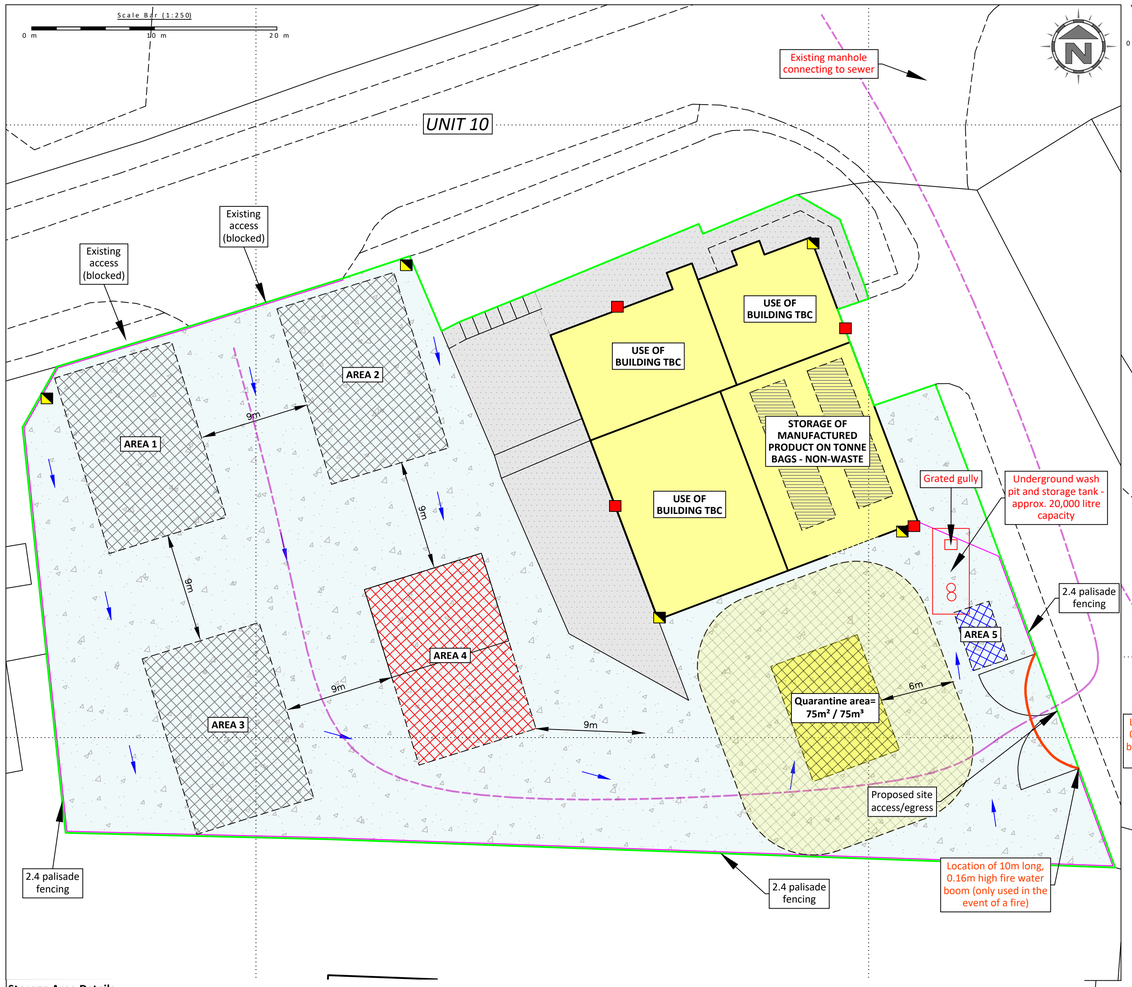

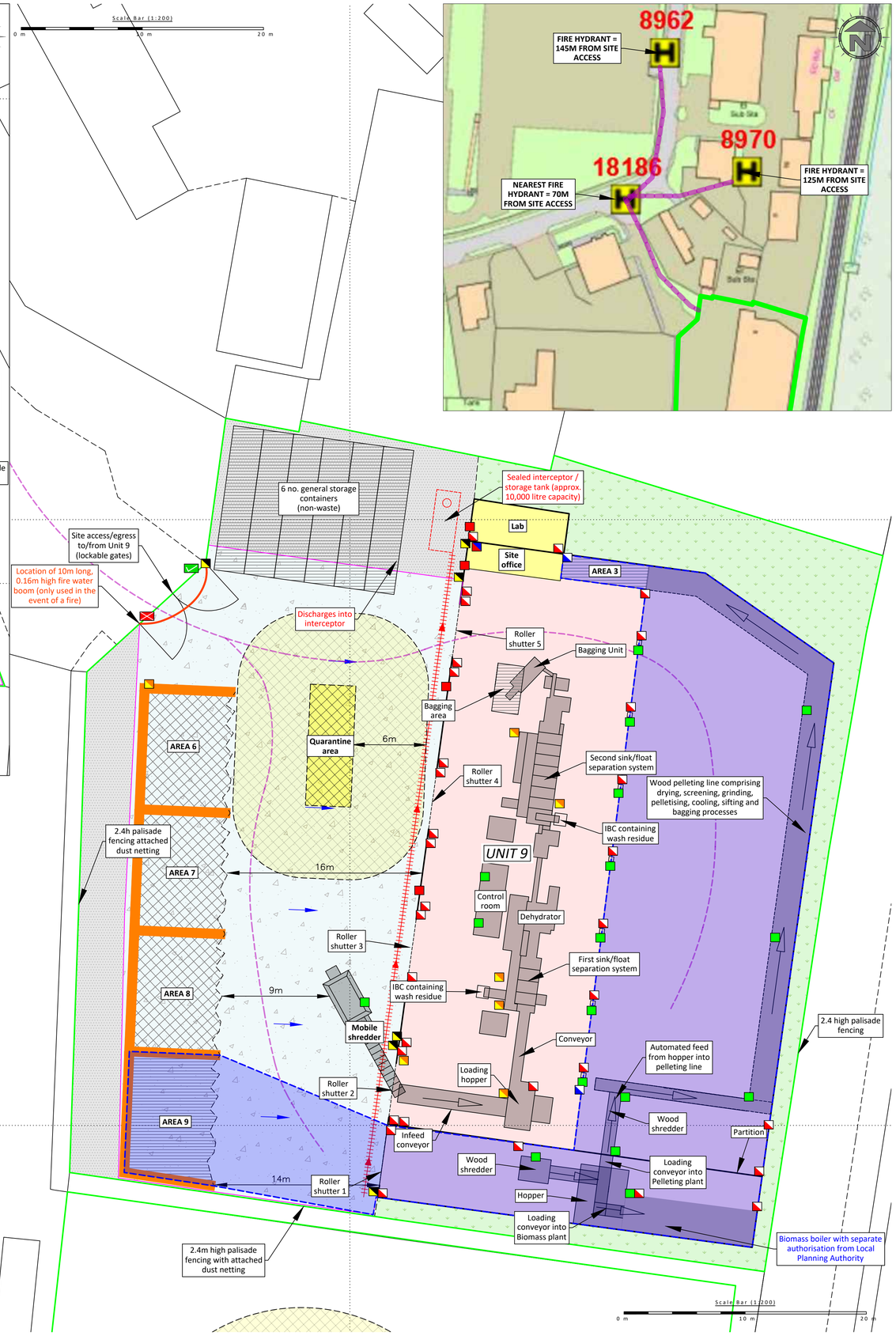

Storage Area Details

Plan Ref	Description	Storage type	Containment / type	Height of firewall (m)	Max width (m)	Max length (m)	Max height (m)	Max area (m)	Conversion factor used	Max volume (m3)	Max storage time	Comments
AREAS 1 - 3	Waste acceptance and inspection area for plastic containers	Unprocessed plastic containers /drums / IBC'S	N/A - Freestanding	N/A	15	10	1	150	1	150	<1 week	It must be noted that the containers/drums are likely to be empty so the actual tonnage will be low and the self-combustion risk is extremely low
AREAS 4	Hazardous plastic container storage	Unprocessed plastic containers /drums / IBC'S	N/A - Freestanding	N/A	15	10	1	150	1	150	<1 week	As above - containers deemed hazardous by the site chemist
AREA 5	Containing washing area	As above	As above	N/A	5	3	1	15	1	15	<10 hours	Containers undergo full inspection and washed of any hazardous residues; area clear out-of-hours
AREA 6	Non-hazardous plastic containers	Unprocessed plastic containers/drums	3-sided concrete firewall bay	3.2	10	7.5	2	75	1	150	<1 week	See AREAS 1 - 4 comments
AREA 7	Non-hazardous plastic containers	Unprocessed plastic containers/drums	As above	3.2	10	7.5	2	75	1	150	<12 hours	As above and actual pile size would be much less as waste will constantly be moving
AREA 8	Non-hazardous plastic bales/bags	Mixture of mechanical sorting and processing	As above	3.2	10	7.5	2	75	1	150	<12 hours	N/A
AREA 9	Virgin timber / wood feed for biomass and pelleting plant (non-waste)	Mixture of mechanical sorting and processing	As above	3.2	10	7.5	2	75	1	150	<12 hours	N/A

CONVERSION FACTORS

Conversion factors for waste piles are worked out using the following methods set out by Natural Resources Wales

The maximum length & width of pile is based on the largest dimension – the volume of the pile has been calculated using the area x height x relevant conversion factor

Conversion of 1 for materials stored within containers, area of storage in stackable containers and waste/bale stacks

Conversion of rectangle + pyramid for waste stored within a bay (approx. 0.75)

Conversion of pyramid volume for waste stored in a free-standing stockpile (approx. 0.333)

For areas containing skips, conversion is calculated by volume of each skip x number of skips

NOTES

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REVISION HISTORY

Rev:	Date:	Init:	Description:
-	02.06.21	CP	Initial drawing
A	09.09.21	CP	Updated layout / client comments
B	11.10.21	CP	Updated layout / client comments
C	21.02.22	CP	Updated layout / NRW comments
D	26.09.22	CP	Updated layout / NRW comments

Key:

- Permit boundary
- Area covered by Part B Authorisation with LPA and not part of permitted operations
- Combustible waste storage areas
- Combustible waste storage areas (hazardous)
- Product storage non-waste
- Waste recycling buildings
- Concreted areas
- Other buildings (offices, etc.)
- Stone surface / free draining
- Landscaped/grass areas
- Location of fixed & mobile plant (indicative)
- Interlocking concrete fire walls (minimum 0.6m thick)
- 0.15m high concrete kerbing/seal
- Mains water point
- Spill kit
- Fire fighting equipment (extinguishers, etc.)
- Fire water containment equipment i.e. booms, drain mats, drain plugs etc..
- Access routes for emergency vehicles and site plant manouevring areas
- Fire alarm
- Surface water fall direction
- Foul (contaminated) water drainage
- Foul manholes
- Plant shut off
- Fire assembly point
- CCTV cameras (indicative)
- Infrared/heat detection cameras
- Emergency services box

Oaktree Environmental Ltd
Waste, Planning and Environmental Consultants

DRAWING TITLE
SITE LAYOUT & FIRE PLAN

CLIENT
New Horizon Biofuel and Animal Bedding Co Ltd

PROJECT/SITE
Units 9 & 10, Vauxhall Industrial Estate, Ruabon, Wrexham LL14 6HA

SCALE @ A1	CLIENT NO	JOB NO
1:200	2704	012

DRAWING NUMBER	REV	STATUS
VIE/2704/03	D	Issued

DRAWN BY	CHECKED	DATE
CP	PT	26.09.22

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