

# **Trade Effluent Customer Application Form**

## Change History

<b>Version Number</b>	<b>Date of Issue</b>	<b>Reason for Change</b>	<b>Change Control Reference</b>	<b>Sections Affected</b>
V1.0	10/08/2022	CPW070	CPW070	All
V1.1	19/08/2022	CPW070 OAG feedback	CPW070	All
V1.2	23/08/2022	CPW070 Post OAG feedback	CPW070	All
V1.3	04/10/2022	CPW070 Post OAG feedback	CPW070	All

## Trade Effluent Customer Application Form

**Notice for a Trade Effluent discharge into the Wholesaler's Sewerage system or for a modification to an existing Consent to Discharge into a Wholesaler's Sewerage system**

**(in accordance with Water Industry Act 1991, Chapter III Trade Effluent)**

This form should be Submitted to the Wholesaler by yourself (the Non-Household Customer) or your Retailer on your behalf for:

- A new Trade Effluent Consent
- A new Temporary Trade Effluent Consent (a Trade Effluent consent with a maximum duration of 6 months or a Trade Effluent consent for multi-site activities for a maximum duration of 6 months)
- A re-activation of a Trade Effluent Consent
- The variation of a Trade Effluent Consent
- The discontinuation of a Trade Effluent Consent
- The termination of a Trade Effluent Consent.

This form must be completed and signed by the owner or occupier (or authorised signatories) of the premises to which the application relates.

Following acceptance of the application, the Wholesaler may require further detailed information in order to assess the discharge and complete the application, in which case the Wholesaler may request that information from you, your Retailer, and/or by undertaking a site visit.

A separate application should be made for each Trade Effluent discharge made to public sewer from the premises.

**Note that completion of this application form does not constitute approval to discharge Trade Effluent.**

**Temporary Consent services differ between wholesalers**

The form is divided into sections as follows

Number	Section
1.	Retailer details
2.	Type of application
3.	Details of applicant to which the application relates
4.	Variation Information
5.	Trade Effluent discharge description
6.	Trade Effluent monitoring and location
7.	Volume Assessment
8.	Allowances
9.	Information relating to health and safety
10.	Termination of Trade Effluent consent
11.	Discontinuation of Trade Effluent consent

12.	Declaration by the authorised signatory
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**Sections 1, 2, 3, and 12 must be completed for all applications along with the relevant sections depending on service requested. Your Retailer may assist you in completing the application and may make technical enquiries of the Wholesaler using Process G1.**

Please note that sections 1, 3, 6, 7, and 12 of this form may contain or lead to the identification of personal data.

<b>1. Retailer details</b>	
Your Retailer will be the company that is the retail provider for Sewerage Services to the premises and bills for those services.	
Retailer name	...Northumbria Water Ltd ....

<b>2. Type of application</b>		
<b>2.1 Indicate which of the following this application relates to (tick only one)</b>		
a) New Consent	<input checked="" type="checkbox"/>	Please complete sections 1, 2, 3, 5 to 9 and 12
b) New Temporary Consent (a Trade Effluent consent with a maximum duration of 6 months or a Trade Effluent consent for multi-site activities for a maximum duration of 6 months)	<input type="checkbox"/>	Please complete sections 1, 2, 3, 5 to 9 and 12
c) Renewal after discontinuation	<input type="checkbox"/>	Please complete sections 1, 2, 3, 5 to 9 and 12
d) Variation to an existing consent (Including change of company name)	<input type="checkbox"/>	Complete sections 1 to 9 and 12; note this may result in a new consent and termination of the existing consent
e) Discontinuation of Trade Effluent Services	<input type="checkbox"/>	Complete section 1,2, 11 and 12
f) Termination of consent (i.e. discharge has permanently ceased or occupier has moved off the premises)	<input type="checkbox"/>	Complete section 1, 2, 10 and 12
The Non-Household Customer must complete the declaration in section 12.		
If you are required to complete a section as per above, please do not leave a section blank. Please use n/a or '0' as a response or any other response as appropriate.		

**2.2 Consent/DPID/SPID Information**

This information may be quoted on the sewerage bill for the premises, or your Retailer can supply it. *May not be applicable for Temporary Consents*

Provide the Trade Effluent Consent reference number or Discharge Point ID (where there is an existing consent for the discharge)

..... **N/a**.....

Provide any Supply Point ID(s) given to the premises.

..... **Existing Manhole 5801 as per NWL Plans** .....

**3. Details of applicant to which the application relates**

**3.1 Information about the organisation applying for the consent to discharge**

This is the legal body responsible for the discharge and the premises from which the discharge will be made. All legal documentation and notices relating to the Trade Effluent discharge will be sent to this address and copied to your Retailer.

Indicate the legal status of the company or organisation (tick only one)

- Company or body corporate
- Governmental organisation
- Sole trader
- Partnership/Joint Venture

Provide the full legal name of the company. In the case of a sole trader, provide the name of the individual. In the case of a partnership/joint venture, provide the names of all the partners

... **Fujifilm Diosynth Biotechnologies UK Limited**.....

.....  
.....  
.....

Trading name of the company or organisation if different

..... **N/a** .....

**3.2 Registered address and other details**

This may be a private address in the case of a sole trader or partnership

... **Fujifilm Diosynth Biotechnologies UK Limited**,.....

... **Belasis Avenue**,.....

... **Billingham**.....

Postcode ... **TS23 1LH** .....

Is the organisation a registered company? (tick as appropriate)



Yes



No

If yes, Companies House registration number .....

Consents are not transferrable, and therefore a change of legal entity (evidenced by a change of company number) will result in a new application for consent being required.

### 3.3 Trade premises details to which application for consent applies

This is the premises from which the Trade Effluent is to be discharged or is discharged (as applicable).

Same address as above

Address of premises:

Premises Name 1 .....

Premises Name 2 .....

Address Line 1 .....

Address Line 2 .....

Address Line 3 .....

Address Line 4 .....

Address Line 5 .....

Postcode .....

Primary Trade Effluent Contact at the premises

Name of contact ..... **Jo Laing** .....

Job title of contact ..... **EHS Officer (ENV)** .....

Landline telephone number ..... **[REDACTED]** .....

Mobile number ..... **N/a** .....

Email address ..... **jo.laing@fujifilm.com** .....

### 3.4 Operational Information

Provide the operational hours for the premises

..... **24 Hours** .....

Same contact as above

Out of hours contact:

Name of contact ..... **Duty Manager** .....

Job title of contact	..... <b>Duty Manager</b> .....
Landline phone number	..... <b>N/a</b> .....
Mobile number	..... <b>Pager - 07623921175</b> .....
Email address	..... <b>N/a</b> .....

**3.5 Owner of premises**

This information is required in order for contact to be made to the landlord of a site.

Is the company applying for the consent the owner of the premises? (tick as appropriate)



Yes



If it is not the owner, provide:

Name of owner of the premises .....

Address .....

Postcode .....

Telephone number .....

**4. Variation Information**

Reason for Variation

.....

Details of Variation (e.g. change in consent parameters such as volume or determinand limits)

.....

.....

**5. Trade Effluent discharge description**

**5.1 Production of Trade Effluent**

Trade conducted at the premises ..Manufacture of Pharmaceuticals by Biological or chemical means, producing proteins classified as API's (Active pharmaceutical ingredients).....

Describe in detail the process(es) from which the Trade Effluent arises (Please use last page to add further info if required.)

... **There are 4 processes, cell expansion, cell growth, Harvest and purification**.....

.....

**5.2 Trade Effluent treatment**

Trade Effluent treatment to be given at site (e.g. oil separation, balancing, pH correction, chemical or biological treatment)

... **PH Neutralised**.....

... **Temperature reduction before discharge**.....

... **Bio Inactivation**.....

... **Segregation (Segregated waste is connected into IBC and not discharged)**.....

.....

.....

**5.3 Chemicals/substances to be discharged or stored on site (with the potential to be discharged into the public sewer)**

The following cannot be discharged:

- Wastewater greater than 43 degrees centigrade.
- Trade Effluent that gives off an inflammable vapour at less than 23 degrees centigrade.

Indicate if any of the below are relevant to the discharge.

All substances discharged must be declared in this application, and any omission to declare substances discharged or to be discharged will constitute an offence by virtue of Section 118(5) of the Water Industry Act 1991.

You must declare any of the substances listed on the [Environment Agency List of Priority or Hazardous Substances](#) published by the Market Operator. Provide the following information: Use additional sheets if more space is required.

Substance/ Composition	Discharged (tick)	Stored (tick)	Maximum concentration to be discharged (mg/l or ug/l)	Average concentration to be discharged (mg/l or ug/l)	Volume stored on site (litres)
High or Low pH	No		Ph adjusted before discharge		
Solids	No	N/a	N/a	N/a	N/a
Organic Content – Amino Acids	✓	N/a	20g/l	1.4g/l	N/a
Organic Content - Glurox	✓	N/a	10g/l	0.67g/l	N/a

Detergents	Poloxamer Yes	N/a	5g/l	0.335g/l	N/a
Ammonia	No	N/a	N/a	N/a	N/a
Phosphorus – Na Phosphate	✓	No	8g/l	1.2g/l	N/a
Phosphorus – Phosphate content 57%	✓	No	4.56g/l	0.68g/l	N/a
Chloride – Nac1	✓	No	58g/l	6.6g/l	N/a
Chloride – Chloride 61%	✓	No	35.38g/l	4.026g/l	N/a
Fat, Oils or Grease	N/a	N/a	N/a	N/a	N/a
Metals (Total)	✓	No	12.310mg/l	0.8207	N/a
Copper (Cu)	✓	No	0.127mg/l	0.0085mg/l	N/a
Magnesium (Ma)	✓	No	0.055mg/l	0.0037mg/l	N/a
Zinc (Zn)	✓	No	6.538mg/l	0.4359mg/l	N/a
Iron (Fe)	✓	No	5.590mg/l	0.3727mg/l	N/a

Please supply any analytical data supporting this evidence, if available. Please use last page to add further info if required.

#### 5.4 Volume of Trade Effluent

Maximum volume to be discharged (m<sup>3</sup> per 24 hours) **12,5 m<sup>3</sup>... (worst case)**.....

Maximum rate of discharge (litres per second) ..... **20.8... l/s (Peak flow)**.....

Estimated total discharged m<sup>3</sup> of Consent (Temporary Consent only)..... **N/a**.....

Proposed starting date for discharge (or approximate starting date for an existing discharge)

End date (Temporary Consent only) ..... **N/a**.....

Period(s) of discharge within a 24 hour period ... **24Hr... Continuous @ 9.8 l/s**.....

Is this a continuous or batch discharge? (tick as appropriate) .....

Continuous  Batch (intermittent) For peak flow

How is the effluent discharged? .....

Gravity  Pumped

## 6. Trade Effluent sampling and monitoring

### 6.1 Sample Point Location

The sample point must be such that it will provide a sample of the Trade Effluent discharged to the public sewer without domestic sewage contamination, and provide safe and reasonable access at all times

Provide a description of the location of the sample point (and X-Y coordinates or what3words if known):

Location ..... **Liquid Waste Treatment Building**.....

..... **///expert.second.race**.....

### 6.2 Drainage Plan

Enclose a drainage plan for the premises with the following marked on the plan:

- **The location of the sample point**
- **Point of entry into the public sewerage system**, appropriately coloured as follows

**Red** – Sewer network

**Blue** – On-site surface water

**Green** – Trade Effluent

**Brown** – Domestic Waste

Wholesalers will not know your private drainage system. Failure to supply a suitable drainage plan may result in a rejection of your application.

**6.3 Connection to public sewer location**

Please provide XY coordinates, what3words or Street name (or other identifying description) where the connection to the sewer is located

.....**///about.taps.circle**.....

**6.4 Is this a proposed or an existing connection to the Sewerage network? (tick as appropriate)**

Proposed  Existing

Into which Sewerage network is the discharge intended to be made? (tick as appropriate)

Foul sewer  Combined sewer  Direct to waste water treatment works

*Please note that an application into a surface water sewer cannot be accepted.*

**6.5 Is there any Contaminated surface water (rainfall) discharged through the Trade Effluent sample point? (tick as appropriate)**

Yes  No

Contaminated surface area draining through Trade Effluent sample point

..... m<sup>2</sup>

**6.6 Is there monitoring of the discharge, such as pH monitoring? (tick as appropriate)**

Yes  No

If yes, provide further details

.....**At the liquid waste treatment building**.....

.....

**7. Volume Assessment**

**7.1 Are there any private meters that could be used to measure the Trade Effluent?**

Yes  No

Provide all the Supply Meter Serial numbers associated with the discharge (if applicable).

.....

.....**Meter information to follow**.....

.....

.....

### 7.2 Site consumption information

Average water consumption (m<sup>3</sup> per day) ..... **20m3**.....

Average consumption from sources other than mains supply (e.g. borehole, river, sea etc.)(m<sup>3</sup> per day) ..... **N/a**.....

Average number of days worked per week ..... **7**.....

Average number of weeks worked per year ..... **52**.....

Any regular or seasonal closure (if Yes state approximate dates and total days per year)  
..... **No**.....

## 8. Allowances

Please provide details of any water which is not returned to sewer. This may be due to evaporation, use or product or tankered offsite etc.

..... **Segregated Waste (Removed by Tanker)**.....

Please be aware that any Non-Return allowances that may be applied will need to have supporting evidence provided.

## 9. Information relating to health and safety

9.1 Provide details of any particular Health and Safety considerations or access requirements that need to be observed by visitors to the premises such as PPE, induction or the premises is subject to Control of Major Hazards (COMAH) regulations.

..... **PPE & Induction**.....

9.2 Indicate if the Environment Agency (EA) has issued an environmental permit in relation to the premises from which the Trade Effluent is to be discharged (tick as appropriate)

Yes

No

EA Permit type .....

EA Permit number .....

Is application in progress? (tick as appropriate)

Yes

No

## 10. Termination of Trade Effluent consent

This is for a permanent termination where no further Trade Effluent discharge will take place.  
Reason for request for termination:

.....  
.....

Customer Request or Is application in progress? (tick as appropriate)

Customer Request     Retailer Request (Customer no longer present at Premises)

Date of termination of the Trade Effluent Consent .....

Final Meter reading(s) where applicable.....

## 11. Discontinuation of Trade Effluent consent

This is for a temporary cessation of Trade Effluent discharge.

Any subsequent application to reactivate the consent may be subject to conditions.

Reason for request for discontinuation:

.....  
.....

Proposed start date of discontinuation of the Trade Effluent Consent: .....

Expected discharge renewal date: .....

Final Meter reading(s) where applicable.....

## 12. Declaration by the authorised signatory

This application form must be signed by an authorised signatory of the company responsible for the Trade Effluent discharge as set out in section 3 above. Section 118 of the 1991 Act makes it an offence to discharge Trade Effluent without a Trade Effluent Consent. Section 204 of the 1991 Act requires that information regarding the discharge of Trade Effluent must be given and failure to give such information is an offence.

I/we declare that the information given in the application form and any accompanying information is correct to the best of my knowledge and belief and is sufficient to specify all matters (pursuant to S119(2) of the 1991 Act).

I/we acknowledge that there may be a requirement to provide and maintain suitable inspection chambers/effluent treatment/monitoring equipment and for reporting information on the composition and volume of Trade Effluent discharged to sewer.

I/we confirm that I/we accept liability for the Retail Charges in respect of this application and any Trade Effluent Consent granted.

I/we acknowledge that any consent issued will be subject to public disclosure.

Signature

Date (dd/mm/yyyy)

11<sup>th</sup> SEPT 2023

Full name (in capitals)

JONATHAN HAIGH

Role in the company or job title

UK SICK LEAD

For and on behalf of (company name)

FUJIFILM DIASYNTH BIOTECHNOLOGIES

Telephone number

07717300687

Email address

jonathan.haigh@fujifilm.com

Signature

Date (dd/mm/yyyy)

Full name (in capitals)

Role in the company or job title

For and on behalf of (company name)

Telephone number

Email address

Signature

Date (dd/mm/yyyy)

Full name (in capitals)

Role in the company or job title

For and on behalf of (company name)

Telephone number

Email address

## More information

Please use this page to add further information

.....  
.....  
.....  
This trade effluent application is required to support a new manufacturing building which is located at Belasis Avenue Billingham which is being delivered by a project delivery team.

.....  
The project delivery team have selected a Principal Contractor (ISG) in delivering the project and will be responsible for the associated works with connecting to the connection point in conjunction with NWL.

.....  
For any queries in relation to this application , please contact :

**Chris Swanick**

**Snr. Construction Manager**

**FUJIFILM Diosynth Biotechnologies**

**M: (IRL) +353 872422205**

**M: (UK) 07827042607**

**E: [Chris.swanick.contractor@fujifilm.com](mailto:Chris.swanick.contractor@fujifilm.com)**



**[www.fujifilmdiosynth.com](http://www.fujifilmdiosynth.com)**

MaruX media

1). Total amino acids About 10~20 g/L (About 70~140mM)

average aa mW 110

2). Glucose About 5~10g/L (About 30~60mM)

3). Poloxamer About 5~g/L

4). Heavy metal

- Cu 0.002mM or less
- Mn 1nM or less (Almost zero)
- Zn 0.1mM or less

• Fe 0.1mM or less

• Mg 2mM or less

• Ca 0.2mM or less

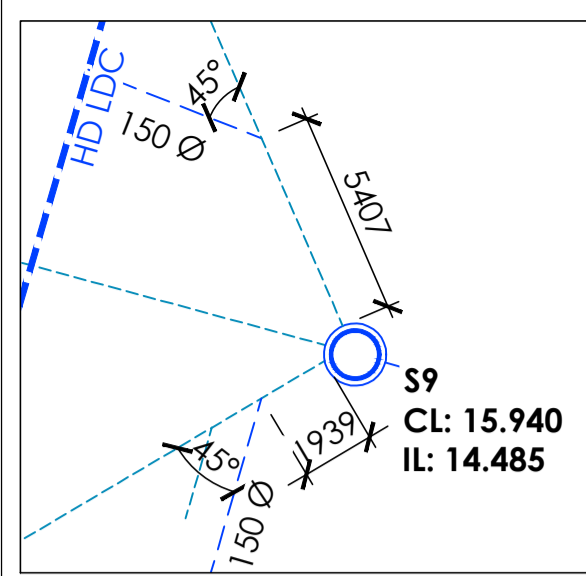
• Na 200~300mM

• K 10mM or less

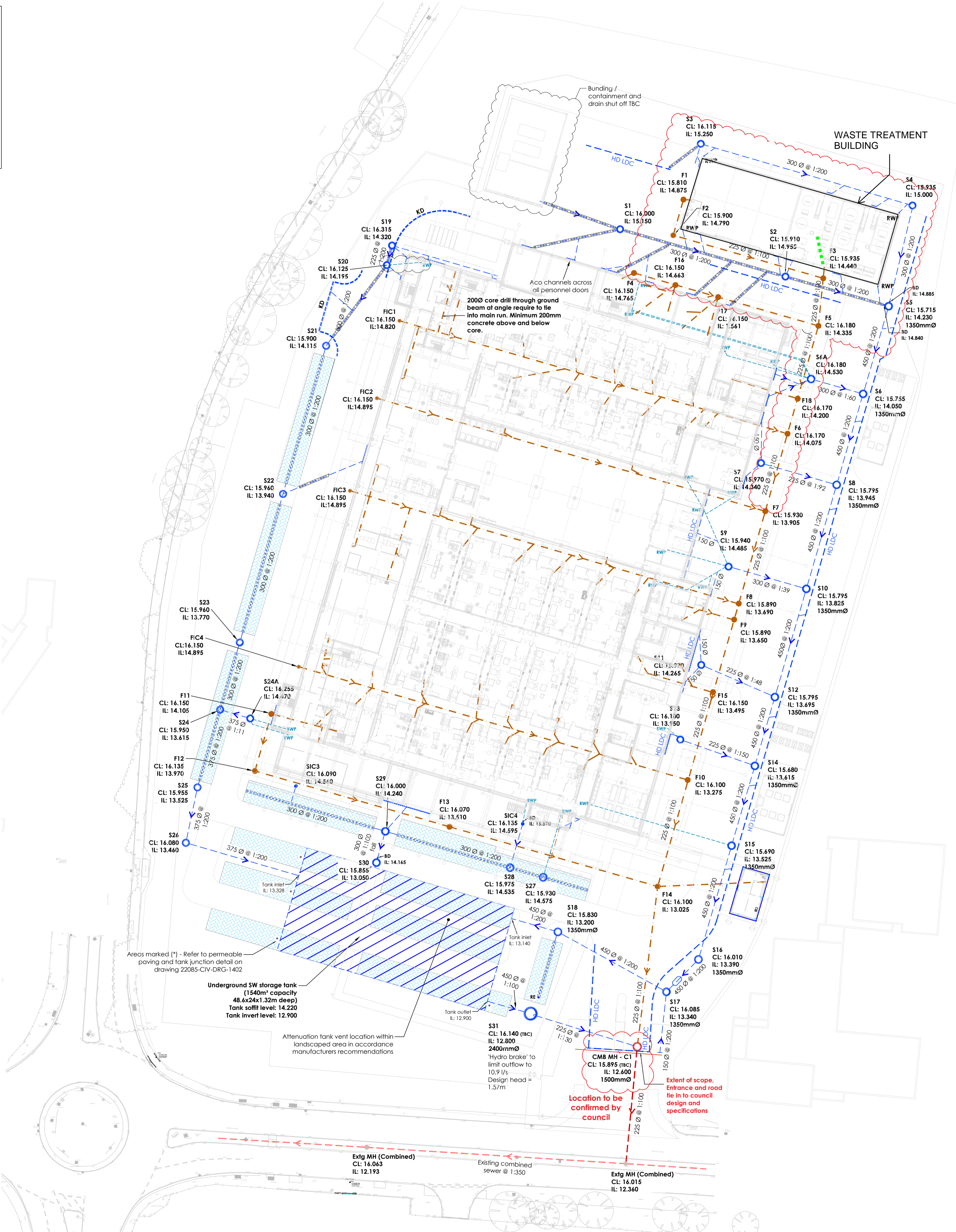
	g/L		MW (g)	mM	mg/L
1)	20		63.55	0.002	0.1271
			54.938	0.001	0.0549
2)	10		65.38	0.1	6.538
3)	5	used for re	55.9	0.1	5.59
			24.3	2	48.6
4)			40.078	0.2	8.016
			22.99	300	6897
			39.098	10	390.98

**Average / batch or 7 days**

Substance / composition	Specific material	Discharge	Stored	Max Concentration to be discharged g/L or mg/L or ug/L	Average Concentration to be discharged mg/L or ug/L	Volume stored on site (L)	Notes
High or Low pH		No					pH adjusted prior to discharged
Solids		No					
Organic content (g/L)	amino acids	yes		20		1.4	ProA load / SUB harvest - MaruX 7x 600L = 4200L or 5K SUB
	glucose	yes		10		0.67	ProA load / SUB harvest
Detergents (g/L)	Poloxamer	yes		5		0.335	non-ionic detergent (bioreactor)
Ammonia		No					
Phosphorous (g/L)	Na-phosphate	Yes		8		1.2	averaged di-sodium-phosphate and di-hydrogen-sodium-phosphi
	Phosphate content (57%)			4.56		0.68	
Chloride (g/L)	NaCl	yes		58		6.6	
	Chloride (61%)			35.38		4.026	
Metals (mg/L)		yes		12.310		0.8207	
	Cu			0.127		0.0085	
	Min			0.055		0.0037	
	Zn			6.538		0.4359	
	Fe			5.590		0.3727	



**BLOW UP OF MANHOLE S9**  
(Scale 1:200)



- KEY**
- Indicates new surface water drains and manholes as noted.
  - Indicates new siphonic surface water drainage to 'Fullflow' design and details
  - Class 1 Bypass separator
  - Indicates new surface water filter trenches and perforated drainage, refer to detail on Drg. No. 22085-STR-DRG-1402
  - KD** Indicates 305x125mm Aco KerbDrain HB305 drainage kerb and gullies. Refer to detail on Drg. No. 22085-CIV-DRG-1402
  - Aco** Indicates Aco channels to pedestrian doorways and within hardstanding area. Heavy duty channels to be used in HGV areas. Refer to details on Drg. No. 22085-CIV-DRG-1402
  - HD LDC** Indicates heavy duty linear drainage channel for use in HGV trafficked areas, refer to details on Drg. No. 22085-CIV-DRG-1402
  - Indicates new foul water drains and manholes as noted. Pipes to be 150Ø @ 1:100 falls U.N.O.
  - Indicates existing combined public sewer
  - Indicates proposed combined sewer
  - Indicates new drains to be concrete protected refer to detail on Drg. No. 22085-CIV-DRG-1401
  - Indicates new permeable block paving with granular attenuation storage under (wrapped in impermeable membrane with no infiltration), 650mm minimum overall depth with 1:150 formation slope towards trenches. Refer to detail on Drg. No. 22085-CIV-DRG-1402
  - Indicates new perforated pipe @ 1:200 (unless noted otherwise) in trench integral with granular storage
  - Indicates cellular attenuation storage under block paving, refer to detail on Drg. No. 22085-CIV-DRG-1402
  - S# / F#** Indicates precast concrete manhole, 1200mm Ø unless noted otherwise, refer detail on Drg. No. 22085-CIV-DRG-1401
  - IC** Indicates 475mm nominal Ø proprietary inspection chamber, refer to detail on Drg. No. 22085-CIV-DRG-1401
  - ST** Indicates silt trap, refer to detail on Drg. No. 22085-CIV-DRG-1401
  - FC** Indicates flow control manhole and device, refer to detail on Drg. No. 22085-CIV-DRG-1402
  - G** Indicates road gully (150mm Ø tail), refer to detail on Drg. No. 22085-CIV-DRG-1401
  - FG** Indicates internal floor gully (150mm Ø tail)
  - RE** Indicates rodding eye, refer to detail on Drg. No. 22085-CIV-DRG-1402
  - SVP** Indicates 150mm Ø pop-up for foul appliance
  - RWP** Indicates 200mm Ø pop-up for rainwater pipe - All internal RWPs to have vertical access points above SSL

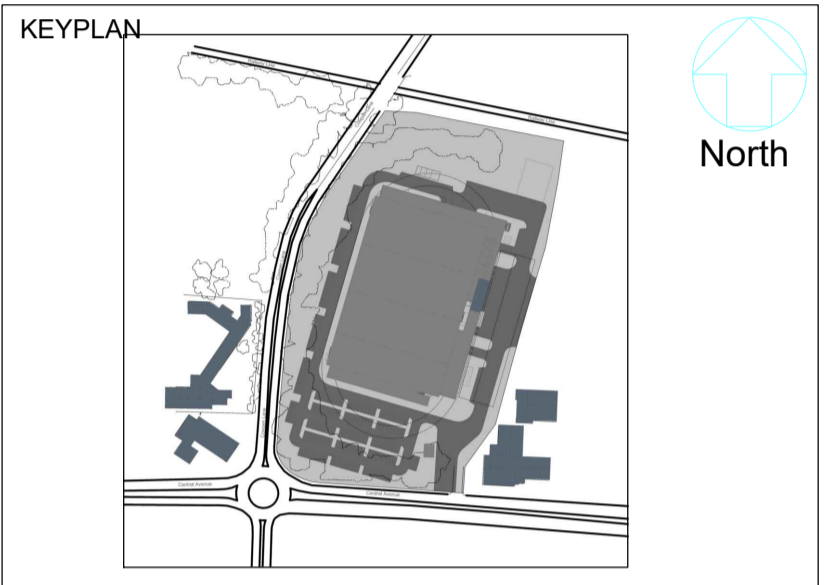
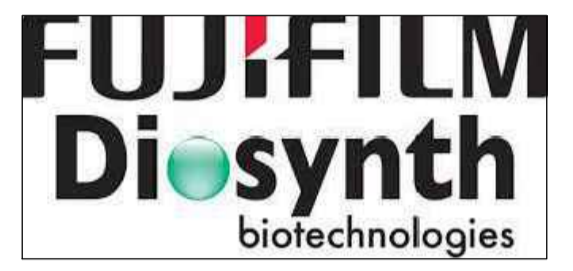
- GENERAL NOTES**
1. This drawing is to be read in conjunction with all relevant survey and archive drawings together with the latest Architect's and Services Engineer's drawings and specification.
  2. All Levels are in metres.
  3. CCTV Drainage survey required to confirm existing drainage.
  4. Refer to Architect's drawings for all setting out information.
  5. All works to be carried out in accordance with relevant Local Authority guidelines.
  6. For details refer to drawing numbers 22085-CIV-DRG-1401 & 22085-CIV-DRG-1402.
  7. Contractor to allow for adjusting positions of manholes locally to suit site conditions.
  8. Manhole cover slabs and covers to be positioned to avoid fouling landscaping features, kerbs, etc.
  9. Allow for re-building all existing manholes at locations of new connections.
  10. All manhole covers within concrete service yard to be E600 rated. All other covers to be D400 rated.



**Integrated Project Services**  
Engineering Design/Build Compliance Consulting  
3120 Park Square, Birmingham Business Park, Solihull Parkway, Birmingham, B37 7YN  
PHONE: +44(0) 121 289 3471  
www.ipsdb.com

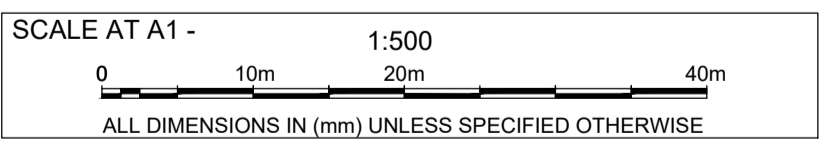
**CONFIDENTIAL**

THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION OF INTEGRATED PROJECT SERVICES.



Document Number  
22085-CIV-DRG-1400  
Revision C7  
Status A  
Mr Matthew Wilson - ISG Ltd  
Sep 1, 2023, 11:31 AM GMT+1:00

REV	DRAWN BY	DATE	CHECKED BY	APPROVED BY
C7	GT	24 Aug 23	SM	ET
C6	GT	11 Jul 23	SM	ET
C5	GT	13 Jul 23	SM	ET
C4	GT	23 June 23	SM	ET
C3	AB	20 June 23	SM	ET
C2	GT	09 June 23	SM	ET
C1	AB	02 June 23	SM	ET
O0	AB	11 May 23	SM	ET
T1	AB	31 March 23	SM	ET
T0	AB	21 Dec 22	SM	ET
P02	GT	31 Aug 22	SM	ET



**PROJECT**  
FujiFilm Borealis

**TITLE**  
Proposed Drainage Plan

**DRAWING No.**  
22085-CIV-DRG-1400

**ISSUED FOR CONSTRUCTION**