

Southern Water

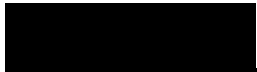
Canterbury WTW/STC

Emergency Grab pack.

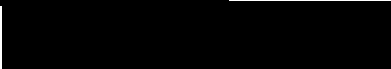
Nov 2023.

Final Draft

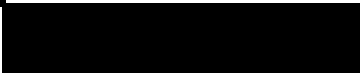
Author:



Sponsor:



Approved and signed off by:



Version 2.0 Nov 2023

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1. EMERGENCY CONTACT NUMBERS

Management

RCC – 0330 3030261

[REDACTED]

[REDACTED]

SITE OPS

[REDACTED]

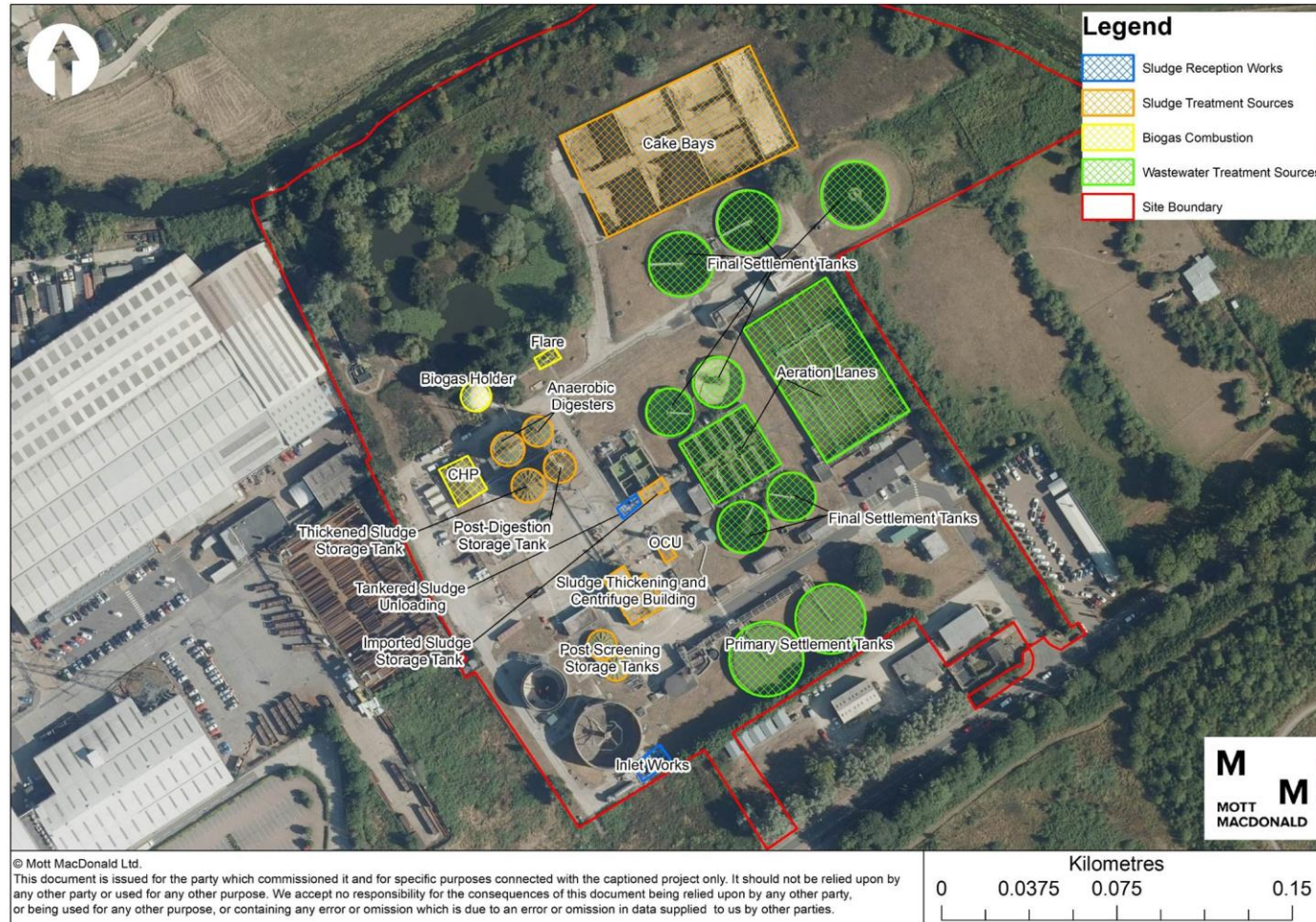
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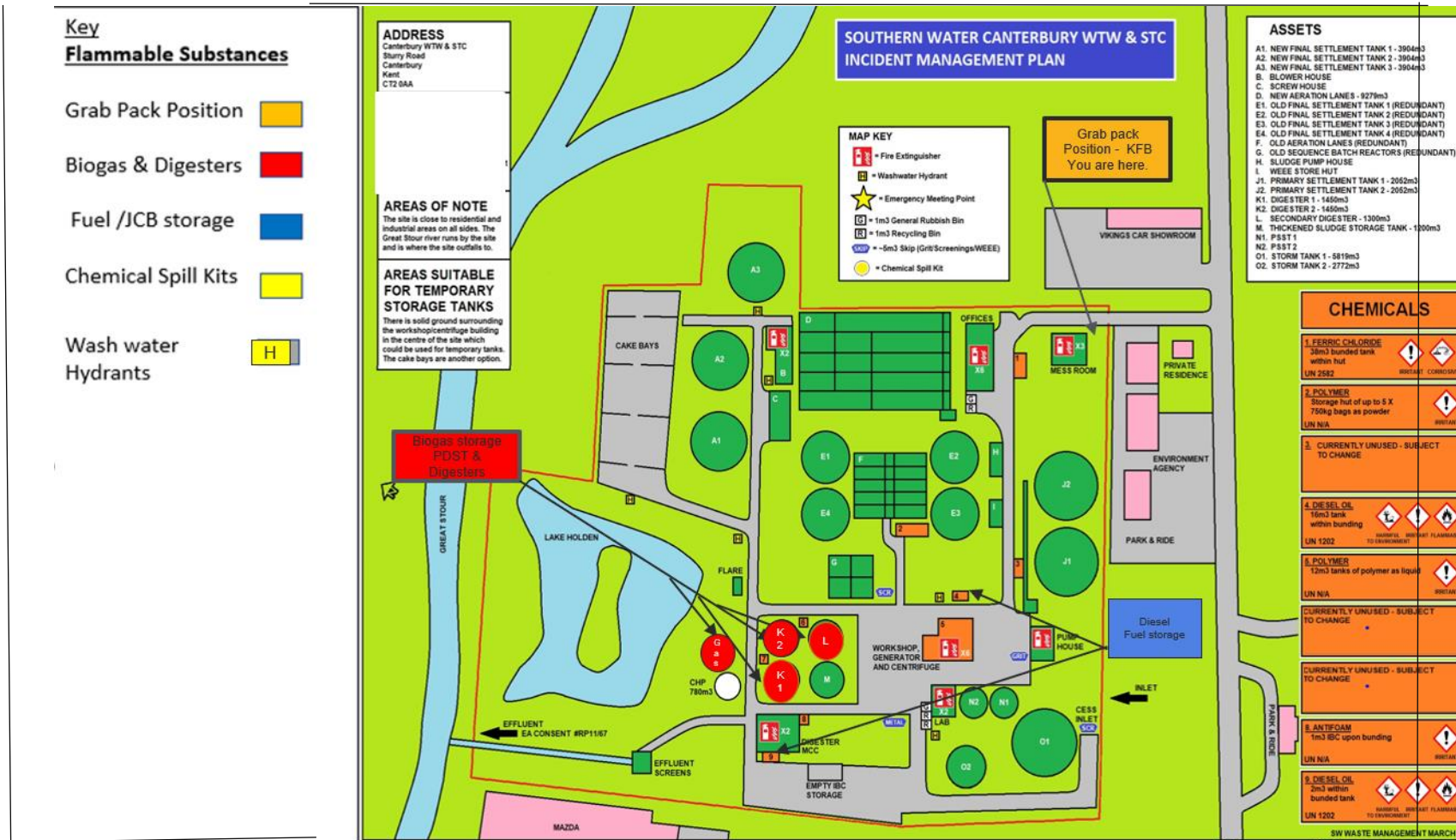
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2. SITE PLANS

Map of Processes



Map of flammable substances and fire hydrants (H)



Map of biogas systems



Emissions Ref	Emissions Points	Assets Ref	Assets	X	Y
A01	CHP exhaust stack	1	CHP	616716	159770
A02	Boiler exhaust stack	2	Boilers	616706	159765
A03	Flare stack	3	Flare	616747	159812
A04	Whessoe valve 1	4	Gas holder	616725	159795
A05	Whessoe valve 2	5	Digester 1	616745	159782
A06	Whessoe valve 3	6	Digester 2	616733	159775
A07	Whessoe valve 4	7	Post-digestion storage tank	616755	159767
A08	OCU	8	Odour control unit	616796	159735
W1	Inlet (for context only)			616788	159635
		11	Tanker waste reception area 1	616788	159635
		12	Gas condensate pot 1	616736	159784
		13	Gas condensate pot 2	616738	159785
		14	Gas condensate pot 3	616753	159778
		15	CHP condensate collection	616719	159768
		16	Cake storage bays	616805	159905
		17	Post screening storage tank 1	616773	159691
		18	Post screening storage tank 2	616779	159681
		19	Thickened sludge storage tank	616742	159758
		20	Sludge reception tank	616793	159755
		21	Reception point	616783	159750
		22	Ferric chloride store	616903	159738
		23	Poly store	616722	159733
		24	Poly store	616780	159715
		25	Chemical/oil store	616817	159698
		26	Return liquors well	616819	159720
		27	Strain press	616761	159701

A(X): Air emissions S(X): Sewer emission points M(X): Monitoring Points
 *Surface water / drainage (future bund drainage)



<p>M M</p> <p>MOTT MACDONALD</p> <p>Mott MacDonald House 8-10 Sydenham Road Croydon T +44 (0)20 8774 2000 W mottmac.com</p>		<p>Title</p> <p>Canterbury STC</p> <p>Site Layout Plan</p> <p>Page 1</p>					
Date	Drawn	Checked	Approved	Scale at A4	Drawing Number	Status	Rev
03/09/24	D Evans	S Stone	A Manns	1:2,000	790101_MSD_SiteLayoutPlan_CAN	INF	08

3 .MATERIALS & CHEMICALS STORAGE ON SITE.

List of combustible materials stored on site.

WASTE INVENTORY (See EMS 480)					
Trade Name/ Substance	Solid/liquid/ gas/powder	UN Number	Max Stored on Site	Location Marked on Site Plan	Type of Containment
Biogas	Biogas	UN1971	2000m3 Max.	Biogas Holder - 780m3 PDST Headspace -323m3 Digester Headspace - 646m3	Gas bag Digesters Pipelines Flare Stack CHP Engine.
Diesel Oil	Liquid	UN1202	16m3	Next to the Generator and workshop	Tank
Sludge	Liquid	Non - Hazardous	100m3	Sludge Reception Tank	Tank
Sludge Cake	Dried Cake	Non - Hazardous	<6000m3	Cake Bays	Bays
Polymer	Powder	UN2923	6 X 1 1m3/750kg bags	Inside centrifuge building and poly store	Bags
Lime (Dust).	Solid (granules)	UN1956	Variable this is an unusual activity	Cake Bays	In bags
Gas Cylinders	Gas	N/A	Welding / burning Equip.	Workshop marked on plan.	Gas Bottles stored in a locked building overnight.
Ferric Chloride	Liquid	UN2582	20 Cm each tank – total 40 Cm	Number 1 on site plan	2 X Storage tank.
Aerosol Leaks of Biogas	Biogas	UN1971	Not Known as would be formed by leaks	Biogas Holder area Digester headspace	Gas bag Digesters Pipelines Flare Stack CHP Engine
JCB Loader / MTS Tankers & Chemical Delivery tankers.	Diesel Powered	N/A	Diesel Fuel tank on machine	Stored outside dewatering building on plan out of hours but may be anywhere on site.	Vehicle stored outside overnight.

Likely combustible waste management.

- Paper or cardboard – this is controlled by using sealed bins.
- Plastics – We do not store plastic waste other than in recycle Bins.
- Rags and textiles – rag is managed in skips by MTS for composting.
- Scrap metals contaminated or mixed with other waste such as oils or plastics – managed by Southern Water Scrap metal skips and Fly tipping requests to empty skips.
- De-polluted and un-depolluted ELVs – We do not break ELV's
- Refuse derived fuel (RDF) and solid recovered fuel (SRF) – N/A.
- Compost and plant material – Managed by MTS on SW behalf.
- Biomass – Managed In process control and via sludge cake.
- Mixed waste containing any combustible wastes – Via Sealed bins.
- Sludge cake Storage in cake bays.
- Lime used to treat Sludge cake could be stored on Cake Bays if in use.
- WEEE – Managed via Locked Wee containers.
- Wood – Pallets are stored on site.

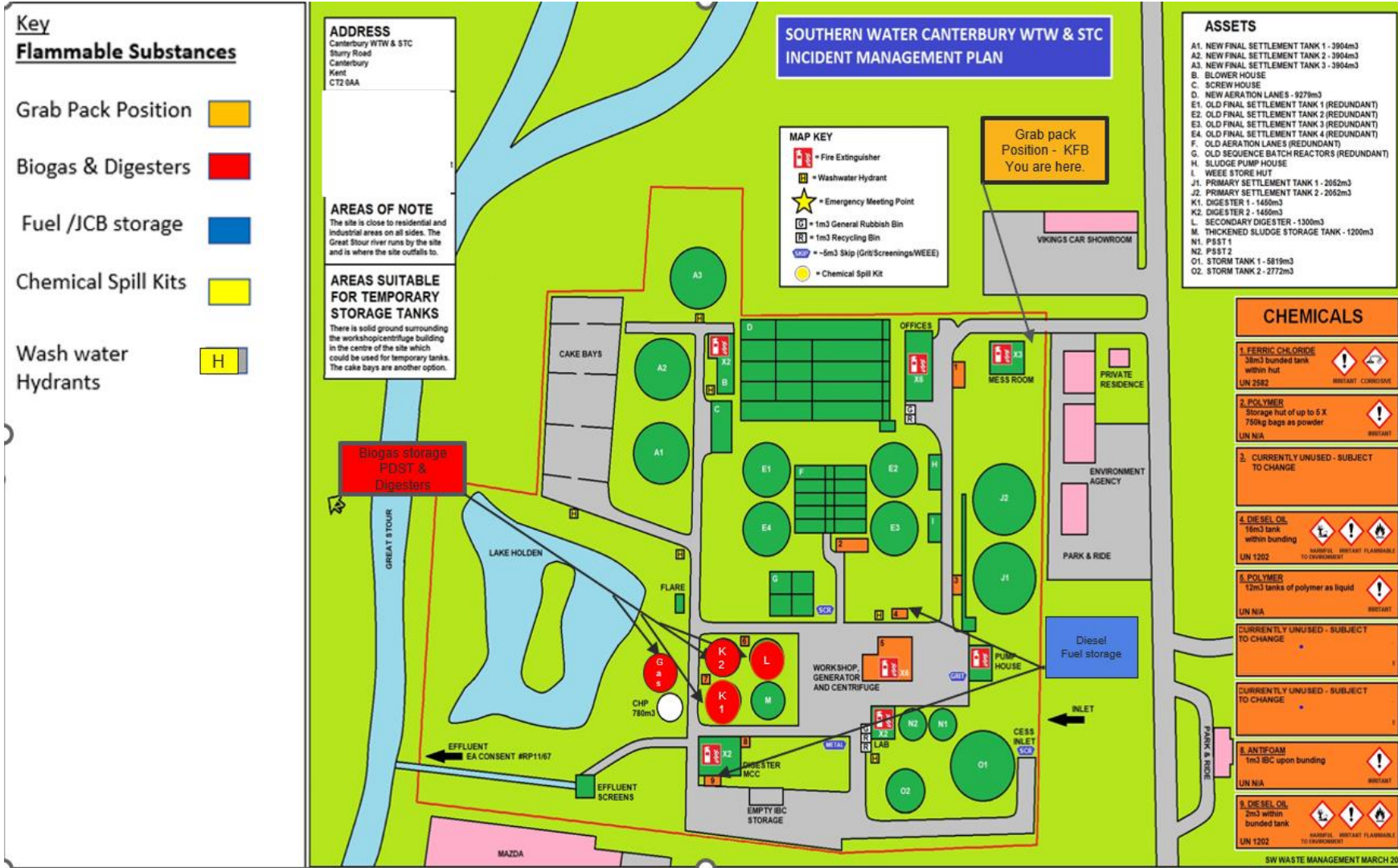
Non-Combustible.

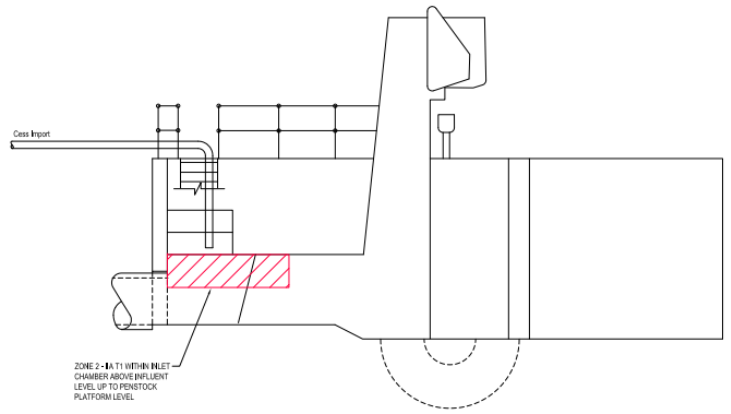
CHEMICAL PRODUCT INVENTORY (See relevant COSHH sheets)					
Trade Name/ Substance	Solid/liquid/ gas/powder	UN Number	Max Stored on Site	Location Marked on Site Plan	Type of Containment
Antifoam	Liquid	N/A	3 X 1m ³	Outside heater house building.	Intermediate Bulk container(IBC)
Polymer	Liquid	N/A	6 x 1050 kg as liquid in IBC	Inside garages next to offices	IBC
Wastewater	Liquid	N/A	8100m ³	2 x Storm Tank	Tank
Wastewater	Liquid	N/A	4322m ³	2 X Primary Settlement Tanks	Tanks
Wastewater	Liquid – Non- Buoyant	N/A	9921m ³	Aeration Lanes	Lanes
Wastewater	Liquid	N/A	5563m ³	3 X Final Settlement Tanks	Tanks
Sludge	Liquid	N/A	2900m ³	2 X Digesters	Tanks
Sludge	Liquid	N/A	1200m ³	1 x Thickened Sludge Storage Tank	Tank

4 LOCATION OF FIRE EXTINGUISHERS ON SITE.

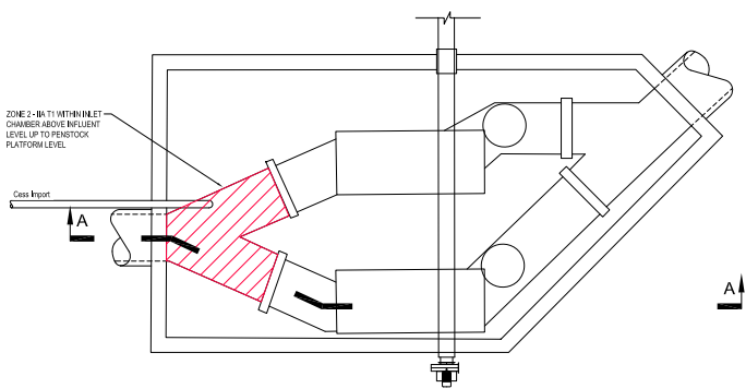
POLLUTION PREVENTION EQUIPMENT INVENTORY (ON AND OFF-SITE RESOURCES)			
ILLUSTRATED ON HAM HILL IMP MAP			
Type	Location	Amount	Staff Contact
Fire Extinguishers	Inside Mess room	5	[REDACTED]
Fire Extinguishers	Inside sludge pumphouse	1	[REDACTED]
Fire Extinguishers	Inside blower house 1&2	5	[REDACTED]
Fire Extinguishers	Inside inlet building & Kiosk	3	[REDACTED]
Fire Extinguishers	Inside centrifuge building	4	[REDACTED]
Fire Extinguishers	Inside Generator room	1	[REDACTED]
Fire Extinguishers	Inside office building	5	[REDACTED]
Fire Extinguishers	Inside digester building	5	[REDACTED]
Chemical Spill Kits	Inside oil store, ferric kiosk and generator room.	3	[REDACTED]

5 WASHATER MAINS & FIRE HYDRANTS (H)





SECTION A-A



PLAN

NOTES
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 2. THIS DRAWING SHOULD BE VIEWED IN CONJUNCTION WITH CANTERBURY WTW DSEAR RISK ASSESSMENT 790158-SWS-WK-CT-DR-Z-0296.

REFERENCES
 790158-SWS-WK-CT-DR-Z-02961 HAZARDOUS AREA ZONING PLAN OVERALL LAYOUT

LEGEND

ZONE 0 - A PLACE IN WHICH AN EXPLOSIVE ATMOSPHERE CONSISTING OF A MIXTURE WITH AIR OF DANGEROUS SUBSTANCES IN THE FORM OF GAS, VAPOUR OR MIST IS PRESENT CONTINUOUSLY OR FOR LONG PERIODS OR FREQUENTLY.

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ZONE 2 - A PLACE IN WHICH AN EXPLOSIVE ATMOSPHERE CONSISTING OF A MIXTURE WITH AIR OF DANGEROUS SUBSTANCES IN THE FORM OF GAS, VAPOUR OR MIST IS NOT LIKELY TO OCCUR IN NORMAL OPERATION BUT, IF IT DOES OCCUR, WILL PERSIST FOR A SHORT PERIOD ONLY.

APPARATUS REQUIRED
 GAS GROUP - BA
 TEMP. CLASS - T1



CURRENT VERSION INFORMATION

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27/04/22	NH	JOC	MT	RM	CO1	A1	Authorised & Accepted - Brief

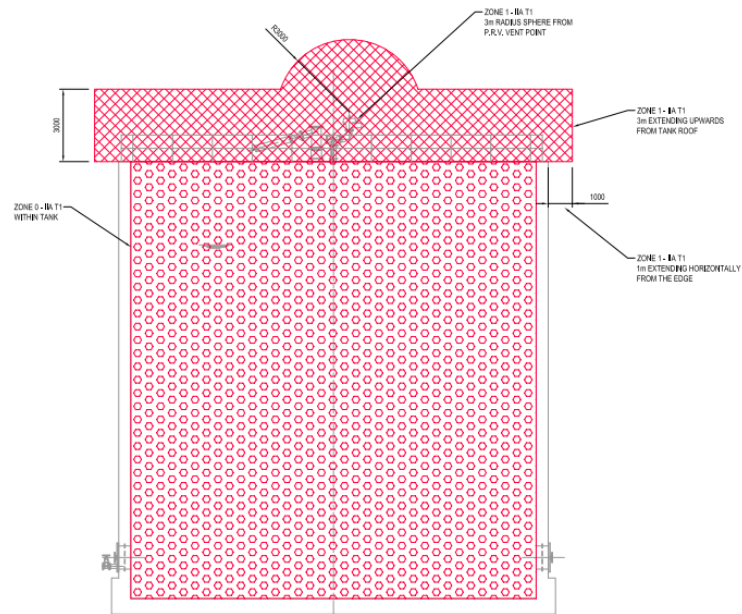
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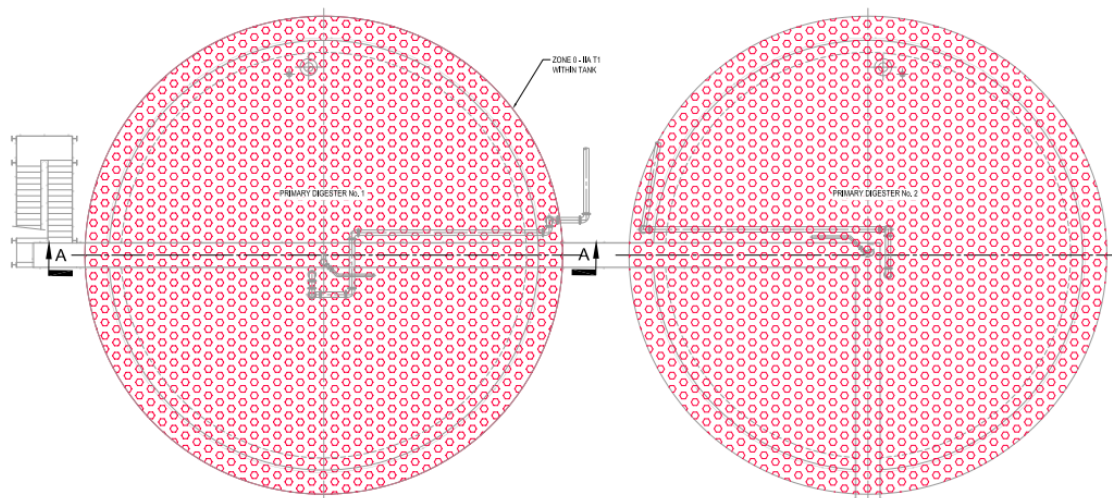
PROJECT TITLE
 DSEAR PROJECT

DRAWING TITLE
 CANTERBURY WTW/STC
 HAZARDOUS AREA ZONING PLAN
 INLET CESS RECEPTION CHAMBER

DATE / REV	DESIGNED	CHECKED	SCALE	STATUS	APPROVED
27/04/22	NH	JOC	1:50	A1	A1
S.W. DRAWING NO.		790158-SWS-WK-CT-DR-Z-02966		PROJECT NO.	
				C01	



SECTION A-A
(STAIRWAY OMITTED FOR CLARITY)



PLAN



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REFERENCES
 790158-SWS-WK-CT-DR-Z-02051 HAZARDOUS AREA PLAN OVERALL LAYOUT

LEGEND

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APPARATUS REQUIRED
 GAS GROUP - IA
 TEMP. CLASS - T1



CURRENT VERSION INFORMATION

DATE	CHKD	REV	APPN	REV	STS	REASON FOR ISSUE	Authorised & Accepted - D/ef
14/04/22	NH	JCC	MT	KM	CD1	A1	Authorised & Accepted - D/ef

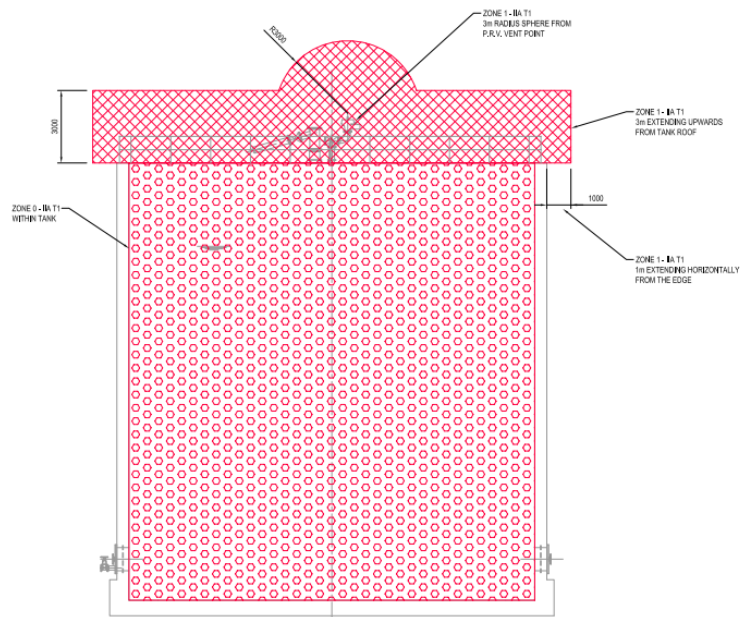
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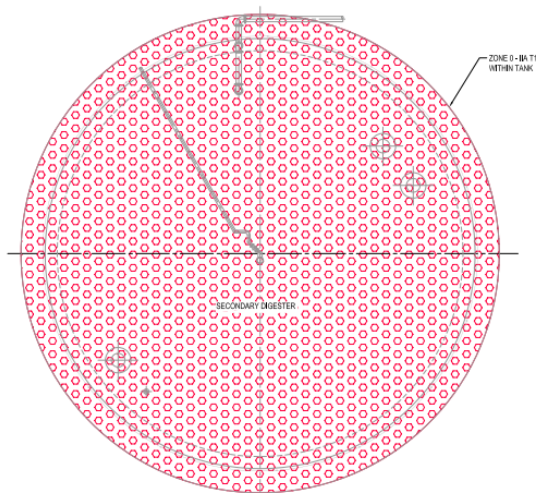
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 DSEAR PROJECT

DRAWING TITLE
 CANTERBURY WTW/STC
 HAZARDOUS AREA ZONING PLAN
 PRIMARY DIGESTERS Nos. 1 AND 2

DATE 14/04/22	SCALE 1:100	NUMBER A1
REV 790158	STATUS A1	REVISION C01
DUP. DRAWING NO. 790158-SWS-WK-CT-DR-Z-02071		



SECTION



PLAN



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REFERENCES
 790158-SWS-WK-CT-DR-Z-02976 HAZARDOUS AREA PLAN OVERALL LAYOUT

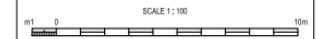
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APPARATUS REQUIRED
 GAS GROUP - IA
 TEMP. CLASS - T1



CURRENT VERSION INFORMATION

DATE	CHKD	REV	APPN	REV	REASON FOR ISSUE	
14/04/22	MM	JOC	MT	KM	CO1	Authorised & Accepted - Djjf

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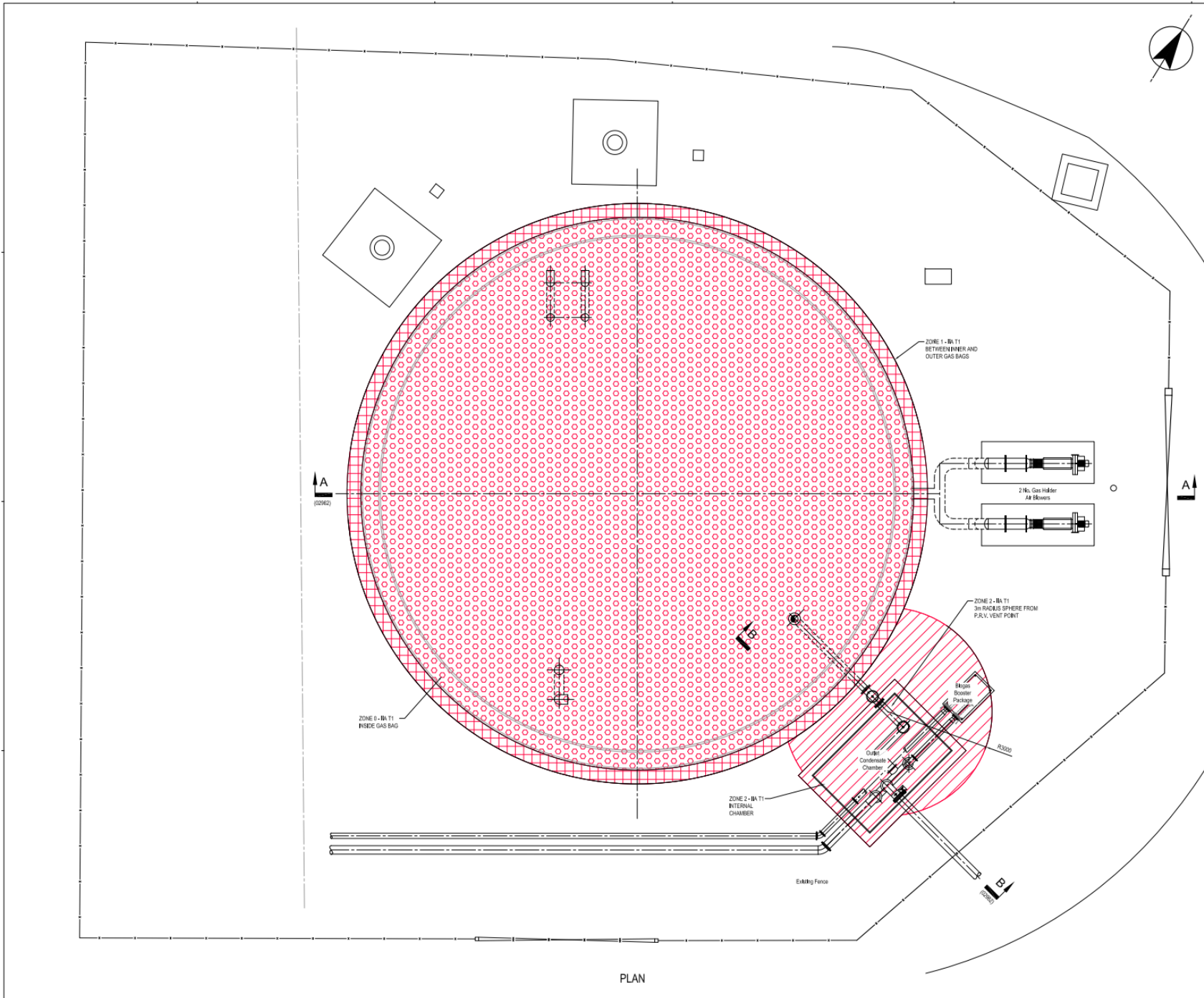
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 Telephone 01903 264444
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PROJECT TITLE
 DSEAR PROJECT

DRAWING TITLE
 CANTERBURY WTW/STC
 HAZARDOUS AREA ZONING PLAN
 SECONDARY DIGESTER

DATE	SCALE	STATUS
790158	1:100	A1

DATE	SCALE	STATUS
790158-SWS-WK-CT-DR-Z-02976	1:100	A1



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REFERENCES
 790158-SWS-WK-CT-DR-Z-02961 HAZARDOUS AREA ZONING PLAN OVERALL LAYOUT
 790158-SWS-WK-CT-DR-Z-02962 HAZARDOUS AREA ZONING PLAN - GAS BAG SECTIONS

LEGEND

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APPARATUS REQUIRED
 GAS GROUP - B1
 TEMP. CLASS - T1



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DATE	CHKD	CHKD	REV	APPN	REV	REV	REV	REASON FOR ISSUE
27/04/22	MH	JOC	MT	HM	D01	A1		Authorised & Accepted - B1&F

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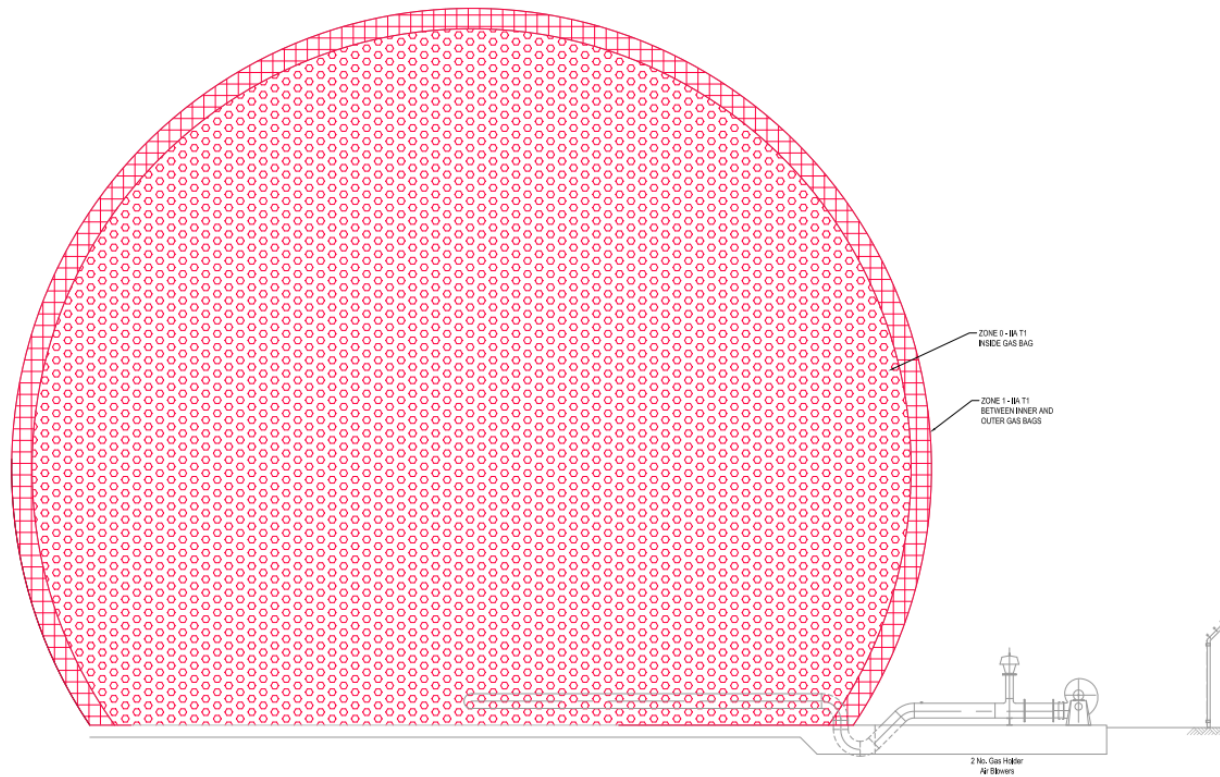
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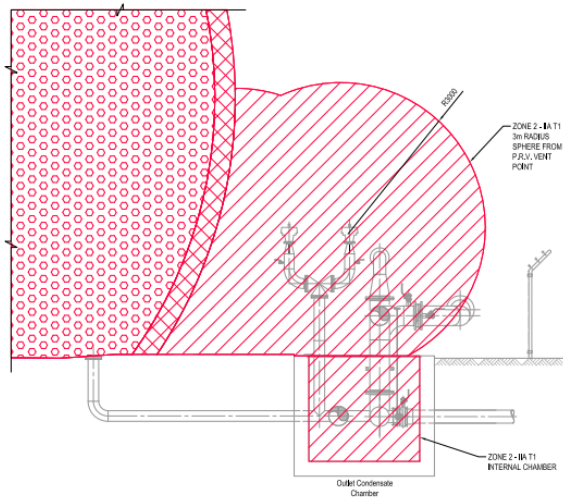
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 CANTERBURY WTW/STC
 HAZARDOUS AREA ZONING PLAN
 GAS BAG
 PLAN

SITE UNIT NUMBER:	790158	SITE UNIT NO.:	SCALE	1:50	MASTER IBS:	A1
PN:		SCALE:			STATUS:	A1
SUP. DRAWING NO.:	790158-SWS-WK-CT-DR-Z-02961	REV. NO.:			REV. NO.:	C01

PLAN



SECTION A-A
(02961)



SECTION B-B
(02961)

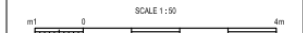
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REFERENCES
 790158-SWS-WK-CT-DR-Z-02961 HAZARDOUS AREA ZONING PLAN OVERALL LAYOUT
 790158-SWS-WK-CT-DR-Z-02961 HAZARDOUS AREA ZONING PLAN - GAS BAG PLAN

LEGEND

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APPARATUS REQUIRED
 GAS GROUP - IA
 TEMP. CLASS - T1



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14/04/22	MH	JCC	MT	KM	CDI	AT	Authorised & Accepted - D/ef

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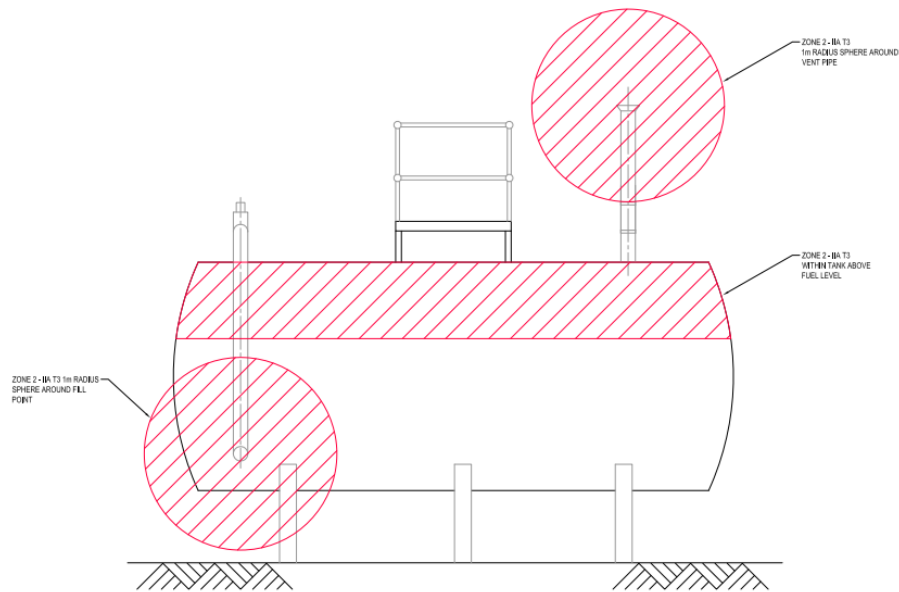
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PROJECT TITLE
 DSEAR PROJECT

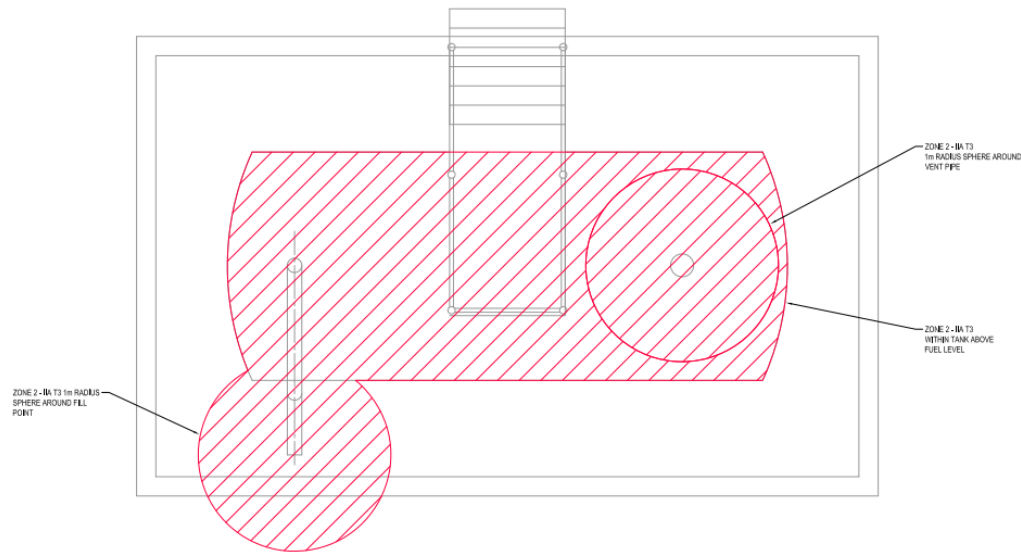
DRAWING TITLE
 CANTERBURY WTW/STC
 HAZARDOUS AREA ZONING PLAN
 GAS BAG
 SECTIONS

DATE	SCALE	STATUS
790158	1:50	A1

DATE	REVISION
790158-SWS-WK-CT-DR-Z-02962	C01



SECTION
(BLIND WALL OMITTED FOR CLARITY)



PLAN



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REFERENCES
 790158-SWS-WK-CT-DR-Z-02981 HAZARDOUS AREA PLAN OVERALL LAYOUT

LEGEND

ZONE 0 - A PLACE IN WHICH AN EXPLOSIVE ATMOSPHERE CONSISTING OF A MIXTURE WITH AIR OF DANGEROUS SUBSTANCES IN THE FORM OF GAS, VAPOUR OR MIST IS PRESENT CONTINUOUSLY OR FOR LONG PERIODS OR FREQUENTLY.

ZONE 1 - A PLACE IN WHICH AN EXPLOSIVE ATMOSPHERE CONSISTING OF A MIXTURE WITH AIR OF DANGEROUS SUBSTANCES IN THE FORM OF GAS, VAPOUR OR MIST IS LIKELY TO OCCUR IN NORMAL OPERATION OCCASIONALLY.

ZONE 2 - A PLACE IN WHICH AN EXPLOSIVE ATMOSPHERE CONSISTING OF A MIXTURE WITH AIR OF DANGEROUS SUBSTANCES IN THE FORM OF GAS, VAPOUR OR MIST IS NOT LIKELY TO OCCUR IN NORMAL OPERATION BUT, IF IT DOES OCCUR, WILL PERSIST FOR A SHORT PERIOD ONLY.

APPARATUS REQUIRED
 GAS GROUP - IIA
 TEMP. CLASS - T3

SCALE 1:25

CURRENT VERSION INFORMATION

DATE	ORIG	CHNG	PREV	APPR	REV	STS	REASON FOR ISSUE
14/04/22	MH	JCC	MT	KM	COY	A1	Authorised & Accepted - Btbf

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PROJECT TITLE
 DSEAR PROJECT

DRAWING TITLE
 CANTERBURY WTW/STC
 HAZARDOUS AREA ZONING PLAN
 STANDBY GENERATOR DIESEL STORAGE TANK

DATE/REV	SCALE	MASTER USER
790158	1:25	A1

SJW DRAWING NO.	REV/REV
790158-SWS-WK-CT-DR-Z-02981	C01

6 FIRE RISK ASSESSMENT

A copy of the Fire risk assessment needs to be stored with this document.

Electronic link to Fire Risk Assessment - [Sturry Road 2022 FRA.pdf](#)

7 COSHH DATA SHEET

COSHH data sheets for chemicals used on site should be Kept in a folder with the Grab Pack.

Electronic link to the Southern Water COSHH data sheets - [COSHH \(southernwater.co.uk\)](https://www.southernwater.co.uk/coshh)

