed during detailed design.
 3. Layout shown is indicative and will be confirmed during detailed design.



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
2	08/08/2017	EIAR SUBMISSION	AR	CD	CD	RR
1	30/06/2017	EIAR SUBMISSION	KMA	CD	CD	RR
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Project
**KERDIFFSTOWN LANDFILL
 REMEDIATION PROJECT**

Drawing title
**FIGURE 4.21
 CHANGING ROOMS BUILDING
 FOR THE PROPOSED PROJECT**

Drawing status
EIAR SUBMISSION

Scale
1:50_1 @A1 DETAILS SHOWN ARE NOT FOR CONSTRUCTION PURPOSES HENCE DRAWING SHOULD NOT BE SCALED

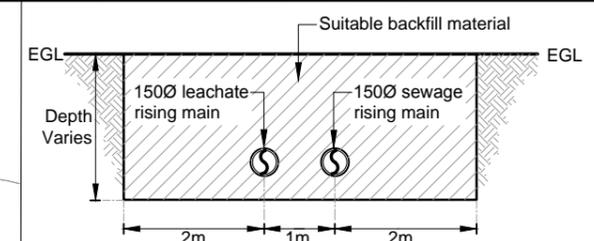
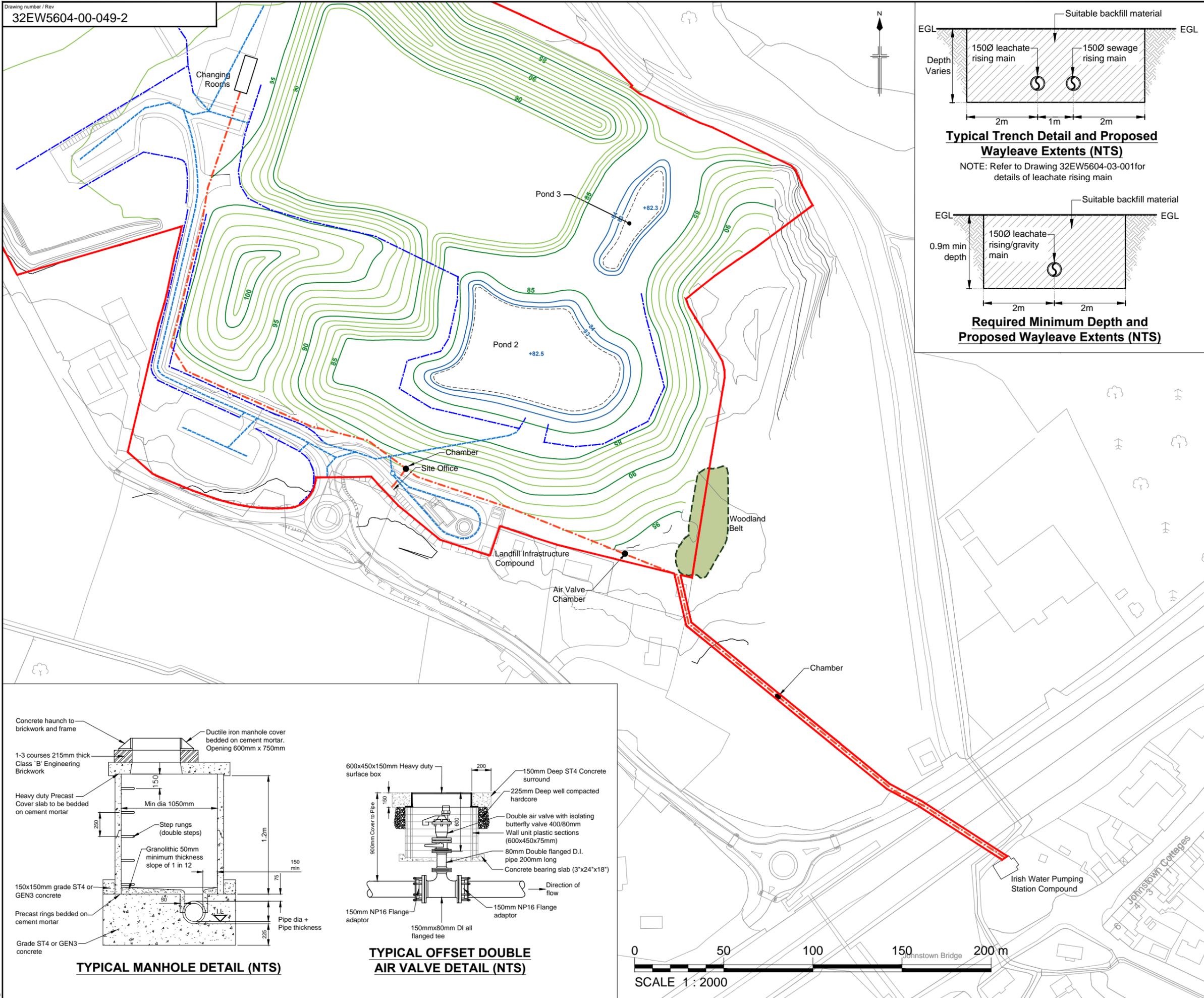
Jacobs No.
32EW5604

Client no.
6286

Drawing number
32EW5604-00-048

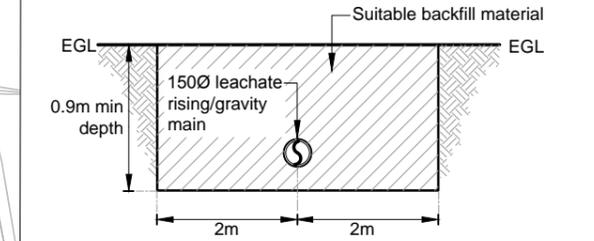
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Typical Trench Detail and Proposed Wayleave Extents (NTS)

NOTE: Refer to Drawing 32EW5604-03-001 for details of leachate rising main



Required Minimum Depth and Proposed Wayleave Extents (NTS)

FIGURE 4.22
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- KEY:**
- Licence Boundary
 - - - Foul Sewer (Buried)
 - Surface Water (Ditch/Open Channel)
 - - - Surface Water (Buried Pipework)

- NOTE:**
1. All levels to metres OD (Malin Head).
 2. All dimensions in millimetres unless stated otherwise.

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2	07/08/2017	EIAR SUBMISSION	AR	CD	CD	RR
1	30/06/2017	EIAR SUBMISSION	KMA	CD	CD	RR
0	12/12/2016	DRAFT EIAR SUBMISSION	AR	ND	CD	RR



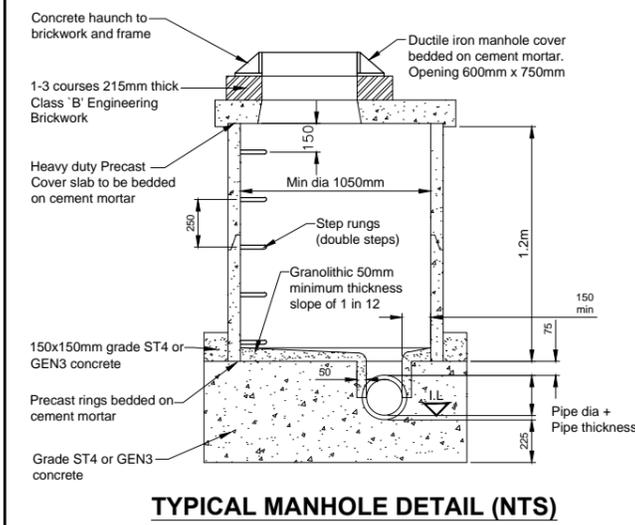
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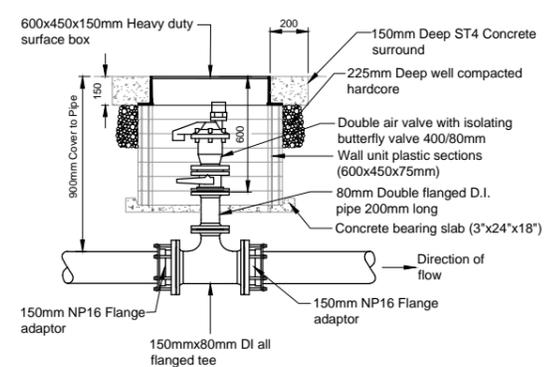
Drawing title: **FIGURE 4.22**
SEWAGE DRAINAGE FOR THE PROPOSED PROJECT
PLAN AND TYPICAL DETAILS

Drawing status: EIAR SUBMISSION
Scale: 1:2000 @ A3
Jacobs No.: 32EW5604
Client no.: 6286

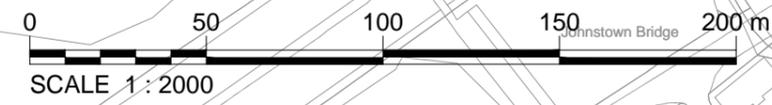
Drawing number: 32EW5604-00-049
Rev: 2
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TYPICAL MANHOLE DETAIL (NTS)



TYPICAL OFFSET DOUBLE AIR VALVE DETAIL (NTS)



SCALE 1:2000

W:\dub+fl00\1\1\Sustainable Solutions\Kerdiffstown Landfill\15 - Drawings\CAD\Engineering Design - EIS\32EW5604-00-049-2.dwg - 11/08/2017 10:27:44 - EIAR - alroberts