

Rialtas Áitiúil  
Local Government

23 July 2008

Environmental Protection  
Agency

25 JUL 2008

Licensing Unit,  
Environmental Protection Agency  
P.O. Box 3000  
Johnstown Castle  
Co. Wexford

Comhairle Chontae  
Loch Garman

Wexford County Council  
County Hall  
Wexford

Tel 053 9176500  
Fax 053 9143406  
email postmaster@wexfordcoco.ie

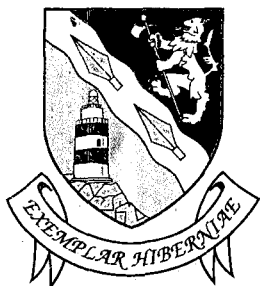
Planning and Development Regulations, 2006

Register No: 20074161

Applicant: GREENSTAR LTD

Proposed: **CREATION OF A MATERIALS RECOVERY AND TRANSFER FACILITY SITE, INCLUDING INTER ALIA A SINGLE STOREY RECOVERY AND TRANSFER BUILDING, A TWO STOREY ADMINISTRATION/STAFF AMENITY BUILDING, TWO NO. WEIGHBRIDGES WITH ASSOCIATED SINGLE STOREY CONTROL ROOM, ASSOCIATED EXTERNAL OPERATIONAL PLANT AREAS INCLUDING ODOUR CONTROL PLANT AND VENTILATION FLUES; SINGLE STOREY ESB TRANSFORMER/SUBSTATION AND SERVICES ROOMS; VEHICLE REFUELLING AND TRUCK WASHING FACILITIES; ALL ASSOCIATED SECURITY AND ACOUSTIC FENCING WITH MOUNDING AND LANDSCAPE PLANTING TO SITE BOUNDARIES, (INCLUDING PERIMETER LANDSCAPE PLANTING TO BOUNDARIES OF ADJACENT SITE IN THE OWNERSHIP OF THE APPLICANT); FUEL TANKS AND ASSOCIATED BUND WALLS, HARD STANDINGS INCLUDING SKIP STORAGE, PLANT STORAGE, VEHICLE AND CYCLE PARKING, AND ALL OTHER ASSOCIATED SITE WORKS INCLUDING TWO MAIN VEHICULAR ENTRANCE/EXIT POINTS UNTO THE EXISTING OLD DUBLIN ROAD. THIS PROJECT IS THE SUBJECT OF AN APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY, FOR A WASTE LICENCE, TO INCLUDE ACTIVITIES CONSISTING OF WASTE SEGREGATION, WASTE RECOVERY, WASTE STORAGE, WASTE TRANSFER INTO VEHICLES FOR REMOVAL OFF SITE, ALL OF WHICH ARE DESCRIBED IN DETAIL IN AN ACCOMPANYING ENVIRONMENTAL IMPACT STATEMENT (E.I.S.) WHICH IS BEING SUBMITTED TO THE PLANNING AUTHORITY WITH THIS APPLICATION.**

100 Years of Community Service  
Céad bliain ag tabhairt seirbhíse don phobal



Rialtas Áitiúil  
Local Government

Location: **CLAVASS, ENNISCORTHY RURAL**

*A Chara,*

Pursuant to the above Regulations and Directive, I wish to notify you of the receipt by this Planning Authority on the **26 November 2007** of an application for **PERMISSION** as described above.

Comhairle Chontae  
Loch Garman

Wexford County Council  
County Hall  
Wexford

Tel 053 9176500  
Fax 053 9143406  
email postmaster@wexfordcoco.ie

A copy of the map showing the location of the proposed development is enclosed for your information, and I would be glad to receive any observations or recommendations you wish to make with respect to this application. The rest of the documentation and the drawings may be inspected at these offices or on our website, [www.wexford.ie/planeng](http://www.wexford.ie/planeng)

Any observations or recommendations received by the Planning Authority before the decision is made on the application will be taken into account in accordance with Article 28(2) of the Planning and Development Regulations, 2006.

Mise, le meas,

Senior Staff Officer  
Planning and Development

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*100 Years of Community Service  
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20074167

**FOUL & SURFACE WATER**  
**DRAINAGE CALCULATIONS**

Environmental Protection  
Agency  
25 JUL 2008

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PROJECT: GREENSTAR,  
WASTE FACILITY,  
ENNISCORTHY, Co. WEXFORD

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PLANNING SECTION

DATE: NOVEMBER 2007  
JOB NO.: D1080  
ISSUE: PLANNING  
COMPILED: BURKE JENKINS CONSULTING ENGINEERS LTD.

20074167

**SURFACE WATER**  
**DRAINAGE CALCULATIONS**

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**GREENSTAR WASTE FACILITY, ENNISCORTHY, Co. WEXFORD**

**SHEET 01**  
**NETWORK 1**

Summary of Storm Design Output

D 1080

Rev. A

DATE: 8 July '08

Self cleansing velocity	=	0.80 m/s
Pipe roughness (k)	=	0.6 mm
Rainfall intensity (i)	=	50 mm/hr
Routing coefficient (C <sub>r</sub> )	=	1.3
Volumetric run-off coefficient (C <sub>v</sub> )	=	0.75

- 1) Rainfall is 5 year return +20% for climate change
  - 2) Velocities determined using the Colebrook-White Equation.
  - 3) Surface run-off is determined by the modified rational method
- BLUE - Input Cells**  
**RED - Output Cells**

Sewer Reference	Area ha	Discharge l/s	Dia mm	Radius mm	Gradient		C <sub>full</sub> m <sup>3</sup> /s	V <sub>full</sub> m/s	Capacity l/s	Colebrook-White Equation		
					1 in	Slope				Prop Depth	Depth mm	Velocity m/s
S1-S2	0.1690	22.90	225	113	50.0	0.020	0.074	1.85	74	38%	86	1.65
S2-S3	0.1690	22.90	225	113	300.0	0.003	0.030	0.75	30	65%	146	0.83
S3-S4	0.3147	42.65	225	113	35.0	0.029	0.088	2.22	88	48%	108	2.19
S4-S5	0.5655	76.64	300	150	40.0	0.025	0.176	2.49	176	45%	135	2.40
S5-S6	0.5655	76.64	300	150	90.0	0.011	0.117	1.66	117	58%	174	1.77
S9-S6	0.5106	69.20	375	188	300.0	0.003	0.115	1.04	115	55%	206	1.09
S6-S7	1.0761	145.84	450	225	300.0	0.003	0.186	1.17	186	66%	297	1.30
S7-S8	1.0761	145.84	450	225	300.0	0.003	0.186	1.17	186	66%	297	1.30

Area	Total Area (m <sup>2</sup> )	Cumulative Area (m <sup>2</sup> )
S1-S2	1690	1690.0
S2-S3	0	1690.0
S3-S4	1457	3147.0
S4-S5	2508	5655.0
S5-S6	0	5655.0
S9-S6	5106	5106.0
S6-S7	0	10761.0
S7-S8	0	10761.0

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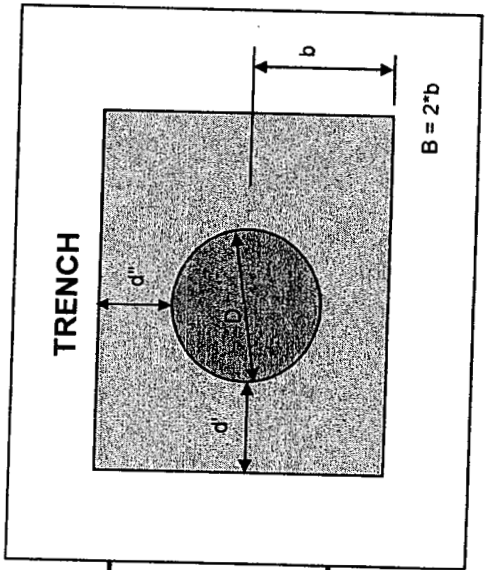
15 JUL 2008

PLANNING SECTION

JOB: Greenstar Waste Facility - Enniscorthy REF: D1080  
DESIGNED: R.S. DATE: 08 May '08

**SOAKWAY DESIGN : TRENCH**

Inputs	Time (mins) t	Rainfall (mm) R	Inflow (m <sup>3</sup> ) I	Required Trench Length (m) L
A = 10873 Impermeable Area (m <sup>2</sup> )	5	0	0.0	0.0
B = 4 Filtration Area to 1/2 Effective Depth	10	0	0.0	0.0
f = 0.00049224 Filtration Coefficient (m per min)	15	11.8	128.3	22.8
S = 5.59128 Storage CSA (m <sup>2</sup> )	30	15.5	168.5	29.8
	60	19.4	210.9	36.9
	120	25.3	275.1	47.2
	240	32.4	352.3	58.1
	360	38.7	420.8	66.8
	600	0	0.0	0.0
	720	48.6	528.4	75.4
	1440	59.5	646.9	76.8



D = 1.2  
d' = 1.4  
d'' = 1.4

Actual L(m)	TIME TO EMPTY
77	218658 mins Or 3644.30 hrs

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**Burke Jenkins**  
*Consulting Engineers*

Unit G3, Calmount Business Park, Ballymount, Dublin 12  
Phone: 01-450 0694 Fax: 01- 426 4340 Email: uburke@indigo.ie

***FOUL  
DRAINAGE CALCULATIONS***

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**Burke Jenkins**  
Consulting Engineers

Unit G3, Calmount Business Park, Ballymount, Dublin 12  
Phone: 01-450 0694 Fax: 01-426 4340 Email: uburke@indigo.ie

200/4161

SUBJECT: **SEWER FOUL BASED ON DISCHARGE UNITS**

PROJECT: GREENSTAR,  
WASTE FACILITY,  
ENNISCORTHY, Co. WEXFORD

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GREENSTAR WASTE FACILITY, ENNISCORTHY, Co. WEXFORD

SHEET 1 of 1

Summary of Foul Design Output

D1080

Rev. A DATE: 8 July '08

- 1) Foul drainage designed in accordance with BS 8301.
- 2) Velocities determined using the Colebrook-White Equation
- 3) Fluid is water at 15° C (kinematic viscosity is  $1.141 \times 10^{-6}$ )

Pipe roughness (k) = 0.60 mm

Sewer Reference	D.U.	Flow l/s	Dia mm	Radius mm	Gradient		Q <sub>full</sub> m <sup>3</sup> /s	V <sub>full</sub> m/s	Capacity		Colebrook-White Equation	
					1-in	Slope			l/s	Prop.	Depth mm	Velocity m/s
F1-F2	40	3.4	225	113	100.0	0.010	0.052	1.31	52	17%	38	0.75
F2-F3	40	3.4	225	113	50.0	0.020	0.074	1.85	74	14%	32	0.94
F3-F4	40	3.4	225	113	50.0	0.020	0.074	1.85	74	14%	32	0.94
F4-F5	40	3.4	225	113	20.0	0.050	0.117	2.94	117	11%	25	1.28
F5-F6	40	3.4	225	113	20.0	0.050	0.117	2.94	117	11%	25	1.28
F6-F7	40	3.4	225	113	100.0	0.010	0.052	1.31	52	17%	38	0.75
F7-PUMP	40	3.4	225	113	100.0	0.010	0.052	1.31	52	17%	38	0.75

Discharge Units Ratings	Bath → 7 D.U.		WC → 7 D.U.	
	Washbasin	→ 1 D.U.	Sink	→ 6 D.U.

SEWER REFERENCE	UNIT Ref/ No	No. of APPLIANCES			APPLIANCES D.U.			No of D.U. / Unit		No of D.U. / Pipe
		Bath	Washbasin	WC	Bath	Washbasin	WC	Sink	Sink	
F1-F2			7	3	0	7	21	12	40	40
F2-F3					0	0	0	0	40	40
F3-F4					0	0	0	0	40	40
F4-F5					0	0	0	0	40	40
F5-F6					0	0	0	0	40	40
F6-F7					0	0	0	0	40	40
F7-PUMP					0	0	0	0	40	40

20074161

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## TRIAL PIT LOG

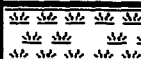
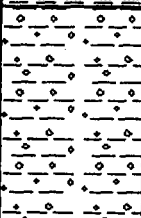
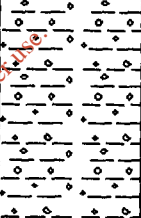
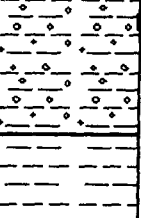
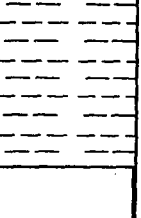


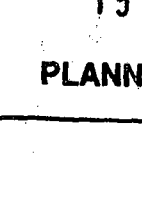
CONTRACT: Greenstar

TRIAL PIT NO: TP-1

LOCATION: Enniscorthy

DATE: 19/03/2008

METHOD OF EXCAVATION: Track Mounted Excavator

DESCRIPTION	BOREHOLE DEPTH (m)	SYMBOLIC LOG	SAMPLE TYPE	DEPTH (m)/ Reading (ppm)
Topsoil	Metres (m)			
Stiff brown Clay with very occasional gravels.	0.5m			
	1.0m			
	1.5m			
Very stiff to hard grey Clay.	2.0m			
	2.5m			
	3.0m			
	3.5m			

**Comments:**  
 Pit walls stable to completion.  
 No groundwater encountered.

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**Enniscorthy**

Paramter	TP-2	TP-3
Width (m)	1	1
Length (m)	3	3.5
WC Depth (m)	1.5	1.5
Test Depth (m)	0.731	0.804
Time (min)	495	495
Volume (m <sup>3</sup> )	2.193	2.814
Surface Area (m <sup>2</sup> )	9	10.25
Infiltration Rate (m/s)	8.2042649E-06	9.2436561E-06
Infiltration Rate (m/d)	0.709	0.799

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SINCE 1882

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# WHITNEYMOORE

WhitneyMoore Solicitors, Wilton Park House, Wilton Place, Dublin 2, Ireland.  
T: (353 1) 611 0000 F: (353 1) 611 0090 DX: 105 Dublin  
E: ecomms@whitneymoore.ie W: www.whitneymoore.ie

Malcolm Dowling Esq  
Greenstar  
BY E-MAIL: malcom.dowling@greenstar.ie

our ref: MC/eb

your ref:

9<sup>th</sup> May, 2008

RE: ENNISCORTHY PREMISES

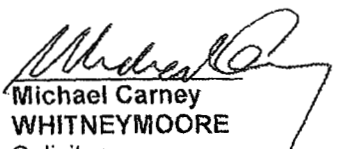
Dear Malcolm

Further to your query in connection with the service position pertaining to the above site I enclose a copy of Special Condition 12 of the Contract under which we purchased the site from which you will see that the vendor agreed that you not only had the right to relocate the foul sewer pipe, pumping station and surface water pipe currently running across the middle of the property to such alternative positions and locations as you may designate at your own cost but that in addition you had the right to connect into the surface water pipe running along the bottom of the site at such point or points as you may determine.

I trust this clarifies the position.

Kind regards.

Yours sincerely

  
Michael Carney  
WHITNEYMOORE  
Solicitors

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Partners	Frank O'Reilly	Thérèse Rochford	Michael Doran	Stephen Walker	Associates	Victoria Riordan	Roisin Caulfield	Consultant
Henry Tighe	Mark Ryan	Michael Carney	Billy Parker		Adrienne Bergin	Susan O'Reilly	Julie Fitzgerald	Paul Hayes
Peter Hayes	Gerard Carroll	John Lynch	Audie Murphy		Ann Harvey	Brendan Ruggose		

WhitneyMoore is part of the Euro-American Lawyers Group with associated offices in Europe and North America.

VAT NO. IE00566651

20074161

12. The Vendor agrees that the Purchaser shall have the right (whether prior to or after completion) to relocate the foul sewer pipe, pumping station together with surface water pipe currently running across the middle of the Subject Property to such alternative positions and locations as the Purchaser may designate at the cost of the Purchaser. In addition the Purchaser shall have the right to connect into the surface water pipe running along the bottom of the site at such point or points as it may determine.

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**Pumping & Treatment Systems**

Existing System

### Design Basis

450 people @ 65l/head/day

Total daily flowrate: 29.25m<sup>3</sup>/day

Flowrate over 12 hours: 29.25m<sup>3</sup>

Average hourly flowrate: 0.75l/s

Peak hourly flowrate: 3l/s

Static Head: 13m

Friction head: 10m

23m

Sump depth: 2m

Total head: 25m

Duty: 3l/s @ 25m

### Holding Tank

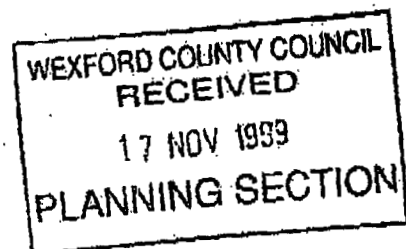
We suggest using an arrangement based around precast concrete tanks commoned at a high with an overflow pipe, and commoned at a low level with a flap valve.

### Details of Discharge Manhole

We would advise introduction of the pumped sewage at 500mm above invert of receiving manhole.

OC 993158

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Pumping & Treatment Systems

E.P.S. propose to supply and install the following:

**Item No. 1**

1 No. Duty/standby set of sewage pumps.

Pumps type:	Submersible wet well
Manufacturer:	Homa
Model:	M2330-N62
Outlet:	100mm
Solids Handling:	77mm
Control:	Auto by floats
Motor:	75kW/400V/3 Phase

00993158

**Item No. 2**

2 No. Autocouplings, guiderails, top brackets, lifting chains  
 2 No. Sets of discharge pipework, gate valves and non-return valves.

**Item No. 3**

1 No. Control panel to include:  
 2 No. Star delta starters, overloads  
 2 No. HOA  
 1 No. Duty selector  
 1 No. Autochangeover on trip

**Item No. 4**

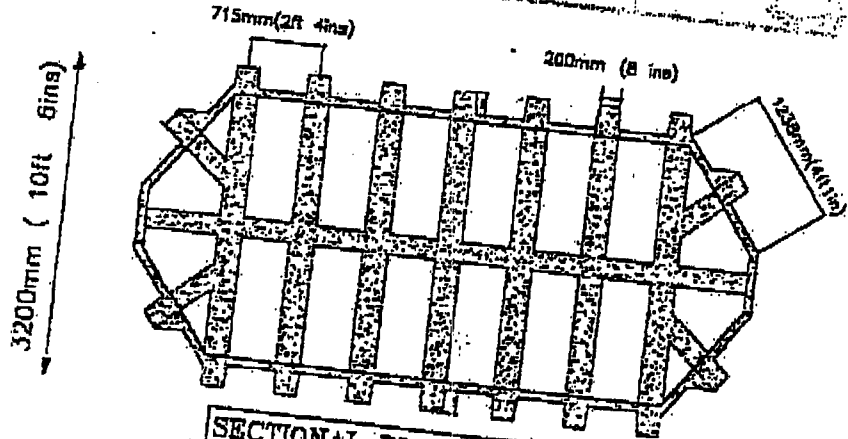
1 No. Installation/wiring/commissioning

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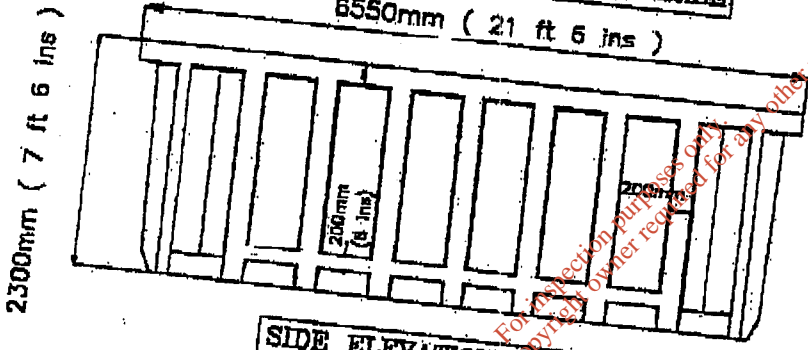
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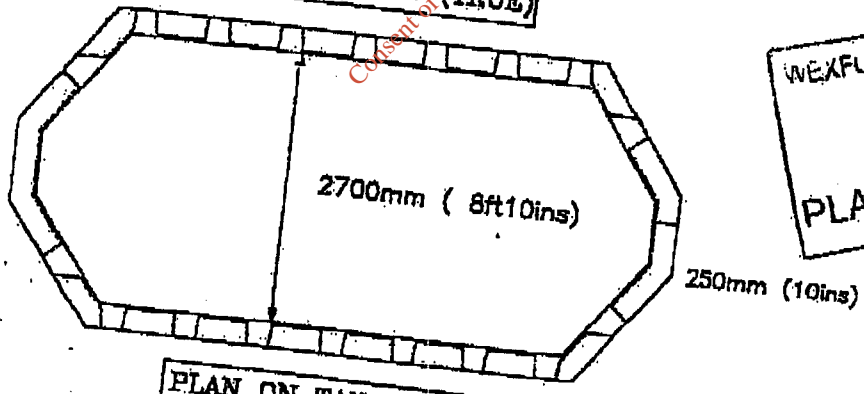
# 7000 GALLON TANK



SECTIONAL PLAN ON TANK BASE



SIDE ELEVATION (TRUE)



PLAN ON TANK RIM

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DEPTH ( Internal )	: 2000mm ( 6ft 7ins )
DEPTH ( External )	: 2300 mm ( 7ft 6ins )
WEIGHT ( without lid )	: 18.00 TONNES
WEIGHT ( with lid )	: 21.00 TONNES

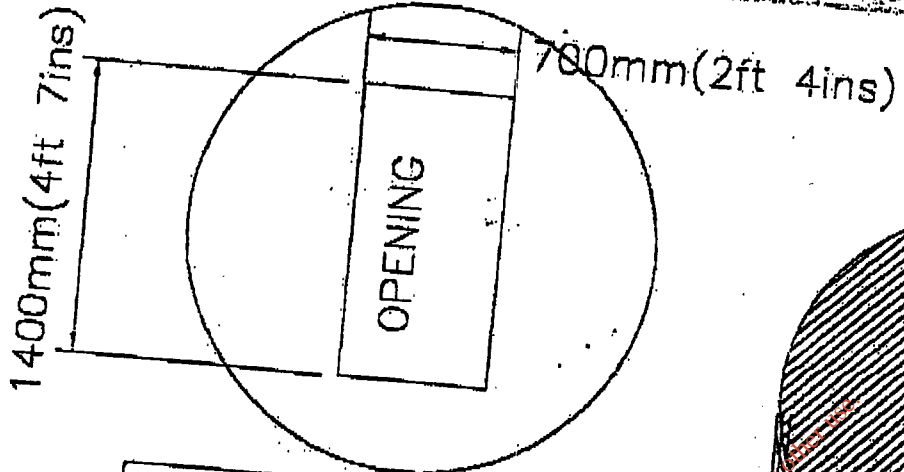
VOLUME	: 32 cubic metres ( 7000 gallons )
LENGTH ( External )	: 6550 mm ( 21ft 6ins )
LENGTH ( Internal )	: 6050 mm ( 19ft 10ins )
WIDTH ( External )	: 3200 mm ( 10ft 6ins )
WIDTH ( Internal )	: 2700 mm ( 8ft 10ins )

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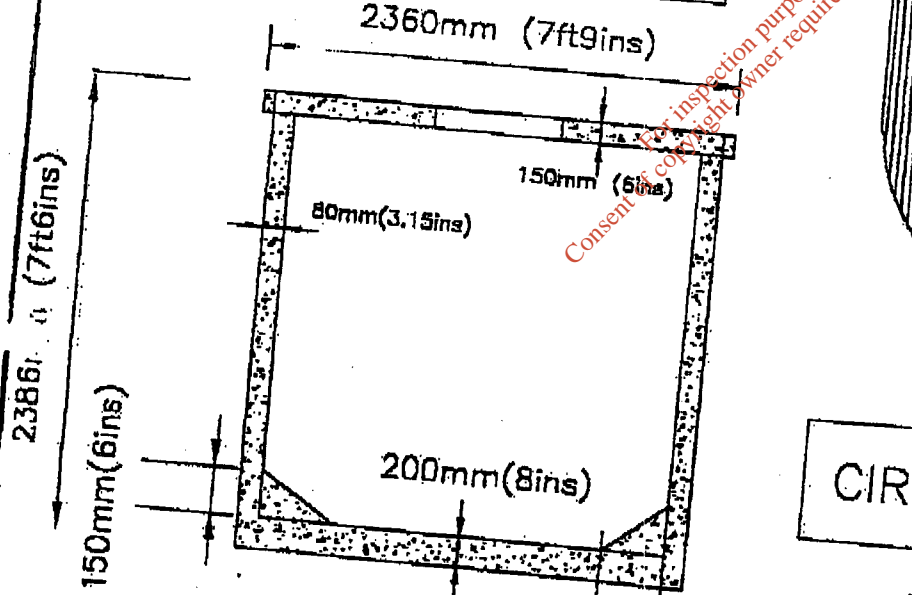
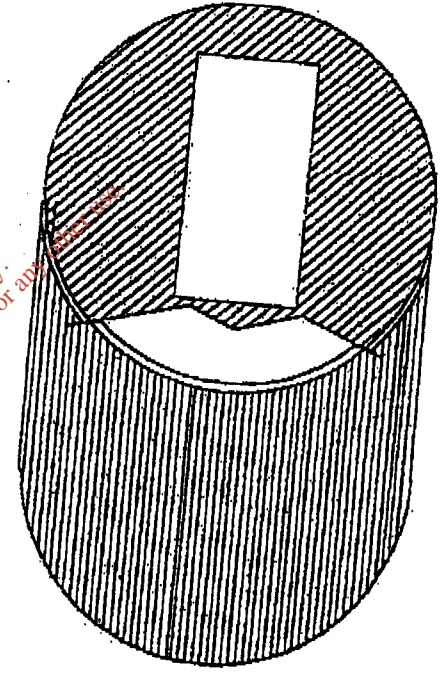


Note: This tank can be extended in 1.0m sections.  
00993158

# 1500 GALLON PUMP CHAMBER



PLAN VIEW OF TANK LID



SECTION THROUGH TANK

CIRCULAR TANK

DEPTH ( Internal )	: 2000mm ( 6ft 7ins )
DEPTH ( External )	: 2386 mm ( 7ft 10ins )
WEIGHT ( without lid )	: 4.50 TONNES
WEIGHT ( with lid )	: 6.00 TONNES

VOLUME	: 6.82 cubic metres ( 1500 gallons )
DIAMETER ( External )	: 2286 mm ( 7ft 6ins )
DIAMETER ( Internal )	: 2100 mm ( 6ft 10ins )
WIDTH ( External )	: 2286 mm ( 7ft 6ins )
WIDTH ( Internal )	: 2100 mm ( 6ft 10ins )

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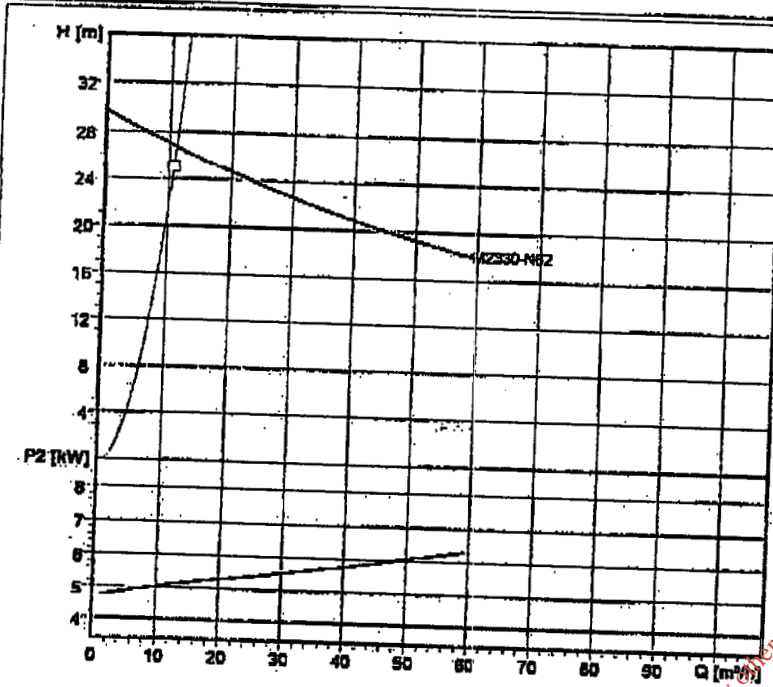
20074969

01.993158

**HOMA Pumpenfabrik GmbH**

Postfach 2283 • D-53814 Neunkirchen-Seelscheid  
Telefon 02247 / 702-0 • Fax 02247 / 702-44

**M2330-N62**



**M2330-N62**

**Operating data specification**

Flow	10.800 m³/h
Head	25 m
Fluid	Wastewater
Temperature	20 °C
Density	0.99830 kg/dm³
Viscosity	1 mm²/s
Nature of system	Single-head pump
Nos. of pumps	1
Frequency	50 Hz

**Pump data**

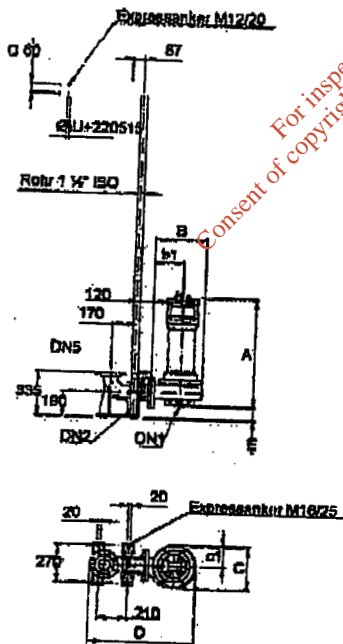
Pump type	M2330-N62
Discharge port	DN100
Free passage	77 mm
Impeller type	Single channel impeller, closed
Impeller size	150 mm
Max. pump efficiency	45.7 %
Max. shaft power P2	6.31 kW

**Motor data**

Nominal speed	2900 rpm
Rated voltage	400 V
Nominal power input P1	7.50 kW
Nominal shaft power P2	6.50 kW
Rated current	13.4 A
Starting current, direct starting	71.3 A
Starting current, Star-Delta	23.8 A
Service factor	1.15
Insulation class	F
Degree of protection	IP68

According to ISO 2548/C

Wet well installation with auto coupling kit DN80



**Operating pump and motor data**

Flow	11.2 m³/h
Head	26.7 m
Pump efficiency	16 %
Power input P1	5.88 kW
Shaft power P2	5.08 kW

**Cable data**

Main cable	10G1.5 H07RN-F
for nom. voltage and starting mode	Star-delta

**Dimensions [mm]**

A	B	b1	C	c1
633	365	200	307	146
D	E	DN1	DN2	DN4
767	147	100	100	60

**Materials W1-M232**

Motor housing Grey cast iron GG25	Pump housing Grey cast iron GG25	Impeller Grey cast iron GG25	Wear ring Bronze
Motor shaft Stainless steel	Bolts Stainless steel	Mechanical seal on medium side Silicon carbide/ silicon carbide	Mechanical seal on motor side Silicon carbide/ silicon carbide

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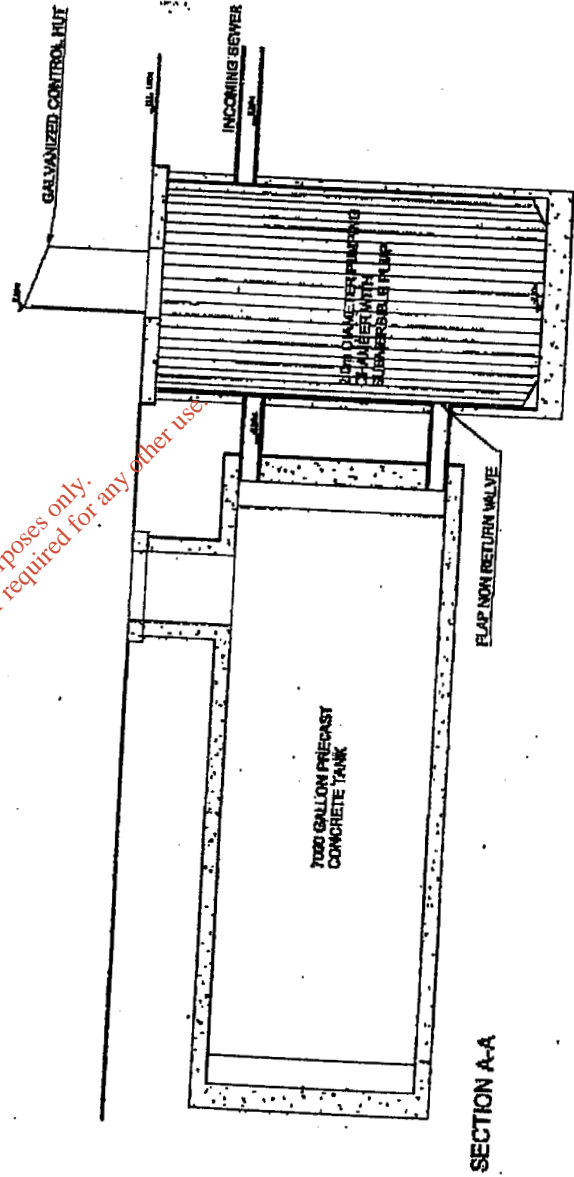
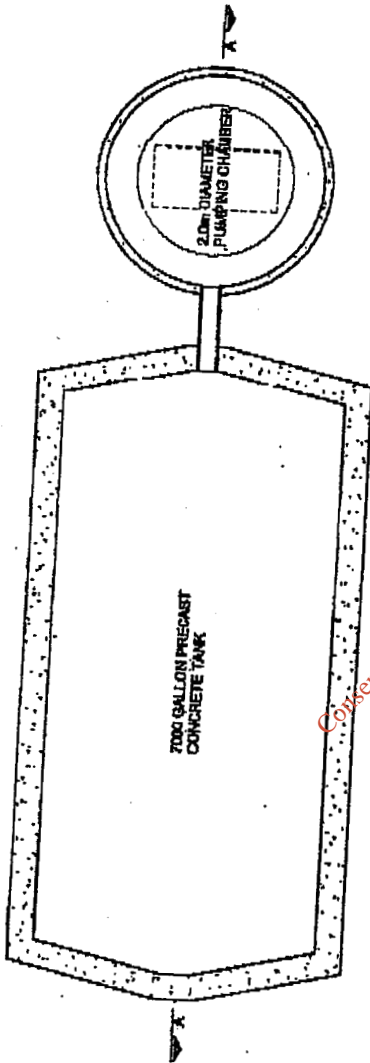
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**CONROY ARCHITECTS**  
ARCHITECTS AND ENGINEERS  
1000 W. 10th Street  
Lawrence, KS 66044  
Phone: 785-842-1111  
Fax: 785-842-1112  
E-mail: conroy@conroyarchitects.com

Client: Wexford County Council  
Project: Pumping Chamber & Storage Tank Details  
Scale: 1/8" = 1'-0" (Overall) 1/4" = 1'-0" (Detail)  
Date: 07/14/08  
Drawing No: 1000-01  
Revision: 1



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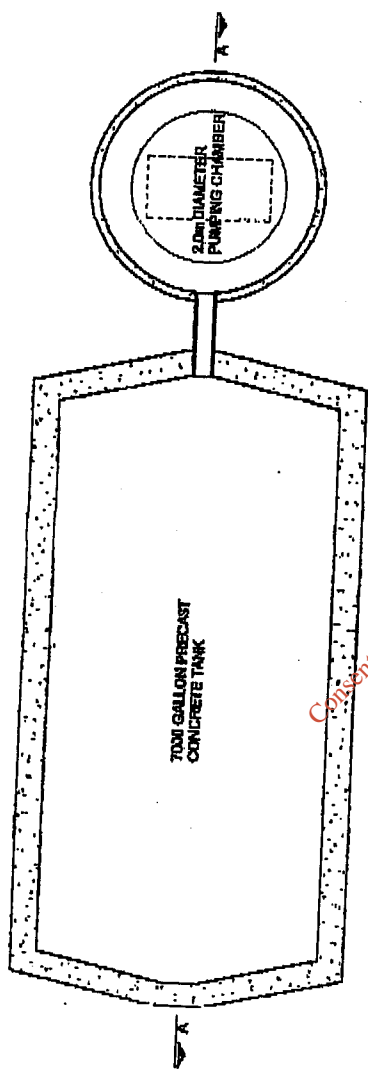
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**CONROY ARCHITECTS**

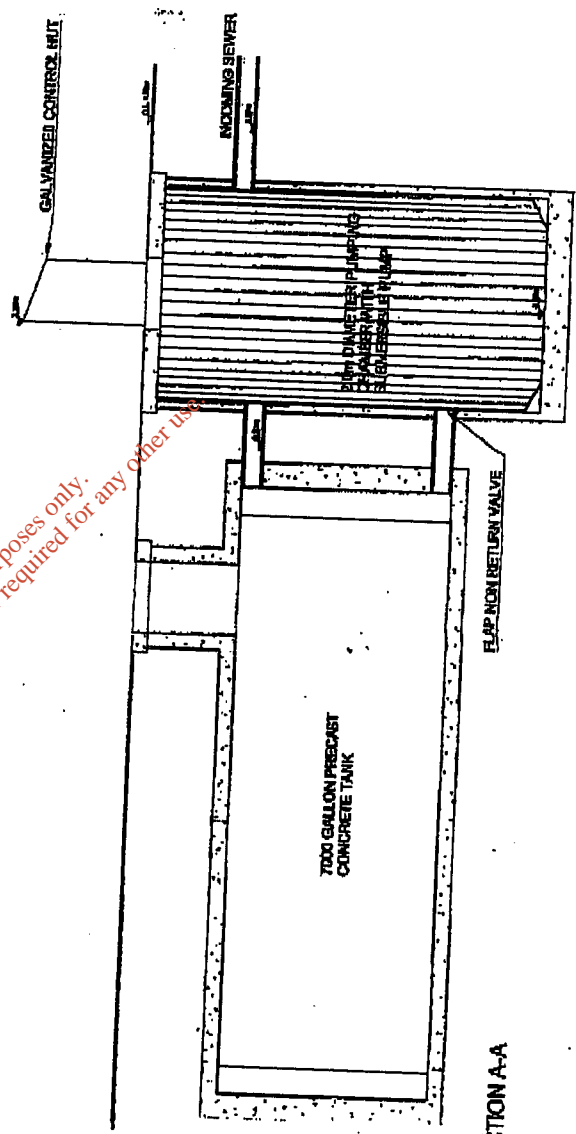
1000 North Main Street  
 Suite 100  
 San Francisco, CA 94102  
 Phone: (415) 774-1100  
 Fax: (415) 774-1101  
 Email: info@conroy.com

Planning Chamber & Storage Tank Details  
 Scale: 1/8" = 1'-0"  
 Date: 11/17/99  
 Drawn By: JTB  
 Check By: JTB

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PLAN



SECTION A-A

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# DETAIL OF RISING.

Plan. FROM ENNISCOLTHY BUSINESS PARK  
EXISTING PUMP STATION TO LOCAL AUTHORITY TOWN SEWER

SK 001 MOYNE LOWER  
NTS.



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Fax. 014264340



We know how water works

ABS Pumps Ireland Ltd.  
ABS House,  
Riverview Business Park,  
New Nangor Road,  
Dublin 12.

Tel. 01 4608 888 (Main Line)  
053 91 40271 (Direct Line)  
Fax 053 91 43283

E-mail brian.morris@absgroup.com

From:

Brian Morris

ABS Pumps Ireland Ltd.,  
Clonard Road,  
Wexford.

# TELEFAX

Page 1 of

Date: 9 April, 2008 Fax No. 053 92 37385

To: Matt Murphy

Company: \_\_\_\_\_

Copy to: \_\_\_\_\_

Your ref.: \_\_\_\_\_

Our ref.: \_\_\_\_\_

Re: AFP 0834.1 M110/2D

Matt,

As discussed, please find attached the technical specification and duty curve for the pump, as detailed below, supplied by ABS Pumps Ireland.

<b>Date Provided:</b>	No. of Pumps:	1
	Medium:	Waste Water
	Flowrate:	3.5 l/s (required for self-cleansing)
	Total Head:	7.5 m
	Distance:	0.7 mile - 1,126.3 m
	Power Supply:	3 phase
	Rising Main:	80mm uPVC (Specified)

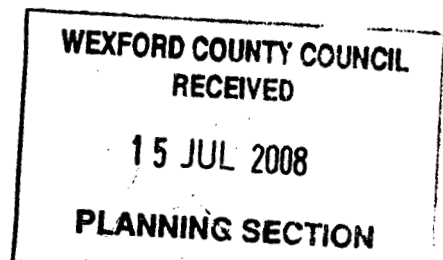
**Pump:** An AFP0834.1-M110/2D will perform this duty.

<b>Installation:</b>	Wet Well
<b>Motor Power P2:</b>	11 kW
<b>Speed at 50 Hz:</b>	2900 rpm
<b>Rated Current:</b>	22.1 amps
<b>Cable Length:</b>	10m
<b>Discharge:</b>	DN80
<b>Impeller:</b>	Vortex
<b>Solids Passage:</b>	80 mm
<b>Safety Features:</b>	Stator Temperature Monitoring (Klixons) Mechanical Seal Monitoring (DI-System)

If we can be of further assistance please do not hesitate to contact us.

Yours sincerely,

Brian Morris  
Sales Support Technician

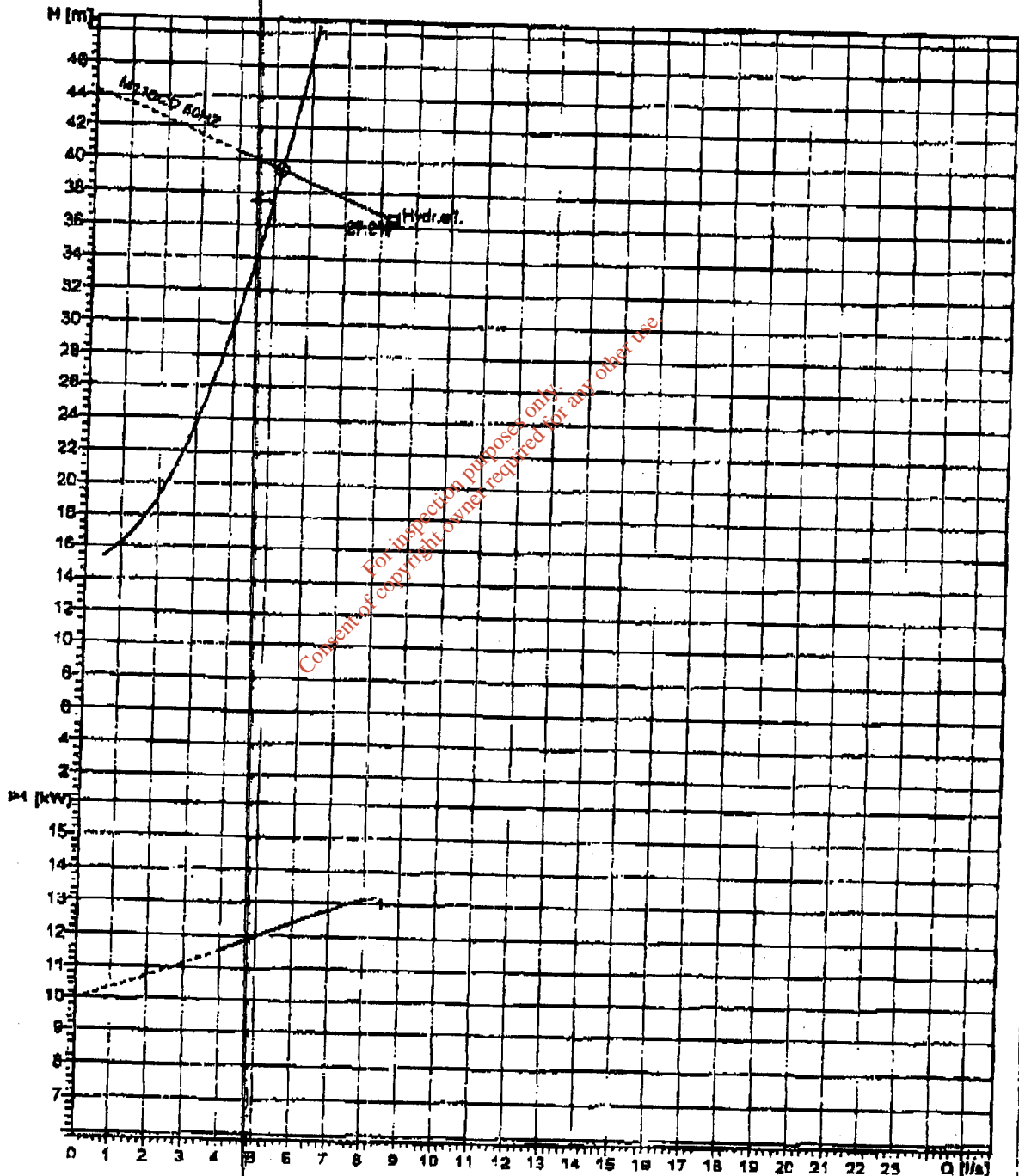


20074161



**Pump performance curves**  
**AFF 0834- 50 Hz.**

Matt Murphy Density 1 kg/dm <sup>3</sup> Flow 5,22 l/s		Viscosity 1.67 mm <sup>2</sup> /s Head 39,4 m		Test programme ISO 9906 - Annex A1/A2 Rated power 10 kW		Discharge DN80 Rated speed 2900 rpm Hydraulic efficiency 20.1 %		Curve number Reference curve AFF 0834 Frequency 50 Hz Date 2008-02-22 NPSH 2.3 m	
--	--	--	--	--	--	--	--	--	--



Impeller size 212 mm  
 N° of vanes 8  
 Impeller Vortex Impeller  
 Solid size 80 mm

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### AFP 0834 50 Hz

Matt Murphy

#### AFP/M1-ME3

Robust, reliable ABS submersible sewage pumps from 1.3 to 30 kW for the dewatering of buildings and sites in private, commercial and communal areas and in industry.

Water pressure-tight encapsulated fully flood-proof motors in standard or explosion-proof versions. Hydraulics with CB (ContraBlock) system or vortex impellers.

Can also be supplied with cooling jacket on request for dry sump applications.

Capacity up to 820 m<sup>3</sup>/h  
Head, max. 82 m

Type: AFP 0834 50 Hz

#### Technical data

Delivery rate	: 5.22 l/s
Delivery head	: 32.4 m
Hydr. efficiency	: 20.8 %
Total efficiency	: 15.7 %
Shaft power	: 10 kW
Speed	: 2900 rpm
Impeller type	: Vortex impeller
Motor output	: 11 kW
Voltage	: 400 V
Frequency	: 50 Hz
Suction outlet	: DN80
Discharge outlet	: DN80

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Messblatt AFP 0631/0832/0834 Nassinstallation  
 Dimension sheet WET-WELL Installation  
 Dimensioni Installazione sommersa  
 Hoja de dimensiones instalacion sumergida  
 Plan d'encadrement installation noyée

No: AN-M.22.23-04  
 Drawn: 21.06.06/20, Witten  
 Issue Date: 04.11.07  
 Änderungen vorbehalten  
 Technical changes reserved  
 Con riserva di modifiche  
 En reserve de modifications  
 Sous réserve de modifications

50 Hz

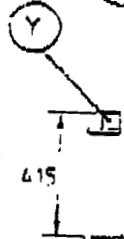
60 Hz

S.I.

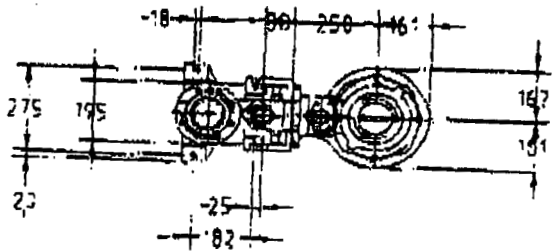
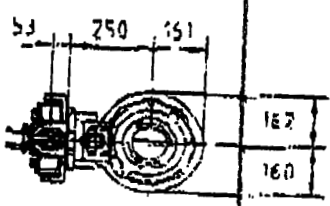
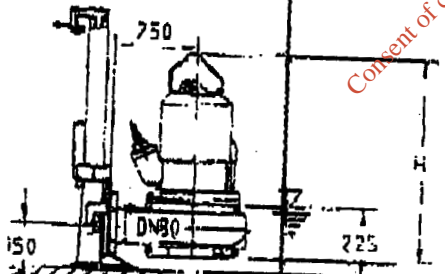
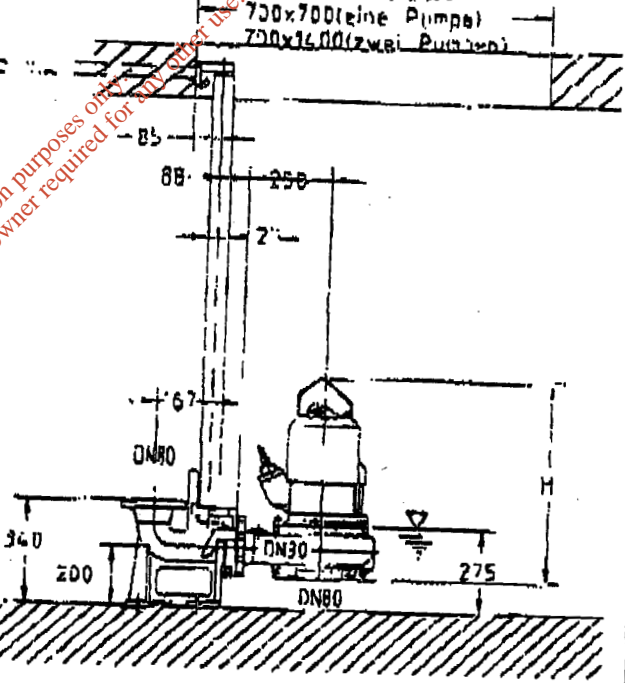
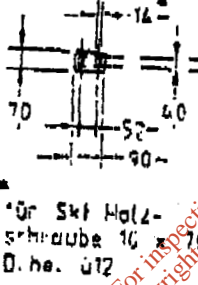
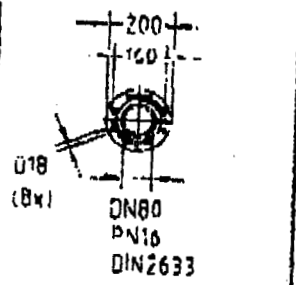
Type Typo	Weight Poids Masa (kg)	H (mm)
M 13/6	85.6	65
M 15/6	85.6	65
M 22/6	85.6	65
M 30/6	87.6	65
M 40/7	89.6	65
M 70/2	118.5	696
M 110/2	127.9	746

Type Typo	Weight Poids Masa (kg)	H (mm)
M 13/6	85.6	65
M 18/6	85.6	65
M 22/6	85.6	65
M 28/6	87.6	65
M 35/6	89.6	65
M 80/2	118.5	696
M 125/2	127.9	746

Order No	Y (mm)
04 80	
6 235 0048	
6 237 0030	



min. Anschliffhöhe  
 min. Sumpptiefe  
 Dimensione min. pozzo  
 min. apertura del pozo  
 Hauteur min. du puits



Gewicht: Beinhalter Pumpa und Halterung  
 Weight: Includes pump and holder bracket  
 Il peso include il pezzo intermedio  
 Peso: Incluye bomba y jaula  
 Poids: Pompe et l'accessoire

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**Motor performance curve**  
**M110/2D 50HZ**

Frequency  
50 Hz

Matt Murphy

Rated power  
11 kW

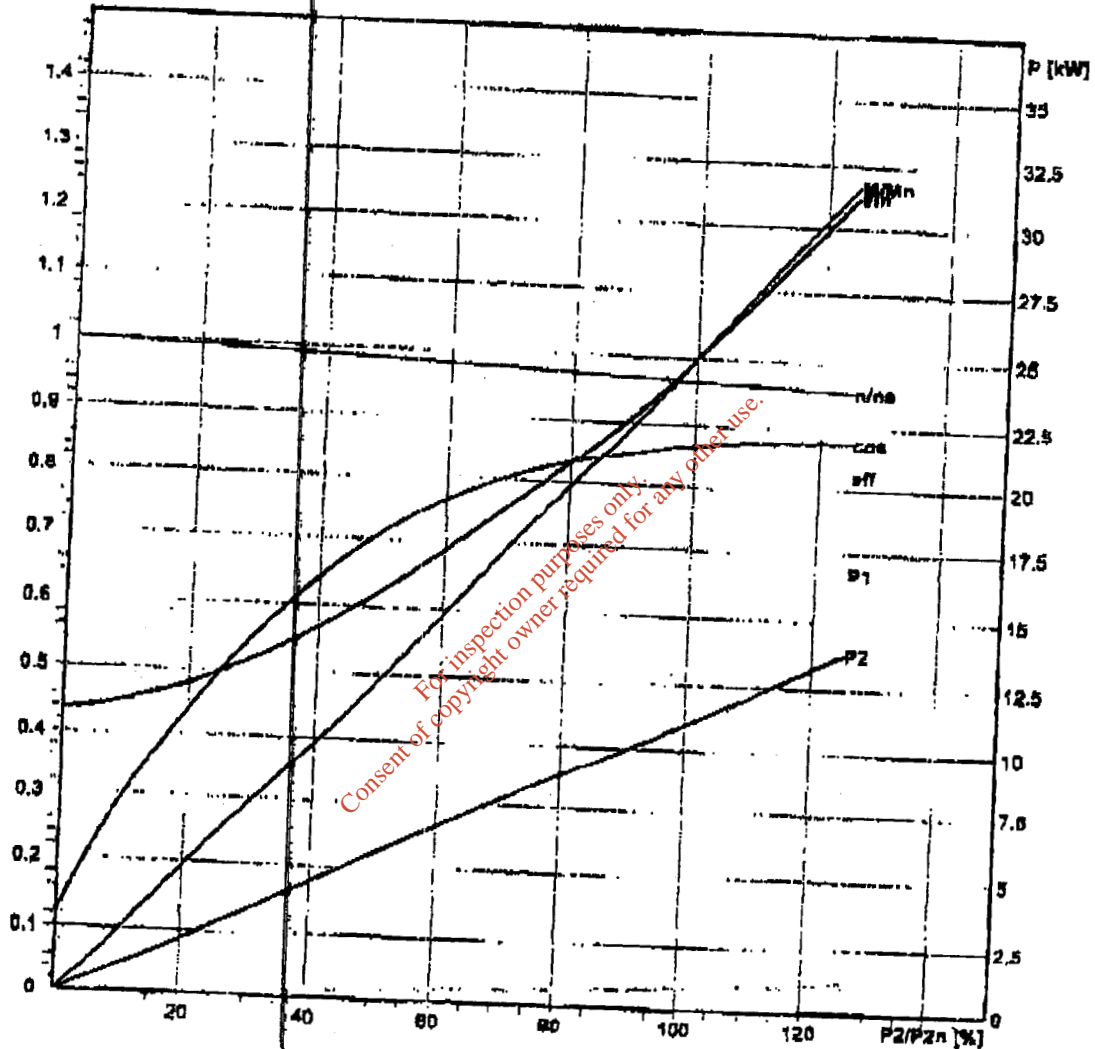
Service factor

Nominal speed  
2900 rpm

Number of poles  
2

Rated voltage  
400 V

Date  
2008-02-22



Loading	No load	25 %	50 %	75 %	100 %	125 %
P1 [kW]	0.815	5.804	6.793	9.98	13.27	18.75
P2 [kW]	0	2.75	5.5	8.25	11	13.75
I [A]	9.838	31.01	43.78	57.52	72.08	87.6
eff [%]	0	46.87	80.97	82.84	82.88	82.08
cos phi	0.1227	0.4987	0.7116	0.8204	0.8673	0.8758
n [rpm]	2999	2979	2958	2929	2898	2863
M [Nm]	0	8.815	17.77	26.9	36.25	45.88
s [%]	0.03347	0.8993	1.488	2.388	3.401	4.587

Tolerance according to VDE 0530 7.1 2.54 for rated power

Starting current 153 A	Starting torque 80 Nm	Moment of inertia 0.0104 kg m <sup>2</sup>
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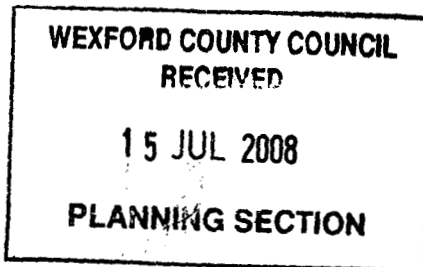
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ASSET PRO T/T/2008-03-17  
15 JUL 2008  
PLANNING SECTION  
TOTAL P.14

20074161

Planning Department  
Wexford County Council,  
Old Dublin Road,  
Enniscorthy,  
Co. Wexford.

Attn: Ms. Deirdre Kearns,  
Executive Planner,

MM/ef  
10<sup>th</sup> July 2008



**Re: Request for Additional Information in regard to Proposed Enniscorthy Materials Recovery and Transfer Facility, at Clavass, Old Dublin Road, Enniscorthy, Co. Wexford, for Greenstar Limited Your Ref. No. 2007-4161**

19 Pembroke Road,  
Ballsbridge, Dublin 4  
Tel: 01 212 0000  
Fax: 01 212 0001  
EMAIL: mmarch@indigo.ie

Dear Sirs,

I refer to your Request for Additional Information, (RAI), dated January 28<sup>th</sup> 2008 in regard to the above planning application. On behalf of our client, *Greenstar Ltd*, we set out herein our responses, accompanied by 7 copies of the supporting documentation, as set out in the attendant schedules. Additionally we enclose 7 A3 copies of this documentation for ease of reference along with copies of our newspaper advertisement and site notice. 7 copies of the revised Environmental Impact Statement, EIS, reflecting the requirements of the RAI are also enclosed.

We have below in this explanatory letter, used the same nomenclature as set by yourselves in the issued RAI and where the specific response to the request is particularly long, we have referred to supporting documentation, either in the form of drawings, or as enclosed within the resubmitted EIS document. In regard to this latter item, we enclose addendum alterations to the EIS previously submitted, which addresses directly the concerns raised through the RAI.

We trust that the additional information requested, and provided, will facilitate you in adjudicating in a positive manner on the proposal submitted, and we look forward to hearing from you in due course.

**RESPONSES TO ADDITIONAL INFORMATION**

- The applicant is advised that there is no public surface water sewer in the vicinity of the site and that the existing private system is deficient. Please submit alternative proposals and include details of all landownership/way-leaves etc. The applicant is advised that planning permission would be required for the laying of such pipe-work. The applicant is advised that they must demonstrate that the proposed development and any associated drainage works will not have a negative impact on the local road network or adjoining N11. Please also provide details for surface water attenuation and flow control. The applicant is advised to consult with adjoining landowners and the Area Engineer prior to the submission of further information in this regard.***

**Martin Murray**  
Dipl Arch B Arch Sc  
Dipl Proj Mang M Arch UD MRIAI

Also at:  
Tara Court, Dublin Road,  
Naas, Co. Kildare  
Tel: 045 898 222  
Fax: 045 899 700  
E-mail: mmarch@indigo.ie

(a) We accept that there is no public surface water system in the vicinity of the proposed development. As requested we have met with both the adjoining landowner and the local area engineering staff. I can confirm that on the 22<sup>nd</sup> of February last we met with Mr. Craig Innes (Area Engineer) and Ms Sinead Casey, (Roads) at the local area office in Enniscorthy. (Mr Jim Power has also been consulted with regarding roads, see below.) We also met again with Mr Craig Innes on July 1<sup>st</sup> last. At these meetings we discussed a variety of issues such as the existing drainage network as understood and the use of percolation areas. Our course of action is based on these meetings.

(b) We have opted to discharge locally within the site and to this end have carried out on-site percolation tests to demonstrate the suitability of the soil to accept surface water run-off from the subject site. Details of the tests and results are enclosed for your information.

(c) A revised drainage layout has been prepared incorporating the various planning changes and our revised drainage layout serving the subject site is included in the AI package for your information.

(d) It is not proposed to attenuate the flow as this is deemed unnecessary where surface water discharges to ground. It is proposed however to incorporate inspection chambers, a petrol interceptor and silt traps prior to discharge to the percolation area. Again details and locations of these items are enclosed for your information.

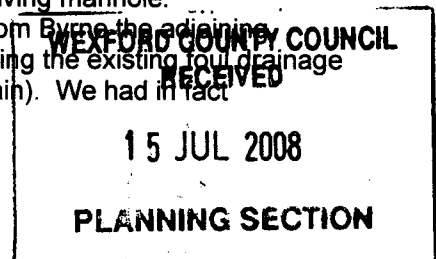
(e) As requested our client also had a meeting on the 27<sup>th</sup> of February last, with the adjoining landowner Mr. Tom Byrne, with a view to confirming our proposals in regard to: 1) Surface Water, 2) Foul and 3) Water Supply. During this meeting, held at offices in the adjoining business park, it was agreed in principal that our client, Greenstar Ltd are entitled to divert the existing drainage that runs across our property. There were no areas of disagreement and we further detail the extent of this meeting below, (see also 2 and 3 below).

(f) We have also as referenced above had an additional meeting, on July 1<sup>st</sup> last, with the area engineer, prior to this resubmission, and our response to the issues raised under this item 1 is based primarily on those discussions, and is we believe to the satisfaction of the Local Authority. Please note also, that the applicant site is also now enlarged to reflect the entire landholding of the applicant Greenstar Ltd.

2. ***The applicant is advised that there is no public foul sewer in the vicinity of the site and that there is apparently a defective treatment plant located on the lands in the applicant's ownership to the south. The applicants have not provided details of right of way/way-leaves to use the existing private systems which connect the proposed development to the public system c.950m further south. Furthermore the applicant has not demonstrated that there is adequate capacity or condition in these pipes to accommodate the proposed development. The applicant is advised to consult with adjoining landowners and the Area Engineer prior to the submission of further information in this regard.***

(a) There is no treatment plant on the southern portion of our site; this is in fact a pumping station. As can be seen from the enclosed drawing it is proposed to connect the foul sewage from the proposed development to this existing private *pumping station* which currently pumps sewage from the existing Clavass Business Park, to the Local Authority sewer some distance from the site. We enclose an A4 location map (attached to the foul and surface water drainage calculations), indicating the route of the existing rising main and the location of the Local Authority receiving manhole.

(b) As noted above our client has met with Mr. Tom Byrne the adjoining landowner and he was agreeable to our client using the existing foul drainage network (including pumping station and rising main). We had in fact



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discussed the pump installation during our meeting with him of the 27<sup>th</sup> of February, and our client has also subsequently spoken with Mr. Tom Byrne a number of times by telephone and has written to Mr. Byrne confirming that they "have no objection to any proposal by Greenstar Ltd to connect into the existing pumping station". We have received no response to date. In the meantime we enclose herewith correspondence from our client's solicitor confirming the vendor agreement in place at the time of our client's purchase, (attached to the foul and surface water drainage calculations, 7 copies) (c) The design for the pump-station pumps storage tank and rising main is on the basis of 450 people @ 65L / head / day. The storage tanks are sized at 7000 gal (32,000 L) which equates to 24 hour storage for 450 people of 29.25m<sup>3</sup>/day. The estimated number of car spaces on the existing site north of the applicant site is 215. The proposed Greenstar site has 52 spaces giving a total population of 267. Even allowing for a factor of growth of 1.5, there is more than adequate capacity in the storage tanks and pumps. It is noted also that the vast proportion of the greenstar staff are not on site for much of the working day and so their numbers reflecting a 'full-time' on site equivalency would be much smaller.

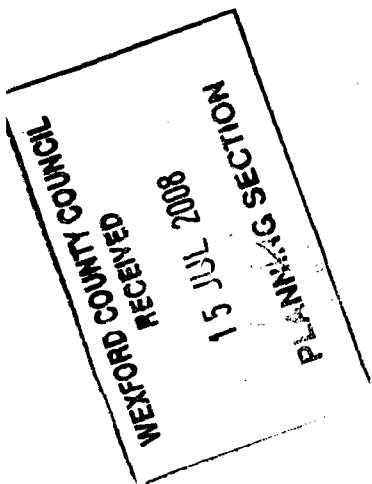
While our engineers were obviously not involved in the installation of the existing rising main and other pipe work, we can anticipate that it is in good condition given it has only recently been installed. All of this has been discussed with Mr Craig Innes.

It is noted also that this is a private drain and it will not be taken in charge by the Local Authority therefore any problems with the system will not impact on the Local Authority. Burke Jenkins, the Civil and Structural Consultant Engineers, will be responsible on the 'sign-off' of the plant for our clients, Greenstar Ltd, and any problems related to workmanship will be addressed during the construction of the new facility.

- 3. Please provide details of the treatment plant on the applicant's land to the south and submit proposals to mitigate any existing environmental pollution/threat. The applicant is advised to consult with adjoining landowners and the Environment Section of Wexford County Council in this regard prior to the submission of further information.**

As noted above there is no on-site treatment at this location. The existing *pumping station* is as detailed within the enclosed engineer's drawings and details. The mitigation measures necessary for the operation of such an installation are as noted within the submitted revisions to the 'Environmental Impact statement'. It is noted that an overflow incident which has occurred on site, contemporaneous with this application, occurred due to a pump failure which has since been rectified. (The EPA is due to carry out an inspection on site when these works have been completed). This incident has nothing to do with this application, nor with our client, Greenstar Ltd., but was in fact the responsibility of the adjoining developed site, management team. (It was in fact only through a meeting on site with the EPA Inspector (Yvonne Furlong) on the 8th February last, that our client became aware of a pollution incident on the land due to a pump failure. Mr Tom Byrne was made aware of this through communication by our solicitor to his legal people following this site visit).

Finally during our meetings with the area engineer, Mr Craig Innes, the subject of local water supply was discussed. It is envisaged that two water storage tanks will be required on site to facilitate fire fighting requirements along with the usual generator and pumps. Our revised drawings submitted indicate this need; the tanks are sized based on discussions with the Wexford Fire Department.



4. **Please supply details of the peak water demand for the proposed development including for wash-downs (l/s or m<sup>3</sup>/hr). Further analysis will be required by Wexford County Council to ensure that adequate supply is available.**

At maximum capacity there will be 12 full time staff on-site and up to 40 drivers may be based at the facility. Based on the guidance in Table 3 of the EPA's Wastewater Treatment Manual: Treatment Systems for Small Communities, Business, Leisure Centres and Hotels, the volume of water required is 60 litres / person / day. This equates to 974m<sup>3</sup>/annum, assuming a full time on-site presence of 52 persons. This is a conservative figure, as the drivers will not be full time on-site as noted above, and so the actual usage figure will be significantly lower. Our client's estimate is that the full time on site, 'equivalency', might be in the order of only 20 personnel, on any given day.

Wash down volumes are estimated at approximately 82m<sup>3</sup> /annum. Vehicle wash water are estimated at 120m<sup>3</sup>/annum. Therefore the annual water supply requirement will be conservatively no more than 1,176m<sup>3</sup>/annum.

5. **Please supply details of the proposed PE and constituents of the waste to the foul sewer of the proposed development. The applicant is advised to consult with the Environment and Water Services Departments of Wexford County Council in this regard.**

At maximum capacity there will be 12 full time staff on-site and up to 40 drivers may be 'based' at the facility, but whose working day is 'on the road'. The waste water from the canteen and toilets/showers will be similar to that from domestic sources. The quality of the floor wash down is shown in Table 1, which is derived from the EIS.

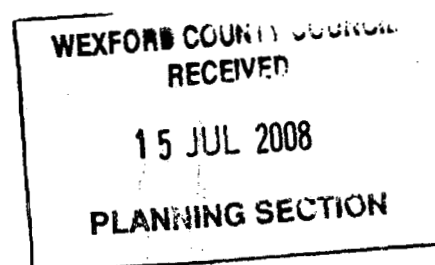
Table 1 Wastewater Quality

Parameter	Concentration
Temperature	20 °C
BOD	3,500 mg/l
COD	7,000 mg/l
pH	6 - 10
Ammoniacal Nitrogen	100 mg/l
Suspended Solids	2000 mg/l
Sulphates (as SO <sub>4</sub> )	1000 mg/l
Detergents (as MBAS)	100 mg/l
Fats, Oils, Grease	100 mg/l

The estimated annual volume of floor wash down is approximately 82m<sup>3</sup>, or 0.26m<sup>3</sup>/working day. The PE was calculated using the formula in the EPA's Wastewater Treatment Manual: Primary, Secondary & Tertiary Treatment.

$$\frac{\text{BOD(mg/l)} \times \text{Flow (m}^3\text{/day)}}{0.060 \times 10^3}$$

The PE is 15.



20074161

6 **It is noted that the applicant states in the EIS, Section 15.3 that the processing of wastes indoors will mitigate against any impact on human health, however the applicant does not state whether this will completely eliminate any impact or merely mitigate the impact. Please clarify the nature and significance of any impacts and residual impacts after mitigation and provide supporting data and mitigation measures if appropriate.**

The operation of a non-hazardous waste facility in accordance with the conditions set in a Waste Licence issued by the Environmental Protection Agency will not result in any adverse impacts on human health. Impacts, associated with potential nuisances like noise and odours, can be effectively mitigated as discussed in Sections 10 and 11 of the EIS.

7. **Inadequate details have been provided with regard to the impact of the proposed development on agriculture in the vicinity. Please supply adequate information to assess the same and mitigation measures if appropriate.**

The only emission from the waste activities with the potential to impact on agriculture is dust, and effective mitigation measures are described in Section 11 of the EIS. There will be an insignificant residual impact on agriculture.

8. **Please clarify:**

**The source of all wastes which are to be processed at this facility and whether it is only proposed to deal with waste from the Wexford Region;**

The waste to be handled at the proposed facility will primarily be from the Wexford region. However, waste from the neighbouring South East region counties will also be handled based on existing customer locations.

**Whether only wastes from the applicants own collections will be processed or whether that of other operators will be operated at the site;**

It is anticipated that waste transferred in by other waste collectors will be handled at the proposed facility in addition to the waste collected by Greenstar Limited.

**Whether the proposed development will be open to the public;**

The facility will not be open to the public. Signs will be erected at site entrances, to this effect, when the facility is up and running.

**The destination of all material (detailed by type);**

It is intended that all Municipal Solid Waste, Commercial and Industrial Waste, Construction and Demolition Waste and Dry Mixed Kerbside Recyclables will be processed at an appropriate associated Greenstar Materials Recovery Facility, with all residual waste from the processing being sent to an EPA licensed residual landfill. The remaining source segregated wastes will be disposed of in appropriate EPA approved outlets.

**The length of time all material will be stored on site (detailed by type);**

All Municipal Solid Waste, Commercial and Industrial Waste, Construction and Demolition Waste will be on site for no longer than 24 hours. It is anticipated that only inert waste, or recoverable resources, such as Old Corrugated Cardboard or Dry Mixed Kerbside Recyclables may be stored on site for longer than 24 hours.

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**Whether all waste exiting the site will do so in Greenstar operated vehicles or persons subcontracted by Greenstar or whether individuals may also collect materials from the site (e.g. clean fill, shredded paper);**  
All waste exiting the site will do so in a combination of Greenstar owned vehicles and vehicles sub contracted by Greenstar Limited.

**All plant on site;**

The plant on site will consist of an Excavator Grab, a Loading Shovel, a Trommell, a Mill Sized Baler and a Forklift Truck. Any further plant to be used on site will be determined by market or legislative requirements and cannot be detailed at this juncture.

**Whether the administrative building relates to the use of this premises only or the wider Greenstar operation;**

The administrative building relates to the use of this premises only.

**Whether there is any outdoor storage of materials on the site. Please show on the site layout plan;**

It is not anticipated that there will be any outdoor storage of materials.

**Whether the outside skip storage is for empty, clean skips. Please ensure adequate space beside this facility for the off-loading of skips in a manner which will not create internal congestion on site;**

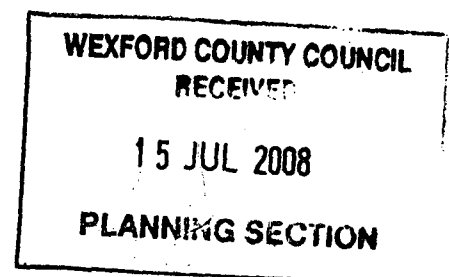
The outside skip storage is for clean empty skips. We have effectively enlarged the site by reducing the plan size of the proposed building, and also by moving the southern boundary further to the south, to reflect your concerns regarding on-site congestion. It is obviously not in our client's interest to create an operationally congested site.

**Whether the information provided with regard to dust/noise/odour etc takes into account the predicted level of time that the doors of the facility will be opened.**

The assessment of the impacts associated with emissions from the facility took into consideration the normal operating conditions, which includes the times the doors will be open. A worst case scenario was used for each of the impact assessments including open doors during operations

**9. Please supply details of the source and treatment of compostables and petricubles on the site and the source and destinations of the same.**

The compostables and putrescibles will be part of the household and commercial and industrial wastes streams and are generally present in the Mixed Wastes. The MRTF Building will be divided into Dry Waste and Mixed Waste processing areas by an internal steel stud partition wall. This will facilitate the operation of an effective odour control system in the Mixed Waste area. The residual mixed waste containing putrescibles may be mechanically treated to remove potential recyclable materials including metals, paper, plastics, compostables and materials that are suitable for energy recovery. The recovered metals, paper and plastic will be stored on-site pending removal to off-site recovery/recycling facilities. The remaining compostables will be removed off-site for biological treatment at a permitted/licensed facility. Unrecoverable residual putrescible material will be sent to offsite licensed landfill for disposal.





- 10. Please provide details of the layout of all plant/machinery and equipment together with the circulation routes inside the main building. Please show where the material will be offloaded. Please include the 'temporary plant' referred to in the EIS and a typical layout showing phase 1 and a revised layout for when phase 2 is built.**

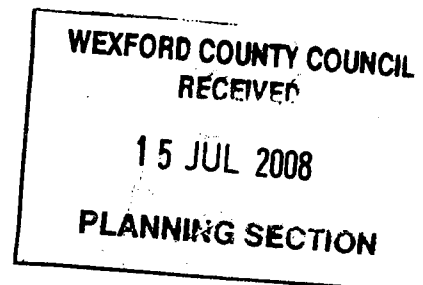
We have added to our drawings, details of the anticipated plant installation within the MRF building, (Ref Drg P004). The waste industry is a relatively new industry which has experienced significant accelerated changes over the last 10 to 15 years in regard to the manner by which waste is collected and streamed for recycle, reuse and disposal. The anticipated phasing of the building was with a view to facilitating the various parameters prevalent to the internal fit out of the facility. We would emphasise that the MRF building size is not related to the tonnage of the waste being handled; rather it is related to the sophistication of its treatment. To this end and so as to avoid confusion, the applicant intends to construct the entire building in one operation/phase, and the revised layouts indicate this. It is noted that the building has also been decreased in size upon consideration of the internal processing plant to be used.

It is not possible at this time to provide the detailed layout of the plant and machinery that will be used in the building, as this will be determined by a competitive tendering process. The EIS does not refer to temporary plant, but does state that additional plant may be hired in as required as a temporary measure in the event of break down of the permanent plant. An indicative layout is shown on the enclosed drawings

- 11. The Planning Authority is not satisfied that the proposed phasing will not affect the processing at the facility or the visual appearance of the structure. Please provide details of the impacts of phasing on:**
- i. the design of the building, (i.e. show elevations as proposed for phase 1)**
  - ii. circulation within the building;**
  - iii. processes;**
  - iv. the provision of the odour abatement plant or other proposed mitigation.**

We note the concerns expressed regarding the works required on site to instigate phase 2 of the building. To this end our client undertakes to construct the building in one complete phase, as referenced at 10 above. The building size has also been reduced. We believe therefore that the issue of the phasing relative to design, circulation, processes and odour abatement is therefore mitigated.

It is noted that the odour abatement system will be installed and commissioned before mixed household and commercial and industrial waste is accepted at the facility. The principle other primary mitigation measure will be the noise related acoustic fence to be located along the southern boundary of the site. This has also now been augmented by substantial planting and landscape mounding. The phasing of the Building, as it no longer exists, will not impact on the provision of these abatement measures, nor other proposed mitigation measures.



- 12 It is noted that 90,000 of material can be processed in phase 1 of the development. Please clarify whether phase 2 would result in the availability of capacity for the processing of a larger amount of materials. The applicants are advised that if the site has a capacity of greater than 100,000 then the planning application is subject to the Strategic Infrastructure Act 2006 and the applicant is advised to withdraw the applications and enter into the statutory consultations with An Bord Pleanala.**

The proposed Phase 1 would have handled 90,000 tonnes/annum using the processes applied at the existing facilities. However provision had been made for the larger floor area (Phase II) so as to accommodate additional sophisticated mechanical processing equipment for the mixed waste should this be required to enhance the recovery/recycling rates. The additional plant will not be required to process additional volumes of waste and it is not intended to exceed the 100,000 tonne threshold.

Notwithstanding the fact that the MRF building is no longer to be phased the purpose of the phasing had not been with a view to increasing the tonnage of the waste through-put, but rather to anticipate the increased level of automation and sophistication of the internal waste handling plant and machinery which is becoming an ever present aspect of the waste industry today. The licence application to the EPA is for 90,000 tonnes, the business model anticipated, does not envisage the processing of tonnages above this figure. We would therefore see no advantage in regarding this application as being of such infrastructural size as to warrant direct statutory consultations with an Bord Pleanala

- 13. Please provide sections through the site showing the Old Dublin Road, the building and the N11.**

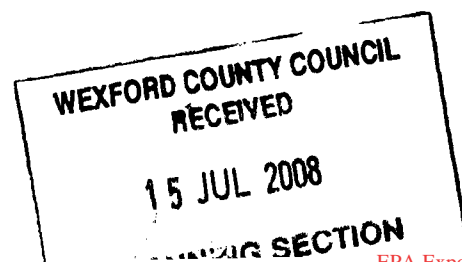
Please see our enclosed revised drawings (P-023 & 024), which reflect the overall elevation of the main MRF building and its associated yard area cut into the contours of the site. The yard and building has been reduced in height from an overall level of 38.75m to 37.75m. The net effect of this reduction in height is to reduce the amount of fill required within the site and also to reduce the visual prominence of the building unto the main N11. (See also below)

- 14. Please provide a contoured site layout (preferably colour coded) showing the levels on the site after construction.**

Enclosed; Ref drg (P-000 & 004). Where changes in level are possible by means of graded contours, as opposed to say retaining structures, this approach has been adapted. In some areas of the site retaining walls have been utilized so as to create a more effective layout but also so as to embed the MRF building into the site more effectively, and relate it in scale to the smaller administration facility building.

- 15. Please clearly show all levels of cut and fill on site.**

We enclose our detailed sections through the site indicating the cut and fill prevalent at various section points. (Drgs. P-023 & 024), We have estimated that the cut and fill is now optimised in regard to the volumes of soil being removed off site, the elevation of the yard and main MRF building, and the visual prominence of the overall facility. The cut and fill ratio on the site is now 50:50.



**16. Please provide a Visual Impact Assessment of the proposed development. This should include photomontages (with accurate building heights and show relevant adjacent buildings and ground levels) and show the visual impact of the proposed development both at time of completion and subsequent to mitigation. The applicant is advised that the Planning Authority have serious concerns with regard to the visual impact of the proposed development especially with regard to the apparent significant levels of fill proposed. The applicant is advised that this is unlikely to be acceptable to the Planning Authority and is invited to submit revised plans and particulars showing the building, hard-standing etc. cut into the site rather than raised above it. The applicant is also requested to clarify the need for a building of this height and to provide revised plans and particulars providing for a reduced ridge height on the western elevation if possible.**

**Please provide:**

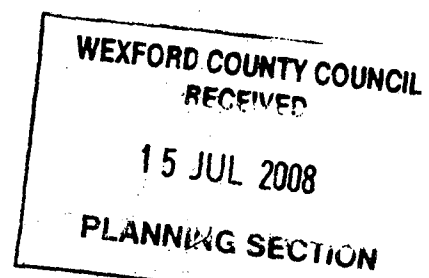
- **sections at appropriate intervals through the site showing the Old Dublin Road, the building and the N11 (A3 is not acceptable).**
- **A contoured site layout (preferably colour coded) showing the levels on the site after construction.**

**Please clearly show all levels of cut and fill on site.**

**Please also provide:**

- **a section showing the western elevation and the building to the north.**
- **true elevations. It is not acceptable to show elevations screened by roads, maps etc.**

We have prepared a Visual Impact Assessment of the proposed development starting with an analysis of the visual prominence of the site and the landscape ameliorations required. This is enclosed along with our visual assessments of the facility as viewed from locations on both the old, and the new N11. Views taken and enclosed reflect (a) the site prior to development, (b) post-development with initial planting cover to N11 and (c) subsequently with mature planted cover to N11. We had indicated in our original application that planting would effectively and successfully screen the development within 6 years of growth. We have addressed further your concerns by increasing the specification and depth of the planting provided. These will now consist of a mixture of extra heavy standard trees in two staggered rows planted at 7.0 m centres, in a matrix of whips planted at 1.2m centres. The extra heavy standards will provide immediate screening to 5m height and will achieve a height of 8 -8.5 m in 5 years. The whips will be planted as 1500 mm whips, and will achieve a height of c.5 m in 5 years. The combination of the 8.5m high standard trees and the 5m whips will provide substantial screening and as they will continue to grow to maturity over a 30 – 50 year period the screening will be more than fully provided during the lifetime of the trees.



17. (a) Please also provide sections at appropriate intervals through the site showing the Old Dublin Road, the building and the N11 (A3 is not acceptable).
- (b) Please provide a contoured site layout (preferably coloured coded) showing the levels on the site after construction.
- (c) Please clearly show all levels of cut and fill on site.
- (d) Please provide a section showing the western elevation and the building to the north.
- (e) Please also provide true elevations. It is not acceptable to show elevations screened by roads, ramps etc.

Please see our enclosed drawings. More specifically we would respond:

- (a) Our Drawings as enclosed
- (b) As noted at 15 above
- (c) As noted at 15 above
- (d) Drawing as enclosed, (P-024)
- (e) We have reviewed all of the elevations provided to ensure that all of the aspects of these are correctly noted, (P-006). Some of the elevations are screened by roads and ramps reflecting the fact that the MRF building is embedded into the site. This is in fact a significant benefit of the site as the overall volume of the main MRF building is visually reduced relative to many of the views into the site.

18. Please provide details of the materials to be used in the processing of wastes and a detailed description of all processes.

The processing of the wastes will not require the use of materials. The household, C&I and C&D wastes will undergo the following processes:

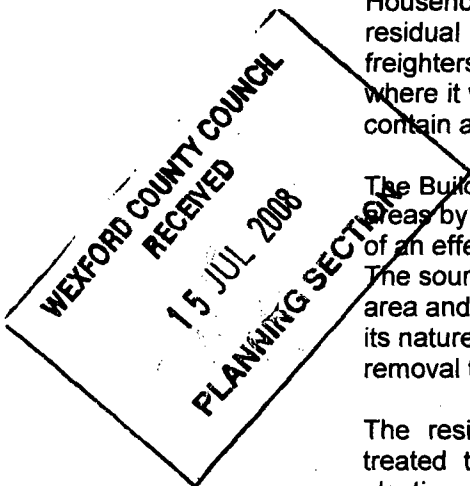
#### Household

Household waste will comprise source separated dry recyclables and mixed residual wastes. It will be delivered to the facility in enclosed refuse freighters and will be off-loaded in a designated area inside the Building, where it will be inspected to ensure it is suitable for processing i.e. it does not contain any hazardous or other unsuitable material.

The Building will be divided into Dry Waste and Mixed Waste processing areas by an internal steel stud partition wall. This will facilitate the operation of an effective odour control system in the Mixed Waste area, (West end).

The source separated dry recyclables will be off-loaded in the Dry Waste area and then moved to the baling units or loading bays where, depending on its nature, it will be baled, or compacted before being stored on site pending removal to off site recycling facilities.

The residual mixed waste containing putrescibles may be mechanically treated to remove potential recyclable materials including metals, paper, plastics, compostables and materials that are suitable for energy recovery. The recovered metals, paper and plastic will be stored on-site pending removal to off-site recovery/recycling facilities. The compostables will be removed off-site for biological treatment at a permitted/licensed facility.



### **C&I Waste**

The C & I waste will comprise source separated and mixed residual waste. The source separated materials will contain a larger fraction of cardboard, plastic and cans than the household dry recyclables. Any waste containing putrescible material will be handled with the mixed household waste in the Mixed Waste area.

The source separated material will be off-loaded in the Dry Waste area and then moved to the baling units or loading bays where, depending on its nature, it will be baled, or compacted and stored before being loaded onto trailers for removal off-site.

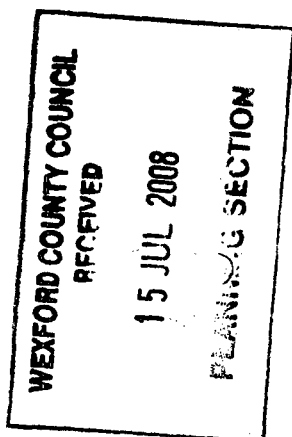
Mixed waste, containing putrescible materials, will be off-loaded in the Mixed Waste area where it may be mechanically treated to remove potential recyclable materials including metals, paper, plastics, compostables, and materials that are suitable for energy recovery. The recovered metals, paper and plastic will be stored on-site pending removal to off-site recovery/recycling facilities. The compostables will be removed off-site for biological treatment at a permitted/licensed facility.

### **C&D Waste**

C & D Waste will be off-loaded in a designated part of the Dry Waste area for inspection. Any unsuitable (contaminated) materials will be removed to the waste quarantine area. Large items of wood, metal or plastic will be removed using a mechanical grab or trommel and brought to the appropriate on-site handling/storage area. The remaining material will be screened.

- 19. The planting depth proposed is deemed to be inadequate to adequately mitigate impact on the visual amenities of the area and the amenities of adjoining properties. Please supply a revised planting plan to show proposed planting. This should be in the form of a dedicated landscape layout plan and accompanying specification. The applicant is advised that the depth of the buffer should be significantly increased and that mature planting should be provided. The applicant is advised that, in the interests of the amenities of the area, planting should be provided as a buffer on the old N11 in place of the ornamental planting proposed. The applicants are advised that the proposed palisade fencing on the N11 is not acceptable and should be placed on the 'development side' of the site (i.e. screened by planting). Any proposed planting and fencing outside the site edged red but within the site edged blue should be included within the site edged red and included in the specifications.**

We have revised the planting schedule in association with Mr Michael Cregan landscape architect, with whom we had created the original landscape plan submitted. As requested we have taken on board comments made in regard to the planting depth and the presence of a greater number of mature plantings. We note also discussions with the WCC planning department, during the course of preparation of this response. These discussions confirmed that in regard to the old N11 roadway the planting required was more particularly concerned and referenced with regard to the screening of the MRF building, as opposed to the more modest scaled two storey administration building. This has framed our approach to this side of the site and the visuals submitted in response to 16 above clearly show, what is in our opinion, a series of attractive views into the development from the old N11 roadway. A dedicated landscape layout with accompanying specification is enclosed.



We are of the opinion that the critical factors in achieving maximum visual screening, particularly in regard to the N11, are not so much related to the depth of planting as: species selection (with reference to the ultimate form of the trees and their rate of growth following establishment), plant size selected for planting, and planting pattern/layout.

The plants proposed will consist of a mixture of extra heavy standard trees, (5 – 6m height) in two staggered rows planted at 7.0 m centres, in a matrix of whips planted at 1.2m centres. All screen planting will be installed to a plan depth of 8.5m to the main building and 5m to the associated site. The extra heavy standards will provide immediate, though intermittent, screening to 5m height and will achieve a height of 8 - 8.5 m in 5 years. They will subsequently continue a growth rate of c600 -990 mm height increase per annum with a corresponding enlargement in crown spread. At 15 – 20 years they will be substantial trees. The whips will be planted as 1500 mm whips and will achieve a height of c.5 m in 5 years. The combination of the 8.5m high standard trees and the 5m whips will provide substantial screening and as they will continue to grow to maturity over a 30 – 50 year period, the screening will be fully provided during the lifetime of the trees.

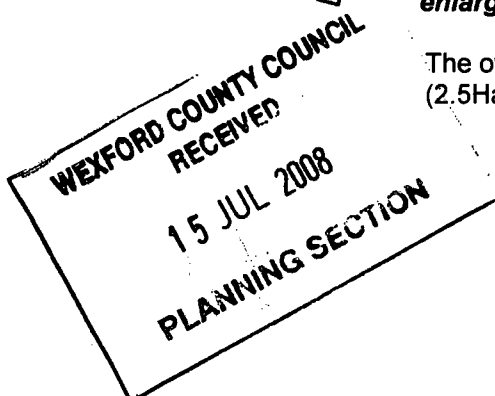
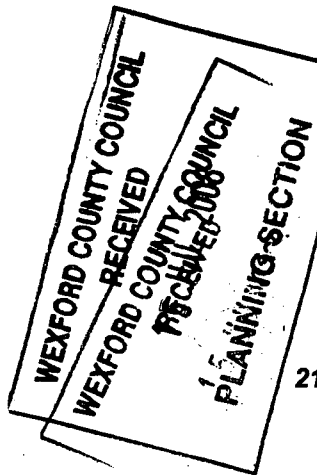
The extra heavy standards selected are Norway maple, Ash and Lime. It has to be recognised that trees in this mature category tend to achieve modest rates of growth in the first three or four years post planting after which their growth rate accelerates. Whips achieve rapid rates of growth from establishment and the figures quoted above are conservative. Hence the admixture of mature trees and whips provide the optimal conditions for visual screening. A full specification for planting is enclosed.

20. **The applicants have stated that up to 40 drivers will be based at the facility. However no parking has been provided for such vehicles or for vehicles using the site. Please submit a revised site layout to accommodate the same. Furthermore the proposed development does not comply with the standards with regard to parking included in the Enniscorthy Development Plan 2001 with regard to industry, offices or parking for persons with disabilities. It is considered that the inadequate provision for parking may result in a traffic hazard arising from vehicles parking on, or queuing on, the public road..**

We note the concerns stated in regard to the possibility of inadequate provision of parking resulting in traffic hazards arising on the adjacent public roads. To this end we have increased the parking provisions within the site substantially both to accommodate the cars of drivers coming to the site to park but also the parking of 40 refuse trucks within the operational yard. All of this is reflected in our revised drawing P004.

21. **Having regard to the deficiencies outlined in items 16, 17 and 18 (and the fact that the development would result in an over-development of the site) the applicant is advised that it would appear necessary to enlarge the area of the site.**

The overall applicant site has been enlarged to a total area of 25,307m<sup>2</sup>, (2.5Ha), as indicated on our enclosed revised site plans P-000 & P-003.



**22. Please provide an assessment of the proposed development in terms of its compliance with the Draft Enniscorthy Town and Environs Development Plan 2007 in terms of policies, objectives and development control standards.**

We were confident that the application as previously submitted complied with the policies, objectives and development control standards of the Draft Enniscorthy Town and Environs Development Plan 2007. The additional mitigation measures created as part of this request for further information ensures this compliance. Specifically:

It is noted that the recent growth and development of Enniscorthy Town itself, (no less than significant areas of the South-East) has been significant over the period of the previous development plan.

A waste management policy and infrastructure is therefore necessary: *Ref. Section 3.9:- Solid Waste Management Strategy.* It is noted that 'proper waste management is a fundamental requirement for sustainable development and environmental protection', so as to remove reliance on landfill disposal. *This proposed infrastructural project is fundamentally geared toward achieving this aim.* It is directly consistent with the joint waste management plan for the South-East Region 2002-2012 as noted within the EIS submitted.

It is noted also that the proposed site is part of the industrial and commercial zone as identified at Blackstoops/Kilcannon, and it is noted that in regards to urban design, a 'high quality built and natural environment in this area' is envisaged. We have endeavoured to achieve this aim and our accompanying visuals reflect the architectural quality of the proposed scheme; it is noted also that the site usage is seen as appropriate for recycling facilities which is the purpose of this application. In so doing our client will continue to contribute in a significant way, to the employment needs of the area.

The applicant is aware of his responsibilities in regard to sustainability and as reflected in section 11.2.19 of the plan; to this end the buildings will be designed to Part L standards plus 40% performance and we have indicated renewable energy use in the form of solar panels for the administration building. We have responded to your comments in regard to parking by increasing the numbers provided for car parking from 23 to 52, thus ensuring that any truck drivers arriving to site by car will be accommodated. The numbers therefore are:

Use	Required	Provided
Warehouse (1 per 100m <sup>2</sup> ) (3,008m <sup>2</sup> )	30	40
Office (1 per 25m <sup>2</sup> ) (270m <sup>2</sup> )	11	12
<b>TOTALS</b>	<b>41</b>	<b>52</b>

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- 23. The applicants have failed to identify all Recorded monuments in the vicinity of the site. Please provide the appropriate baseline data required to assess the impact of the proposed development on archaeological heritage along with any appropriate mitigations measures. Such assessment should be prepared by a suitably qualified and licensed professional.**

Your concerns in regard to this matter are noted and we have expanded this aspect of our EIS document to record matters which may be considered pertinent to the application. Our further trawl of the relevant materials do not in our opinion materially alter the EIS in this regard

An archaeological survey including a desk study and field survey was completed in March 2008 and the report is included in the EIS Appendix. The survey concluded that the proposed development site is not located either within, or close to a zone of archaeological potential of any archaeological site.

- 24. The applicants have not provided details of the impacts of the proposed development on architectural heritage of the area. Please provide the appropriate baseline data required to assess the impact of the proposed development on archaeological heritage along with any appropriate mitigations measures. Such assessment should be prepared by a suitably qualified and accredited professional**

Your concerns in regard to this matter are noted and we have expanded this aspect of our addendum to the EIS document so as to record matters which may be considered pertinent to the application. Our further trawl of the relevant materials do not in our opinion materially alter the EIS in this regard.

The archaeology assessment includes a description of the architectural heritage of the area and concludes that the proposed development will have an insignificant impact on the architectural environment.

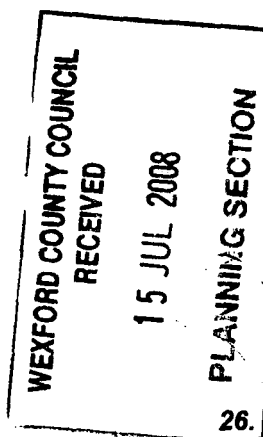
- 25. The applicants have not provided details of the impacts of the proposed development on the cultural heritage of the area. Please provide the appropriate baseline data required to assess the impact of the proposed development on cultural heritage along with any appropriate mitigations measures. Such assessment should be prepared by a suitably qualified professional.**

Your concerns in regard to this matter are noted and we have expanded this aspect of our EIS document to record matters which may be considered pertinent to the application. Our further trawl of the relevant materials do not in our opinion materially alter the EIS in this regard.

The archaeology assessment includes a description of the cultural heritage of the area.

- 26. It is noted that there is vagueness in the terminology used to describe mitigation proposed. Please provide a schedule of proposed mitigation prepared by the consultants and confirmed by the applicants. Where there is uncertainty with regard to mitigation, appropriate triggers or thresholds should be provided. The schedule should also identify the person/personnel/body responsible for implementing the measures.**

It is not accepted there is a 'vagueness' in the terminology used to describe the mitigation measures, however a schedule of the proposed mitigation measures set out in the EIS has been prepared.





**Table 1.2 Evaluation of Impacts**

Description	Impact No.	Character	Magnitude	Mitigation	Significance of Impact
Climate	1	Increased CO <sub>2</sub>	105 Trucks Trips Per Day	Turn off engines when not in use	Imperceptible
Traffic	2	Increase in Traffic Volume	105 Trucks Per Day	-	Imperceptible
Landscape	3	New Structure	As shown on Drawings	Landscaping Plan submitted	Imperceptible
Flora	4	New Structure & Paved area	Existing flora of low ecological importance will be lost	New landscaping measures will be introduced to offset lost of flora	Imperceptible
Geology/ Hydrology 1	5	Discharge to Surface Water Drainage System and soakaway	Paved & Roof areas on-site	Secondary containment of oils, Internal processing of waste with discharge from MRF to foul, Discharge from Vehicle wash to foul	Imperceptible
Odour	6	Putrescible waste in Mixed Waste Area	Mixed Waste Area Only	Odour abatement system comprising Air Extraction and Filter system with discharge to stacks	Imperceptible
Air	7	Dust	On-site Paved Areas	Regular RoadswEEPing of paved areas. Dampening down of paved areas as required in dry weather.	Imperceptible
Noise	8	Traffic onsite. Plant items operational inside the MRF building	On-Site	Acoustic Barrier on southern boundary. Internal processing of waste (Internal plant items).	Imperceptible
Archaeology	9	-	-	Non required	-
Material Assets	10	Non-Renewable Resource Consumption	Minimal. Associated with running of site	An Energy Audit will be carried out in compliance with the Waste Licence to determine energy saving options for the facility once it is operational for 12 months.	Imperceptible
Human Beings	11	-	-	-	No Impact

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**27. Please provide details of any difficulties encountered in gathering data including data that it was not possible to attain.**

The difficulties encountered in gathering the data was discussed in the Preamble to the EIS and reiterated here. The consultancy team did not encounter any particular difficulties in compiling the required information. The ecological survey was confined to a single season. However considering the type of habitats at the site, which are of low ecological importance, this does not materially affect the assessment.

- 28. a) The weighbridge should be relocated to allow queuing length for a minimum of four HGV.**  
**b) Entrance should be redesigned to comply with the recommendations of the DMRB (Suggest Layout 6 of TD41/95).**  
**c) Submit an alternative traffic management plan based on the assumption of right turn movements not being permitted at the junction of the Old Dublin Road and the N11 at Scarawalsh.**  
**d) Submit proposals to provide the required sightlines to the north of the entrance. Note the entrance will not be used exclusively by HGV's.**

**Response to Item No.28 a)**

It is proposed to reposition the weighbridges as shown on *Trafficwise Ltd.* Drawing No. 02801/01/01/RFI01A. The new location involves the weighbridge being set back further away from the Old Dublin Road and accommodates an effective queuing length of some 54m between the back of the weighbridge and the access gates (not including the weighbridge itself). The relocated weighbridge facilitates queuing for 4No refuse lorries (8.0m long each) and 1No articulated lorry (16.5m long) to queue inside the site before entering onto the weighbridge. In addition, the weighbridge proper can accommodate another HGV. This allowance is more than adequate to satisfy our client's needs in regard to anticipated truck movements. Queuing distance is shown on attached *Trafficwise Ltd. Drawing No. 02801/01/01/RFI01A.*

**Response to Item No.28 b)**

The entrance geometry originally shown on *Trafficwise Ltd.* Drawing No. 027801/01/01/PL02 complies with the recommendations of the DMRB. This entrance was designed to accommodate the swept path of the largest vehicle likely to use the facility (Freight Transport Association 16.5m long Design Articulated Vehicle). *Trafficwise Ltd.* has since engaged with Senior Executive Engineers' of the Local Authority (Mr Jim Power and Mr Sean Kavanagh). Our discussions have learned that the Local Authority considers the entrance shown on Drawing No. 027801/01/01/PL02 to be wider than necessary. The entrance has since been redesigned. The revised entrance is shown attached on *Trafficwise Ltd. Drawing No. 02801/01/01/RFI01.*

The entrance width has been reduced from 12.0m to 10.0m. This has been achieved through the removal of a 2.0m central strip dividing the weighbridges. The proposed exit-ramp is now skewed slightly thus tapering the internal road to the narrower entrance. The revised entrance is therefore approximately 2.0m to the south of its original position. In accordance with the RAI Request it is proposed to provide 15.0m turning radii as per the Local Authority suggested geometric Layout 6 of TD41. The existing and extended three metre hard shoulder along the site frontage will accommodate the provision of tapers of 1:10 over a distance of 25m as shown in Layout 6 of TD41.

**Response to Item No.28 c)**

The Local Authority has indicated that in the short term (at least) vehicles will be prohibited from turning right from the Old Dublin Road onto the N11 at Scarawalsh. This restriction could potentially be lifted after the N11 Clogh to Enniscorthy Scheme opens to the public and traffic volumes on the existing N11 decrease. Nonetheless for the purposes of analysis it has been assumed that this restriction will be imposed indefinitely. In banning right turn movements at Scarawalsh, this traffic will be forced into accessing the N11 at an alternative junction; which is most likely to be the existing N11/R702/Old Dublin Road Roundabout. This is likely to hasten the time by which this roundabout reaches its design capacity (as outlined below).

Alternative network flow diagrams (traffic management plans) which take cognisance of the right turn ban and the emerging preferred route of the N11 Clogh to Enniscorthy scheme are provided in this submission. Figures 1a to 9a show the various forecast traffic flows and distributions used in the assessment of future year traffic scenarios. Proposed HGV routing to and from the site, arising from the ban, is shown on Figure 10a. It is assumed that the right turn ban will be imposed from the opening year of the proposed development (2008) right through to the opening year +15 (2023). It should be noted that traffic travelling to the proposed development will still be afforded access at the Scarawalsh junction.

In the Traffic Impact Study (October 2007) the N11/R702/Old Dublin Road roundabout, was shown to reach its' capacity some 15 No years after the expected opening year i.e. 2023. This was based on right turn movements being permitted at Scarawalsh. The model of the N11/R702/Old Dublin Road Roundabout in the opening year +15 (2023) was subsequently re-run to reflect the proposed right turn ban at Scarawalsh. The results of the revised ARCADY analysis is provide in Table 1 below.

Name of Roundabout Arm	Expected No. of Vehicles	Queuing Delay per Vehicle (sec)	Max Queue (vehs)	Max RFC	Reserve Capacity
<b>2023 Peak Hour – Do Nothing (No Proposed Development)</b>					
Industrial Estate Arm	633	56.4	34	1.063	NA
N11 (Enniscorthy Side)	670	6.0	2	0.642	35.8%
R702 Killealy Arm	347	5.4	1	0.442	55.8%
N11 (Gorey Side)	768	7.2	2	0.716	28.4%
<b>2023 Peak Hour – Do Something (with Proposed Development)</b>					
Industrial Estate Arm	690	116.4	64	1.156	NA
N11 (Enniscorthy Side)	671	6.0	2	0.641	35.9%
R702 Killealy Arm	347	5.4	1	0.446	55.4%
N11 (Gorey Side)	766	7.2	2	0.715	28.5%

**Table 1** Performance of the N11/R702/Old Dublin Road Roundabout in 2023

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From Table 1 above, the eastern (industrial estate) arm of the roundabout is shown to be over capacity in the evening peak hour of 2023. The level of traffic forecast to use this link nonetheless allows for future development of zoned industrial lands on the Old Dublin Road. Save where RFC values exceed unity (mathematical equations are unreliable indicators once RFC beyond unity), it can be seen that the addition of the traffic generated by the proposed development is likely to have a negligible impact upon the operation of the roundabout. Excluding any other measures to improve access to the Old Dublin Road, the capacity calculations suggest that the existing roundabout will most likely require improvements in order to accommodate the expected development of zoned lands along the Old Dublin Road. In considering possible measures to address the future traffic scenario and to provide a suitable level of accessibility to the zoned industrial lands along the Old Dublin Road, in the following two potential mitigation options are suggested.

The first suggested option would be to provide a left-turn slip lane on the industrial estate arm of the roundabout. An alternative suggested approach would be to provide increased levels of accessibility to the industrial lands rather than focusing practically all traffic to one junction. This could be achieved by upgrading the existing N11/Old Dublin Road priority junction at Scarawalsh to a roundabout; and/or upgrading the existing N11/IDA Link Road priority junction.

Upgrade of either of these priority junctions would significantly increase accessibility for future traffic arising from the zoned industrial lands on the Old Dublin Road. In the absence of suitable infrastructural improvements to accommodate the development of zoned industrial lands the revised capacity assessments forecast that there is likely to be evening peak hour congestion along the southern section of the Old Dublin Road (regardless of the proposed development).

The emerging preferred route of the N11 Clogh to Enniscorthy Bypass is identified in the February 2008 'N11 Clogh to Enniscorthy Scheme – Emerging Preferred Route Public Consultation' document. Once this route opens, traffic volumes on the existing N11 past the site are likely to reduce significantly. This factor taken together with the expected reduction in vehicular speeds on the N11 (arising because vehicles will be required to negotiate the proposed N11/Bypass/N80 Roundabout and because the existing N11 will be reclassified to a regional road); should favour the provision of a roundabout at Scarawalsh.

A proposed roundabout at Scarawalsh would predominantly serve the northern portion of the Old Dublin Road which is yet to be developed. The results of the traffic model indicate that improvements to accessibility of the industrial area will be required sometime late in the next decade (should further development of the industrial area be encouraged as per the current development plan). It should nonetheless be noted that the traffic generated by the proposed development can be accommodated on the local roads network without undue impact upon capacity for the coming years.

**Response to Item No.28 d)**

It is expected that the northernmost access will be used predominantly by HGV. All other vehicles will be directed to access the site via the southernmost access. This regime can be highlighted to visitors with the provision of appropriate signage.

Visibility sightlines of 90m are available to HGV drivers looking north from the northernmost access (measured from a 4.5m set-back). An existing palisade fence, which runs along the boundary of the immediately adjacent site, is located within the visibility envelope. This fence will however not impinge upon an HGV Drivers' field of vision since their eye height will be above the top of the fence. All other vehicles such as cars, vans or jeeps are not expected to use the northernmost access on a frequent basis. At worst the Applicant estimates that a maximum of 1No inbound and 1No outbound light vehicle might use it on a daily basis. For lightly used accesses, TD41 of the NRA: DMRB permits visibility sightlines to be measured from a set-back of 2.4m. At the same access, a 90m visibility sightline to the north will be available to all drivers from a 2.4m set-back. It should be noted that a 90m visibility sightline will similarly be available to all drivers from a 4.0m set-back.

The visibility criteria are shown on the attached **Trafficwise** Ltd. Drawing No. 02801/01/01/RFI01A. The proposed level of visibility provision is considered satisfactory for the safe operation of the development access.

**29. Clarify that the traffic assessment includes the fact that up to 40 drivers will be based at the site.**

We can confirm that the future year traffic models allow for traffic generation associated with up to 40 No drivers based at the site. When the facility processes 60,000 tonnes per annum, it has been forecast that the site will generate 45No cars out and 6No cars in; and, 3No HGV out and 8No HGV in during the evening commuter traffic peak hour. When the facility processes the maximum 90,000 tonnes per annum, the site is forecast to generate in the region of 56No cars out and 6No cars in; and, 6No HGV out and 8No HGV in; during the peak hour.

**30. It is noted that the sightlines 'envelopment' at the junction of the proposed entrance and the Old Dublin Road crosses the applicant boundary wall and the adjoining property. Please clarify whether it is necessary to carry out works/amend the design to provide sightlines and submit revised plans as appropriate. If this involves alterations to property outside your control please submit the consent of the relevant owners.**

See response to Item 28 d) above. All responses have been discussed with Mr Jim Power.

**31. Please provide confirmation from all the consultants involved in the project that the information supplied as a result of the above requests will not impact on or alter their assessments or recommendations. Where this is not the case and the information should be supplied and revised assessment/data/plans should be supplied as appropriate.**

**The applicant is advised that it would appear that it would be necessary to re-advertise the submission of the above further information as it is considered that the changes required are significant.**

**Note: The applicant is advised that this request for further information does not necessarily indicate that permission would be subsequently granted.**

We wish to state that the information supplied as a result of the above additional Information request does not impact on, or alter, our assessments or recommendations.

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Additional to our comments above I would note and record that in line with our client's policy for public consultation, letters have been sent to each of the parties who have submitted observations to yourselves, on the 2nd April last. In these letters, Greenstar Ltd have offered to facilitate meetings to discuss any of their concerns.

Greenstar also offered to facilitate visits to another similar facility, which is something which we would offer to yourselves also. So far our client has spoken only with a Mr and Mrs Jim Jordan and while a meeting was arranged for Tuesday 29th April last, Mr Jim Jordan regretfully informed us on the day arranged that the meeting would have to be cancelled due to an unforeseen family crisis.

To date our client has received no feedback from any of the other observation parties, however our client will endeavour to make further contact during the period of this resubmission being adjudicated upon.

Please contact the undersigned should any queries arise in regard to what is recorded above. We look forward to hearing from you in due course.

Yours sincerely,



Martin Murray, MRIAI  
**MARTIN MURRAY ARCHITECTS**

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**Materials Recovery and Transfer Facility  
At Clavass, Enniscorthy,  
County Wexford, for  
Greenstar Ltd.**

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**R.A.I. Drawings Schedule**

Drawing No.	Drawing Title	Size	Scale
P-000	Existing & Proposed Site Contours	A1	1:500
P-001	Record Place Map	A3	1:10560
P-002	Rural Place Map	A3	1:2500
P-003	Site Plan	A1	1:500
P-004	Ground Floor Plan (MRF Building)	A1	1:200
P-005	Site Elevations from Adjacent Roads	A1	1:200
P-006	Elevations & Sections (MRF Building)	A1	1:200
P-009	Section A-A (Admin Building)	A3	1:100
P-010	East Elevation (Admin Building)	A3	1:100
P-011	West Elevation (Admin Building)	A3	1:100
P-012	South Elevation (Admin Building)	A3	1:100
P-013	North Elevation (Admin Building)	A3	1:100
P-014	Landscape Site Layout	A1	1:200
P-015	Boundary Sections	A3	1:100
P-016	Section through N11 Site Boundary	A3	1:200
P-017	Site Area Analysis	A3	1:1000
P-020	Elevations Weighbridge Control Booth	A3	1:100
P-021	Section & Plan Weighbridge Control Booth	A3	1:100
P-023	Boundary Sections	A1	1:250
P-024	Boundary Sections	A1	1:250
G-001	Visual Prominence of Site & Landscape Amelioration	A3	N/A
G-002	Artist's Impression- View 1	A3	N/A
G-003	Artist's Impression- View 2	A3	N/A
G-004	Artist's Impression- View 3	A3	N/A
G-005	Artist's Impression- View 4	A3	N/A
G-006	Artist's Impression- View 5	A3	N/A
G-008	Artist's Impression- View 7	A3	N/A
G-009	Artist's Impression- View 8	A3	N/A
N/A	Landscape specification	A4	N/A
N/A	Cover letter	A4	N/A
N/A	Site notice	----	N/A
N/A	Newspaper notice	N/A	N/A

**Burke Jenkins Consulting Engineers:**

D1080/D2/H	Drainage Layout	A0	1:250
-----	Calculation	A4	N/A

**Trafficwise:**

027801/01/01/RFI101/D	RFI Response	A1	Various
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**O'Callaghan Moran:**

Revised Environmental Impact Statement		A3/A4	Various
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**Martin Murray Architects  
10 July 2008**

**Michael Cregan and Associates**  
**Environmental Planning**  
t 01 2892138/2892130  
f 01 2892138

20074161

**info@mcregan-associates.net**

**Preliminaries and Specification**  
**Landscape Works**  
**Enniscorthy MMA**

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**1.0 PRELIMINARIES**

**1.1 Name of Practice**

Landscape Architects:

Michael Cregan and Associates  
6 Brookville Park  
Blackrock  
Co. Dublin  
info@mcregan-associates.net

**1.2 Description of Work**

The work consists of general works, site preparation, soil preparation, shrub/groundcover planting and tree planting. Exact dates for completion of works will be finalized after the award of the contract.

**1.3 Standards of Workmanship and Materials**

The Landscape Contractor shall satisfy the Landscape Architect that all works have been carried out to comply with BS 4428 (General Landscape Operations), BS 3936 (Nursery Stock), and BS 3882 (Topsoil). It is essential that the site is tidy at all times, and that the planting appears healthy. The Landscape Contractor should be prepared, at all times, to ensure that such conditions are met and should include for this in his rates. Any materials not meeting the specifications or qualifying for the approval of the Landscape Architect, for whatever cause, shall be rejected. The Landscape Contractor shall familiarize himself/herself with the layout of services and the positions of all structures on the site and shall be liable for any damage to the above. No existing plants shall be removed or damaged, other than those specified by the Landscape Architect

**1.4 Notice of Intentions and Recording Actions**

The Landscape Contractor shall give 48 hours notice of his intention to commence setting out, planting and maintenance visits. The Landscape Contractor shall return a weekly record of all site actions.

**1.5 Leaving the Site Tidy**

The site shall be left in a neat and orderly condition at the end of each day's work.

**1.6 Season**

Landscape work shall take place in the appropriate season and only when the conditions are suitable, i.e. it is dull, moist and mild, without undue risk of frost or drying winds. There shall be no cultivation or planting when the soil is frozen or waterlogged. If exceptional weather conditions occur after planting, e.g. heavy frosts, measures shall be taken as approved by the Landscape Architect.

**1.7 Replacement**

The sub-contractor shall make good at his own expense any losses of trees and plants which die or appear unhealthy at any time up to practical completion in the twelve months after planting. The sub-contractor shall make good at his own expense any losses of trees and plants which die or appear unhealthy at any time prior to handover. Plant failures will not be charged to the Landscape Contractor if the failure is due to; damage by hares, rabbits, deer, livestock where not protected by guards or fencing, damage/ losses due to theft, vandalism or disturbance by other contractors. Persistence of weed in planted areas will be regarded as a contributory cause of failure due to drought. Prolonged dry weather will not exonerate the Landscape Contractor if the scheduled maintenance operations have not been carried out as programmed.

**1.8 Damage**

All trees and plants are to be adequately and carefully packed and protected to survive transport, by whatever means, to the site, during loading, transit or unloading. In spite of these precautions roots, branches, or shoots suffer slight damage, they shall be carefully pruned. If major damage has occurred, the plant or tree shall be rejected and replaced at the Landscape Contractor's own expense.

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### **1.9 Defects Liability Period**

The Landscape Contractor shall be responsible for any plants that fail to take during the first full growing season (12 months) from date of completion.

### **1.10 Protection**

The Landscape Contractor shall provide adequate temporary protection to the whole of his work and shall include temporary coverings, planked barrow runs and all other measures for protecting the work from damage. The Landscape Contractor shall also protect from damage all existing roadways, kerbs, services and other completed works on site. Any work damaged or soiled by weather, traffic or other causes, due to inadequate temporary protection, shall be removed and made good at the cost of the Landscape Contractor. The form of protection is left to the discretion of the Landscape Contractor.

### **1.11 Programme of Operation**

The Landscape Contractor shall execute his works in conformity with a programme to be agreed with the Landscape Architect and shall include it in his estimate for working within an agreed time limit. No individual areas will be handed over unless there is an agreed sectional completion. The Landscape Contractor shall allow for keeping individual areas adequately maintained until the whole has been completed.

### **1.12 Site Inspection**

Prior to the submission of tenders to the Landscape Architect, the Landscape Contractor is expected to visit the site and familiarize himself with the nature of the existing roads and pathways, the soil conditions, slope gradients, any hazards and other matters affecting the works. No extra charges will be allowed for any misunderstandings, or incorrect information, or on grounds of insufficient description or lack of information.

### **1.13 Setting Out**

The Landscape Contractor will be responsible for checking all schedules and drawings by the Landscape Architect. In the event of any discrepancies being found between such schedules and drawings, or if the Landscape Contractor considers that additional detail drawings are required, the Landscape Contractor shall report such discrepancy in writing at least ten days before the works are to be executed. The right is reserved to adjust the exact position of trees and specimen shrubs after they have been set out on site. Any trees which are planted without conformity to the setting – out, or without approval, may be required to be re planted at the Landscape Contractor's expense.

### **1.14 Supervision and Contractor's Staff**

The Landscape Contractor shall ensure full and adequate supervision of the site during the duration of the works. The Landscape Contractor shall at all times during the Contract period employ sufficient persons of appropriate abilities, skills, care, and experience as are required for the proper performance of the Services in accordance with the Contract and shall ensure that a sufficient reserve of persons is available to provide the Services during holiday periods, absences due to sickness and special events/emergencies. The Landscape Contractor will appoint a Contract Manager to supervise those persons employed to perform the Services in accordance with the Contract. The Contract Manager must be available and present in the Contract Area at all times that the Services are being carried out. The Landscape Contractor shall notify the Supervising Officer of the name, address and telephone number of the appointed Contract Manager who will be responsible for receiving notification from the Employer of complaints and instructions under the Contract. The Employer shall be entitled to notify the Landscape Contractor by notice in writing to remove from the Contract or discipline any employee of the Landscape Contractor (which for avoidance of doubt shall include the Contract Manager or his deputy) who, in the reasonable opinion of the Supervising Officer, has shown himself to be unsuitable to perform his duties under the Contract. The Employer shall in no circumstances be liable either to the Landscape Contractor or to the employee in respect of any liability, loss or damage occasioned by such removal or disciplinary action and the Landscape Contractor shall fully and promptly indemnify the Employer against any claim made by such employee. The Landscape Contractor shall ensure that every person employed by the Landscape Contractor in and about the provision of the Services is at all times properly and sufficiently trained and instructed with

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regard to: the task the person has to perform; any relevant provisions of the Contract; relevant rules, procedures and standards of the Employer; all relevant rules, procedures and statutory requirements concerning Health and Safety at work; fire risks and fire precautions; and the necessity to observe the highest standards of courtesy and consideration to the public to promote and enhance the Employer's image and reputation.

#### **1.15 Sequence of Operations**

The sequence of operations shall be as described unless written authority to vary is obtained from the Landscape Architect.

#### **1.16 Insurance, Indemnities, etc.**

The Landscape Contractor shall indemnify, and keep indemnified the Employer against all actions, suits, claims, demands, costs and expenses whatsoever, by reason of, or arising out of the execution of the Contract Works, or any of the matters connected therewith, whether such claim or proceedings be brought or costs or expenses incurred under or virtue of Workmen's Compensation Act, Employer's Liability Act, or any other statute or at Common Law, or otherwise injury, loss or damage caused by, through or in connection with his work. The Landscape Contractor shall arrange insurance to cover the risk of such accidental injury, loss or damage and shall have the Employer indemnified by such insurance policies with approved insurance companies as detailed hereunder and shall take all necessary steps to keep such policies validly in force during the period of Contract work. The Landscape Contractor shall produce such insurances when requested by the Employer.

##### Employer's Liability Policy

This policy should provide for indemnification of the Employer in respect of claims, which could be made, against it as principal by employees of the Landscape Contractor.

##### Public Liability Policy

This policy should provide for the following:

Indemnification of the Employer as principal.

Unlimited cover generally and a limit not less than £1,000,000.00 in respect of any one accident.

##### Full Motor Insurance Policy

This should provide for the following in respect of vehicles and plant governed by the Roads Traffic Act:

Indemnification of the Employer as principal.

Names and addresses of drivers where limited cover only is provided.

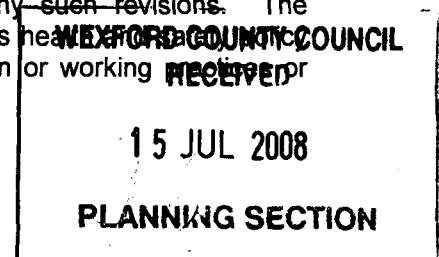
Passenger cover in relation to seating capacity of cab.

Cover for towing including trailers where applicable.

Loading and unloading risks both on and beyond public thoroughfares.

#### **1.17 Health and Safety**

The Landscape Contractors shall at their own cost arrange for the safe keeping during and after delivery to works of all manures, plants and equipment necessary to complete the job in hand. All oil and petrol containers must be kept in suitable sheds and the Landscape Contractor shall observe all regulation regarding the storage of poisonous and/or inflammable liquids. The Landscape Contractor shall in performing the Services adopt safe methods of work in order to protect the health and safety of his own employees, the employees of the Employer and of all other persons, including members of the public and shall comply with the requirements of the Health and Safety at Work Act 1974, The Management of Health and Safety Regulations 1992, Control Of Substances Hazardous to Health (COSHH) Regulations 1988 and 1994, and of the Road Traffic Act 1988 and of any other Acts, Regulations, Orders or any European Directive pertaining to the health and safety of employed persons. The Landscape Contractor shall at the time of submitting his Tender provide to the Employer a written copy of his health and safety working procedures relating to the performance of the Contract. The Landscape Contractor shall review his Health and Safety policy and safe working procedures as often as may be necessary and in the light of changing legislation or working practices or the introduction of new Work Equipment and shall notify the Supervising Officer in writing of any such revisions. The Supervising Officer may require the Landscape Contractor to amend its health and safety policy and safe working procedures to comply with any change in legislation or working practices required as a result of the introduction of new Work Equipment.



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**1.18 Equal Opportunities Policy**

The Landscape Contractor shall keep his equal opportunities policy in force for the duration of the Contract to comply with statutory obligations. Any findings of unlawful discrimination against the Landscape Contractor during the three years prior to the commencement of the Contract shall be reported to the Employer, together with details of the steps taken to avoid repetition.

**1.19 Waiver**

Failure by the Employer at any time to enforce the provisions of the Contract or to require performance by the Landscape Contractor of any of the provisions of the Contract shall not be construed as a waiver of any such provision and shall not affect the validity of the Contract or any part thereof or the right of the Employer to enforce any provision in accordance with its terms.

**1.20 Acceptance**

The Landscape Architect will make payment to the Landscape Contractor following certification of completed works. There shall be no sectional handover unless previously agreed. In appropriate circumstances and where the contract involves the application of a defects liability period following practical completion of landscape works, there shall be a retention amounting to 5% of the total contract price, which shall be released when defects have been made good at the end of the defects liability period.

**1.21 Default in provision of the service**

Without prejudice to any other powers of the Employer, if the Landscape Contractor, for whatever reason fails to provide or perform the Services in whole or in part completely in accordance with the terms of the Contract, then without prejudice to any remedy contained herein the Employer may by his own or other workmen provide and perform such Services or part thereof in which the Landscape Contractor has made default. The costs and charges incurred by the Employer in so doing shall be paid by the Landscape Contractor to the Employer on demand or may be deducted by the Employer from any moneys due or which may become due to the Landscape Contractor. In the event of non-completion of specified works, non-compliance with specification, faulty workmanship or use of defective materials, the Landscape Contractor will be deemed to be in breach of contract and payment may be withheld in full or in part pending completion or execution of remedial works.

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## 2.0 SPECIFICATION

### 2.1 Topsoil

Topsoil shall be native topsoil as removed and stored. All imported topsoil shall be of medium texture, pH matching that of the native topsoil, stone content 10mm in size not greater than 5% by weight, and no stones greater than 40mm in any dimension, and shall conform to BS 3882:1965. Topsoil shall be a free draining sandy loam. Depth of topsoil to be as specified. Topsoil shall be free of perennial weed roots, i.e. couch grass, sticks, sub soil or any waste, toxic, putrescent or foreign matter.

### 2.2 Plants Generally

All plants shall conform fully to the specification in respect of species, size and quality. The Landscape Contractor shall investigate the sources of supply and satisfy himself that he can supply all of the plants specified on the planting schedule in the size, variety and quality before submitting a bid. Substitutions will not be permitted. If proof is submitted that any plant specified is not obtainable, a proposal will be considered for use of the nearest equivalent size or variety, with an equitable adjustment of contract price. All plants shall be well grown, sturdy and bushy, according to type, and free from all disease and defects. The Landscape Architect reserves the right to reject any plant material before or after planting if it does not conform to the specification. All plants shall be adequately hardened off prior to planting, where frost or cold winds may be a problem. All plants shall be supplied with temporary labels with the full botanical name, on each bundle or batch of plants. The Landscape Contractor should indicate in his tender the source of materials to be used and where they can be inspected prior to the award of the contract. All plants that do not conform to the specification will be automatically rejected and must be removed from site and replaced at the Landscape contractor's expense. All trees, shrubs and other plant material shall comply with the minimum requirement of the relevant British Standards below:

BS 3936	Part 1: Trees and shrubs
BS 3936	Part 10: Specification for groundcover plants
BS 3936	Pt 5:1985 Nursery Stock. Poplars and Willows...
4428:1989 & AMD	Code of Practice for general landscape operations

### 2.3 Time of Lifting

Bare root plants must only be lifted when the ground is moist and the plants are dormant between November and end March of the current year. Lifting must never take place when there is a severe ground frost. Particular attention must always be paid to the protection of the roots on lifting when there is a strong drying wind or sun.

### 2.4 Protection

Care must be taken to ensure that bare roots are protected from physical damage and desiccation at all times. All bare roots must be covered within two hours of lifting.

### 2.5 Labelling

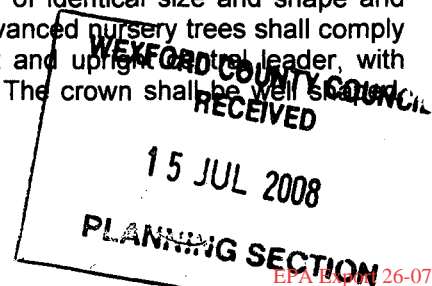
Each individual plant, bundle, bag, or lot of one species shall be labelled with a securely attached label, clearly indicating the plant name, grade and quantity.

### 2.6 Container grown Shrubs and Groundcovers.

Shrubs shall be bushy, well-established nursery stock with a good fibrous root system. They shall be container grown, true to size, name and description as scheduled. Shrubs shall conform to the appropriate British Standards. Plants shall not be pot bound, nor with roots deformed or restricted. Bare root material will only be accepted where specified.

### 2.7 Trees

Trees shall conform to the appropriate British Standards. All trees should be full and well shaped, bark unmarked and have healthy root systems. The Landscape Architect must inspect and approve all trees prior to lifting or planting. Trees must all be of identical size and shape and should originate from the same stock nursery and stand. All advanced nursery trees shall comply with BS 5236: 1975. They shall have a well-defined, straight and upright central leader, with branches growing out of the stem with reasonable symmetry. The crown shall be well shaped.



balanced, of a form and habit natural for the species. Trees shall have a sturdy, reasonably straight stem not less than 1.8m from ground level to the lowest branch. Trees shall conform to specified height with well-developed, uniform branching systems.

### 2.8 Shrub/Groundcover Sizes

All shrubs and groundcovers shall be supplied as sizes indicated in the Bill of Quantities and Contract drawings.

### 2.9 Tree Sizes

Unless otherwise specified, all trees shall be as follows: -

	Girth	Height
Feathered		1.2- 3.0m
Standard Tree	80 – 100 mm	2.4m
Heavy Standard Tree	120- 140 mm	3.5 - 4m
Extra Heavy Standard Tree	140 -160 mm	4.2 – 6.0m

### 2.10 Tree Anchors, Stakes, Guys, etc.

All trees shall be fitted with one tree stake per tree. Tree stakes shall be peeled poles of oak, sweet chestnut, pine or Douglas fir, or tanalised larch. All stakes shall be preserved with water borne copper chrome arsenic to IS 131, to a net dry salt retention of 5.3kg per cubic metre of timber. Stakes shall be supplied as sizes specified. They shall be at least 1.1metres long unless otherwise specified, with a minimum diameter of 75 mm at both butts. Stakes shall be driven prior to planting with a drive all, wooden maul or cast iron mull, not with a sledgehammer. Trees shall be tied to each stake with a purpose made tie and spacer, the tie to be overlapped and thrice nailed to the stake. Tree ties shall be rubber or PVC or proprietary fabric laminate composition, and shall be durable enough to hold the tree secure in all weather conditions for a period of three years. They shall be flexible enough to allow for proper tightening of the tie. Tree ties shall be 25mm - 40mm wide depending on tree size. They shall be fitted with a simple collar spacer to prevent charring, and with a buckle for adjustment.

### 2.11 Mulch

Mulch shall be graded bark chippings from coniferous trees, particles 25- 75mm, free of fine material, dust or wood. Mulch will be rejected if in the Landscape Architect's opinion it is likely to be wind blown. The Contractor should arrange to have an on - site sample (or samples) inspected by the Landscape Architect prior to spreading. Spreading without the approval of sample is at the Contractor's own risk.

### 2.12 Approved chemicals

All chemicals used shall be non-toxic to human beings, birds and animals under normal use, and chemicals, which are not agriculturally approved, shall not be used.

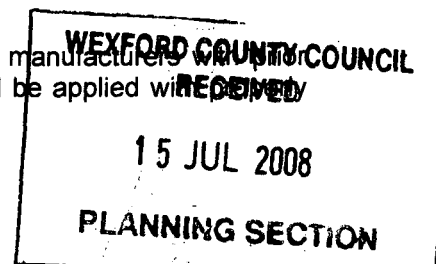
The use of the following herbicides is acceptable:

Roundup  
Basta  
Actrilawn 10  
Casoron G  
Kerb Flo

The use of the following fertilizers is acceptable:

Fisons PS5 : Grass areas  
Osmocote Plus- fertiliser N:P:K 15:9:11 plus trace elements: Shrub areas  
Enmag - 4:19:10 + 7.5%: Tree planting

The Landscape Contractor may only use alternative formulations and manufacturers without approval by the Landscape Architect. All weed killer and fertilizer shall be applied with care.



designed equipment, maintained in good order and calibrated to deliver the specified volume, evenly and without localized overdosing. All quantities shall be accurately measured.

### 2.13 Grass Seed

Grass seed shall conform to the requirements of British Standard 4428:1969 and subsequent amendments, and to the European communities (seed and fodder plants) regulations 1976. The Landscape Contractor shall supply, with each seed mixture, a certificate stating the composition, purity, germination, year of collection and country of origin. The germination capacity of each constituent of the mixture should be not less than 80%, and the purity of the mixture not less than 90%. Total weed seed content should not be more than 0.5% and the total content of other crop seeds should not be more than 1%. These minimum figures shall be for the current 14 month period of annual tests. The seed is to be thoroughly re-mixed before sowing to avoid patchiness on the ground and is to be 'Coburn's Urban Parks mix' or similar approved sown at a rate of 35 50g per square metre.

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PLANNING SECTION

## 3.0 WORKMANSHIP

### 3.1 Site Clearance

All rubbish occurring in top soiled areas, including weeds, old masonry and rubble, metal, wood, and stones, shall be removed, excavating as necessary to permit the specified depth of final cultivations. All shrub areas shall be grubbed and all existing plants shall be removed and disposed of including all root systems unless otherwise specified. Before topsoiling, all stones over 75mm in diameter shall be removed. Any areas polluted by oil or chemicals shall be dug out and made up with clean soil. The formation under any areas liable to ponding of rainwater shall be broken up, so that they are freely draining. Topsoil shall be moved and spread only in dry weather. No work to topsoil shall be carried out when it is waterlogged, or if its moisture content is conducive to structural deterioration. Compaction of topsoil and subsoil shall be minimized when spreading. Machinery will as far as is practicable be run over the surface as little as possible.

### 3.2 Cultivation Generally

The aim of cultivation is to produce a well-drained and textured soil suitable for plant growth. All areas to be planted, or seeded shall be cultivated to a minimum depth of 450mm or deeper if specified. Areas where obvious compaction has occurred shall be ripped. Stones above 75mm longest dimension shall be removed from the top 100mm layer of shrub planting areas.

### 3.3 Final Preparation - Shrub planting areas

Coarse clean moist compost or approved peat substitute shall be forked in at a rate of 5kg per square metre and incorporated to a depth of 200mm. Controlled release fertilizer N: P: K 15:9:11 plus trace elements - Osmocote plus or similar approved shall be applied at specified rates and raked into the top 50mm layer. The surface shall be raked to a tilth suitable for planting.

### 3.4 Planting Season

Planting shall normally be carried out during the period 1st October to 31 March in suitable weather. Containerised plants may be planted throughout the year provided the weather is suitable, the soil is sufficiently moist and each planted is watered following planting. Planting outwith the specified planting period will only be permitted in exceptional circumstances at the discretion of the Landscape Architect; such exceptional circumstance shall include unsuitable weather. No penalty shall be incurred, provided that any delay is formally accepted by the Landscape Architect as attributed to weather. In the event that works are delayed by inclement weather, the Landscape Contractor shall complete them at the earliest opportunity afforded by suitable weather.

### 3.5 Planting Generally

All planting operations shall be carried out in accordance with BS 4428 and good horticultural practice. The Landscape Contractor shall provide the Landscape Architect with the species and quantities reserved from each named nursery, and the Landscape Architect shall have the right to inspect such nursery stock as deemed necessary, prior to its purchase by the contractor. All plant labels are to be kept on their respective plants by the Landscape Contractor until the final

inspection has been carried out. Only on approval from the Landscape Architect may the Landscape Contractor remove such labels. Bare rootstock shall be delivered to the site on the day of planting. If under exceptional circumstances planting cannot take place within 12 hours of delivery, stock shall be healed in or their roots shall be adequately covered with moist hessian or good quality topsoil for a maximum period of ten days. The roots are to be kept moist throughout this time by adequate watering. Water logging shall be prevented. Any plants which fail due to inadequate protection prior to planting shall be rejected and replaced at the Landscape contractor's own expense. Any plants stored temporarily on site shall be protected from adverse weather conditions. Plants with damaged root systems shall not be accepted. After planting, any minor damage shall be rectified by pruning. Plants, which, in the opinion of the Landscape Architect, have been seriously damaged during planting, shall be rejected and replaced at the Landscape Contractor's expense. All planting shall be firmed up if loosened by frost or wind. Prior to planting all bare rooted plants shall be completely immersed in a container of Alignure Root Dip (1:99) solution and container grown plants shall be sprayed with the solution according to manufacturers instructions.

### 3.6 Shrubs

All shrubs shall be pit planted in precise locations as shown in plans. Pits shall be excavated 150mm wider in all directions than the natural root spread of the plant, and the bottom of the pit must be well forked to improve drainage. Back filling of all pits shall be with soil and compost or an approved peat substitute in the ratio of 4:1. All plastic and non-degradable wrappings and containers shall be removed before planting. Make four vertical cuts with a sharp knife on the quadrants through the edge of container grown root balls to sever girdling roots.

### 3.7 Tree Planting

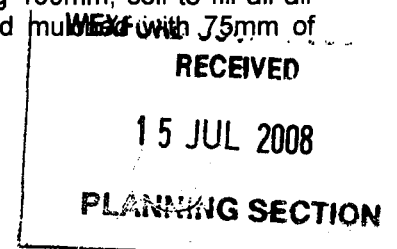
Planting pits for trees in undisturbed ground will be backfilled with excavated material. Tree pits in mounds or other made up ground shall be backfilled with topsoil. All tree pits for all trees shall be excavated 200mm wider in all directions than the natural root spread, or rootball, and the base forked to improve drainage. Stakes shall be positioned before backfilling. Topsoil backfill shall be mixed with peat substitute in the ratio of 4:1. 60g Enmag or similar approved slow release fertilizer shall be incorporated. The backfill shall be settled and well firmed around the roots avoiding air pockets. Sides of tree pit shall be ripped and loosened to ensure a good bond with the backfill and to avoid root girdling. All semi mature tree pits shall be backfilled with mix consisting of: 10 parts native topsoil and 5 parts sharp sand. 60g Enmag or similar approved slow release fertilizer shall be incorporated. Backfilling shall be firmly tamped every 150-200mm and when pit is half full the backfill shall be flooded for further settlement. After excess water has drained further soil shall be added, tamped, and a final watering shall be given just before the final 75mm of backfill added. The backfill shall be settled and well firmed around the roots avoiding air pockets. All trees shall be well watered after planting. the excavations of the tree pits. While excavating, tracked or balloon wheeled machinery shall operate on protective mats or wooden sheets to prevent compaction.

### 3.8 Hedging

Hedging shall be trenched to a depth of 300mm and 600mm wide for a double row hedge. The bottom 150mm shall be forked over. Planting shall be carried out in the dormant season only. The hedging plants shall be set 400mm apart staggered as double row planting. Plants shall be supplied bare rooted and must be kept moist and shaded before planting. When planting, the roots shall be spread out. All damaged roots and roots shall be trimmed. The original soil mark shall be level with finished ground level. The trench shall be backfilled with topsoil screened to remove all stones over 40mm and 600g bone meal shall be incorporated per m3 of topsoil. The trench shall be watered to field capacity after planting.

### 3.9 Whips

In previously cultivated ground, planting pits to 60mm dia x 450 mm depth shall be excavated. The bottom of each pit shall be forked over to 250mm. Whips shall be planted at 1.5m centres. Selected topsoil mixed with spent mushroom compost or other equal and approved organic manure at a rate of 3kg/m3 shall be backfilled in layers not exceeding 150mm, soil to fill all air spaces around roots. The pits shall be watered to field capacity and mulched with 75mm of conifer bark 20 - 40mm particles





### 3.10 Mulch

On completion of planting, the total area of the disturbed soil is to be mulched to a depth of 50mm. The soil and the mulch shall be thoroughly wetted prior to application, and also prior to application a complete clearing through and weeding of the area shall be carried out, leaving the soil weed free, smooth and conforming to acceptable finished levels.

### 3.11 Final preparation - Seeding Areas

One week before seeding, Fisons PS5 or similar approved pre-seeding fertiliser shall be spread at a rate of 70g per square metre and incorporated in the surface layer. The soil shall be firmed and raked to a fine tilth suitable for seeding.

### 3.12 Seeding and Establishment

Grass seeding rate shall be:- 25-35gm per square metre. Seeding shall only be carried out at the correct season and in suitably calm but moist weather conditions. Seed shall be cross sown in two directions at right angles to each other (half the seed to be used in each directions) to prevent striping. After sowing, all areas shall be lightly raked with a chain harrow or by hand. About 48 hours before the first cut, large stones (more than 40 mm in any dimension), shall be removed and all areas rolled with a light roller to firm grass and press in all remaining stones. When the grass is established and from 40 mm to 75 mm high, according to the seed mixture, it should be topped with a roto-scythe so as to leave from 25 mm to 50 mm of growth, to cut weeds, to control the growth of coarser grass and to encourage tillering. Grass areas shall only be accepted as reaching practical completion when germination has proved satisfactory and all weeds have been removed. No payment for re-seeding shall be made to the Landscape Sub-Contractor if the seed fails due to any cause whatsoever, she shall be required to make good the soiling and repeat the seeding until a good sward is obtained.

### 3.13 Watering

During dry periods at any other times deemed necessary prior to practical Completion, the Landscape Contractor shall water all plant areas. The Landscape Contractor must give notice to the local water Authority that a supply of water will be required for the execution of the works. The Landscape Contractor is to ensure that he is aware of any restrictions on the use of water and hose pipes, which may be applied by the water Authority and is to comply with any such restrictions. Care shall be taken to avoid soil wash off the shrub area and disturbance of the peat mulch. Any damage caused by soil-wash shall be immediately rectified by the Landscape Contractor at his own expense, to the approval of the Landscape Architect. Watering shall be carried out to add moisture to the full planting depth. No minor surface watering shall be carried out. The Landscape contractor shall allow for watering of all plants to field capacity as and when necessary, until practical completion is achieved.

### 3.14 Weeding

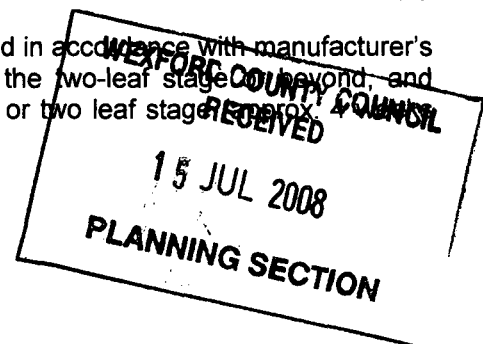
All planting areas are to be kept free of weeds and rubbish prior to Practical Completion. All planting areas are to be hoed, forked or hand weeded. The use of chemicals shall be only be upon approval from Landscape Architects.

*Roundup - by Monsanto chemicals Ltd. 4 - 5litre/Ha. Do not apply when rain is forecast within six hours. Do not apply when wind is likely to cause spray drift (over 24kph / 15mph). Allow for leaf symptoms to develop before carrying out any cultivation. Apply to manufacturers recommendations. Apply 'Roundup' to kill existing grass pre-seeding, and weeds germinating in topsoil.*

If germinating weed grasses are less than 100mm high and broad leaved weeds have not produced full-sized leaves, do not apply 'Roundup'. Apply 'Basta' @ recommended rates, 4 to 7 days before cultivating.

*Basta - by Hoechst Ltd. 3 - 7.5litre/Ha. Do not apply when rain is forecast within six hours. Apply to manufacturers recommendations.*

*'Actrilawn 10' - by May + Baker Ltd., 11litre/Ha. Shall be used in accordance with manufacturer's instructions. Apply 'Actrilawn' when grasses have reached the two-leaf stage beyond, and when seedlings have emerged and have reached cotyledon or two leaf stage (cotyledon after sowing). Do not mow grass within 7 days of treatment.*



*Casoron G* - Granular weedkiller to be applied 5.6-22.5 kg /1000sq.m. Shall be used in accordance with manufacturer's instructions.

*Kerb Flo* - weedkiller to be applied 3.75 - 4.25litre/Ha. Shall be used in accordance with manufacturer's instructions.

#### 4.0 Maintenance Operations

##### 4.1 Maintenance generally

Work shall be in accordance with -:

BS 7370 Pt 1 grounds maintenance. General Recommendations

BS 7370 Pt.4 Grounds Maintenance, Maintenance of soft Landscape

##### 4.2 Debris Removal

Excessive amounts of leaf and litter (dead twigs, branches, leaves, bark, etc.) as it accumulates shall be removed in maintained areas. Leaves and other organic material useful as mulch may be left in place upon approval of the Employer. Additional visits will be facilitated as requested by Employer. Stone or debris over 50mm diameter shall be removed or buried after each maintenance visit.

##### 4.3 Monthly Maintenance - Maintenance Certificate

Throughout the one-year maintenance period following completion of planting, the Contractor shall maintain the site in a weed free, tidy and tended condition. He shall include in the Schedule of Rates a realistic amount to cover the cost of such maintenance for the full year period.

##### 4.4 Maintenance Report

All maintenance operations shall be noted in a schedule itemising works completed, time of maintenance visit, comments, etc. and shall be submitted to the Landscape Architect.

##### 4.5 Tree Planting - Maintenance period

The contractor shall be responsible for the aftercare and maintenance of the trees planted as completed works for 12 months from the date of practical completion.

##### 4.6 Tree Planting - Weed control

Weeding may only be done by hand, except in exceptional circumstances where persistent perennial weeds may be treated chemically. The use of chemicals shall only be upon approval from the landscape architect. In the winter a first application of the residual weed killer 'Kerb Flo' shall be applied in the according to the manufacturer's instructions, for tree areas, immediately after the area has been planted and before any weed germination has taken place. Annual or perennial weeds which grow shall be spot treated by the contact weed killer 'Basta', according to the manufacturer's instructions, care been taken to ensure no spray touches any part of the leaves. An application of 'Roundup' may be applied from August on, strictly according to the manufacturer's instructions for tree areas. It is to be noted that the surface of the ground shall not be physically disturbed. Noxious weeds (dock, thistle, ragwort) shall not be allowed to establish. All soil surfaces shall be generally free of weeds at all times and shall be entirely free of weeds after each maintenance visit. No grass shall be allowed to encroach into soil areas. Weed free circles around trees shall be 1000mm diameter in grassed areas. Weeds shall not cover 10% of circle at any time during maintenance period.

##### 4.7 Tree Planting - Watering

Careful attention to water is essential during dry spells and may be critical in the case trees. Trees shall be watered as necessary and to their full planting depths. Trees shall be watered as required after any period of 4 weeks without significant rainfall (less than 5mm). Trees shall receive 9 litres of water during the watering period.

##### 4.8 Tree Planting - Fertilizer

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Top dressings of organic matter such as cow, horse or sheep manure or proprietary materials shall be applied to trees and shrubs - once in spring, twice during the summer and once again in winter. This treatment is to be carried out for the duration of the maintenance contract. Alternatively, if so wished, inorganic fertilizer can be applied as 'Osmocote' 18:11:10, at 50g / square metre in spring and late summer.

#### **4.9 Tree Planting - Wind Firmness, Stakes and Tree Ties**

All plants shall be regularly inspected for wind firmness and firmed as necessary at the same time. Stakes shall likewise be checked for firmness and all tree ties inspected and made good as required.

#### **4.10 Shrub Planting - Maintenance Period**

The contractor shall be responsible for the aftercare and maintenance of the completed works for 12 months from the date of practical completion.

#### **4.11 Shrub Planting - Weed control**

Weeding may only be done by hand, except in exceptional circumstances where persistent perennial weeds may be treated chemically. The use of chemicals shall only be upon approval from the Landscape Architect. In the winter a first application of the residual weedkiller 'Kerb Flo' shall be applied in the according to the manufacturer's instructions, for shrub areas, immediately after the area has been planted and before any weed germination has taken place. Annual or perennial weeds, which grow, shall be spot treated by the contact weedkiller

'Basta', according to the manufacturer's instructions, care been taken to ensure no spray touches any part of the shrubs.

An application of 'Roundup' may be applied from August on, strictly according to the manufacturer's instructions for shrub areas. It is to be noted that the surface of the ground shall not be physically disturbed. If foliar acting weed killers are applied, all plants shall be protected during their application with 'Arboguard', 'Politec' or similar approved. No residual herbicide shall be used in the first season of planting. Noxious weeds (dock, thistle, ragwort) shall not be allowed to establish. All soil surfaces shall be generally free of weeds at all times and shall be entirely free of weeds after each maintenance visit. No grass shall be allowed to encroach into soil areas. Weed free bands along hedges shall be 750mm wide. Weeds shall not cover 10% of circle at any time during maintenance period.

#### **4.12 Shrub planting -Watering**

Careful attention to water is essential during dry spells and may be critical in the case large shrubs. Shrubs shall be watered as necessary and to their full planting depths. Shrubs shall receive 4.5litres of water during the watering period.

#### **4.13 Shrub planting -Fertilizer**

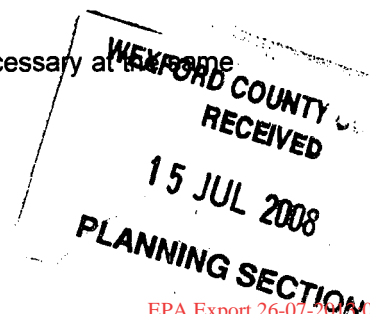
Top dressings of organic matter such as cow, horse or sheep manure or proprietary materials shall be applied to trees and shrubs once in spring, twice during the summer and once again in winter. This treatment is to be carried out for the duration of the maintenance contract. Alternatively, if so wished, inorganic fertilizer can be applied as 'Osmocote' 18:11:10, @ 50g / square metre in spring and late summer.

#### **4.14 Shrub planting - Pruning**

Any pruning should involve removal of dead, diseased or badly crossing branches or shoots. Deciduous shrubs are best pruned in winter when new and old growth can be easily distinguished. Allow shrubs that flower on the current season's growth to be pruned back to older wood soon after flowering. Any pruning should involve removal of dead, diseased or badly crossing branches or shoots.

#### **4.15 Shrub planting -Wind Firmness**

All plants shall be regularly inspected for wind firmness and firmed as necessary at the same time.



20074167

**4.16 Grass Areas - Maintenance Period**

The contractor shall be responsible for the aftercare and maintenance of the completed works for 12 months from the date of practical completion

**4.17 Grass areas - Maintenance**

Grass shall be cut regularly (a total of 40 times during each growing season) to a length consistent with the season and quality of growth, and rolled as necessary. Cuttings shall not normally be removed unless otherwise directed. Cuttings shall be spread evenly on grassed areas. All grass cuttings shall be swept and removed from hard standing areas.

**Note:** Grass shall be established with a height of cut at about 20mm. Mowing shall be carried out under dry weather conditions. Prior to mowing all litter shall be removed from grass areas. Grass cutting in areas of bulbs/corms shall not be undertaken until June or until such time, as dieback has occurred.

**4.18 Grass Areas – Fertilizing**

The sward shall be given one application of an approved top dressing 10:10:20 applied in two equal passes in transverse directions at a combined rate of 17 g/ square metre, also avoid any banding.

**4.19 Grass Areas - Weed Control**

The sward shall be maintained weed free by the application 'Actrilawn 10' - by May + Baker Ltd., 11litre/Ha. Weedkiller shall be used in accordance with manufacturer's instructions. Apply 'Actrilawn' when grasses have reached the two-leaf stage or beyond, and when seedlings have emerged and have reached cotyledon or two leaf stage (approx. 4 weeks after sowing). Grass shall not be known within 7 days of treatment. A selective weedkiller shall be applied for the presence of Clover; a formulation of 'Mecoprop' and 2,4-D suitable for turf. Apply when clover is growing vigorously, in accordance with manufacturer's instructions. Do not spray in windy conditions, or within 1.5m of shrub planting without protection. Apply in two half doses, at right angles to each other.

**4.20 Grass Areas – Trimming**

The edges of seeded areas adjoining beds and margins where board edgings or mowing margins have not been constructed are to be carefully trimmed square and true to line.

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20074161


# WEXFORD COUNTY COUNCIL SITE NOTICE OF FURTHER INFORMATION/REVISED PLANS

Name of Applicant: **Greenstar Limited**  
Reference Number of the application: **20074161**

## THE DEVELOPMENT APPLIED FOR CONSISTED OF:

The creation of a Materials Recovery and Transfer Facility site, including inter alia a single storey Recovery and Transfer Building, a two storey Administration/Staff Amenity Building, two no. Weighbridges with associated single storey Control Room, associated external operational plant areas including odour control plant and ventilation flues; Single storey ESB transformer/substation and services rooms; Vehicle Refuelling and truck washing facilities; all associated security and acoustic fencing, with mounding and landscape planting to site boundaries, (including perimeter landscape planting to boundaries of adjacent site in the ownership of the applicant); fuel tanks and associated bund walls, hard standings including skip storage, plant storage, vehicle and cycle parking, and all other associated site works including two main vehicular entrance/exit points unto the existing Old Dublin Road. This project is the subject of an application to the Environmental Protection Agency, for a waste licence, to include activities consisting of 'waste segregation', 'waste recovery', 'waste storage', 'waste transfer into vehicles for removal off-site', all of which are described in detail in an accompanying Environmental Impact Statement (E.I.S.), which is being submitted to the Planning Authority with this application. This E.I.S. and accompanying documentation will be available for inspection, or purchase at a fee not exceeding the reasonable cost of making a copy, during office hours at the offices of the Planning Authority as noted below. All of the relevant waste recovery and waste disposal activities are as per the third and fourth schedules of the Waste Management Acts 1996 to 2003, and the Waste Management (Licensing) Regulations 2004, (S.I. No. 395 of 2004) to which this application relates. All on a site at Clavass, Old Dublin Road, Enniscorthy, Co. Wexford, (E298250/N143520). Signed: Greenstar Limited.

Significant Further Information/Revised Plans have been furnished to the planning authority in respect of this proposed development, and are available for inspection or purchase at the offices of the authority during its public opening hours. A submission or observation in relation to the further information or revised plans may be made in writing to the planning authority within the statutory time limit. A submission or observation must be accompanied by the prescribed fee, except in the case of a person or body who has already made a submission or observation.

SIGNED:  (AGENT)  
MARTIN MURRAY ARCHITECTS, 19 PEMBROKE ROAD, BALLSBRIDGE,  
DUBLIN 4 (TEL: 01-212 0000 FAX: 01-212 0001)

DATE OF ERECTION OF SITE NOTICE: 11th July 2008

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EPA Export 26-07-2008 10:29

**TO LET**

**TO LET**  
On St., D.2

7 9699  
8 847 5007

**TO LET PREMISES**

**AVAILABLE** in 20  
containers in Santry  
747

less Centre, 1km  
section, Swords  
2,400sqft  
floor, Suit many  
h: 086 8570493

**FOR SALE**

All in grass. 2.5  
acres, Swords  
h: 087 6824593

**TO LET PREMISES**

**1 HOTEL**, newly  
built, 10 miles  
h: 087 229 3346

licence for sale  
h: 087 229 3346

licence for sale 160K  
lorcanocoon@eir

**FOR KILFANE**

Co. Kilkenny,  
staurant/function  
room on c.3 acres  
value. Sherry  
Creery. Ph: 056

**N. Knocktopher**  
Sale of fine 2-stor.  
117-day licensac  
nile Ballyhale, 12  
Waterford, 2.5  
/ Thomastown,  
325,000. For Sale  
on Friday 1st  
00 p.m. Contact  
Auctioneer. Tel  
r 087 2579012

licences for sale  
h: 087 8870560

**TO LET**

1/Long lease, Pkg  
h: Jude 01494000

sq.ft + mezz + 2  
t term-flexible,  
087 919 3311.

1st floor office  
400sq.ft, fully  
rent €20psf.  
159332.

200sq.ft offices  
fully serviced, incl  
rt & long term.  
55.

iced Mod Offices  
ant-house suite  
he bay, various  
uerite 6658600

**TO LET** Co. House,  
inning own door  
3 sq m upwards.  
OR 01 6342466  
erry FitzGerald

**HOUSE** to let -  
1st + mezz + 2  
term flexible,  
Tel. 087 9193311

**UN LAOGHAIRE**  
ned Office, Sea

**PLANNING APPLICATIONS**

**WEXFORD COUNTY COUNCIL**  
— Notice of Further Informa-  
tion/Revised Plans Greenstar  
Limited applied for planning per-  
mission for development of la-  
site at: Clavass, Old Dublin  
Road, Enniscorthy, Co.Wexford  
(E298250/N143520) under  
PLANNING REF: Register No:  
20074161. The development  
consisted of the creation of a  
Materials Recovery and Transfer  
Facility site, including inter alia a  
single storey Recovery and  
Transfer Building, two storey  
Administration/Staff, Amenity  
Building, two no. Weighbridges  
with associated single storey  
Control Room, associated exter-  
nal operational plant areas  
including colour control plant and  
ventilation flues; Single storey  
ESB transformer/substation and  
services rooms; vehicle refuel-  
ling and truck washing facilities;  
all associated security and  
acoustic screening, mounding  
and landscape planting to site  
boundaries, (including perimeter  
landscape planting to boundar-  
ies of adjacent site in the owner-  
ship of the applicant); fuel tanks  
and associated bund walls, hard  
standings including skip storage,  
plant storage, vehicle and cycle  
parking, and all other associated  
site works including two main  
vehicular entrance/exit points  
consisting of existing Old Dublin  
Road. This project is the subject  
of an application to the Environ-  
mental Protection Agency, for a  
waste licence, to include activi-  
ties consisting of 'waste segrega-  
tion', 'waste recovery', 'waste  
storage', 'waste transfer into  
vehicles for removal off-site', all  
of which are described in detail  
in an accompanying Environ-  
mental Impact Statement  
(E.I.S.), which is being submit-  
ted to the Planning Authority  
with this application. This E.I.S.  
and accompanying documenta-  
tion will be available for inspec-  
tion, or purchase at a fee not  
exceeding the reasonable cost  
of making a copy, during office  
hours at the offices of the Plan-  
ning Authority as noted below.  
All of the relevant waste recov-  
ery and disposal activities  
are as per the third and fourth  
schedules of the Waste Man-  
agement Acts 1996 to 2003, and  
the Waste Management (Licens-  
ing) Regulations 2004, (S.I. No.  
395 of 2004) to which applica-  
tion relates. All on a site at  
Clavass, Old Dublin Road,  
Enniscorthy, Co. Wexford,  
(E298250/N143520). Significant  
Further Information has been  
furnished to the Planning  
Authority in respect of this pro-  
posed development, and is  
available for inspection or pur-  
chase at a fee not exceeding the  
reasonable cost of making a  
copy, at the offices of the Plan-  
ning Authority, County Hall,  
Wexford during the hours of  
9.30a.m. to 4.30p.m. Monday -  
Friday (Bank Holidays and Public  
Holiday days excepted) by sub-  
mission or observation in  
relation to the Significant Further  
Information may be made in  
writing to the Planning Authority,  
(on payment of the prescribed  
fee of €20.00) by the applicant  
or a person or body who has  
already made a submission or  
observation), within the period of  
5 weeks beginning on the date  
of receipt by the Planning  
Authority of the Significant Fur-  
ther Information, including,  
newspaper notice and site  
notice. Signed: Greenstar  
Limited

**MEATH COUNTY COUNCIL**  
— We, Tetra Ireland Communica-  
tions, intend to apply for Per-  
mission for development at  
Stalleen, Donore, Co Meath  
The development will consist of  
Construction of a 10-metre support  
pole to carry a 3.9m Radio aerial  
for use by the Emergency Ser-  
vices (Garda, Ambulance and  
Fire Brigade) together with asso-  
ciated equipment for a new  
National Digital Radio Service.  
The planning application may be  
inspected, or purchased at a fee  
not exceeding the reasonable  
cost of making a copy, at the  
offices of the planning Authority  
during its public opening hours  
and that a submission or obser-  
vation in relation to the applica-  
tion may be made to the  
Authority in writing on payment  
of the prescribed fee (€20.00)  
within the period of 5 weeks  
beginning on the date of receipt  
by the Authority of the  
application.

**GOVT. NOTICES**

**PUBLIC NOTICES**

**THE COMMISSIONERS  
OF PUBLIC WORKS  
IN IRELAND**

**The Commissioners of Public Works in Ireland**, in accordance with the provision of Part 9 of S.I. No. 600 of 2001, Local Government Planning and Development Regulations 2001 propose the following works at Kilmainham Garda Station, Kilmainham, Dublin 8:

**Demolition of existing single storey entrance porch (5m<sup>2</sup>) and the construction of new single storey entrance extension (25m<sup>2</sup>)**

**Universal access to the new extension consisting of a platform lift, ramps and steps.**

**Site works consisting of external lighting and signage, flagpoles, a level universal access parking bay and associated structural works.**

**Works to the west wing of the main station building include structural & decorative repairs, incorporating essential roof repairs, including new slates, new rooflights, and upgrade of services.**

**Minor internal modifications are proposed to the west wing of the main station building.**

**A Temporary Public Office by means of a single storey prefabricated structure is proposed for the duration of the works and will be located adjacent to the station buildings.**

Kilmainham Garda Station is a Protected Structure, is located within a Conservation Area and a Zone of Archaeological Interest.

Drawings and particulars of the proposed development will be available for inspection between 9.30am and 12.30pm and between 2.30pm and 5.00pm Monday to Friday during a six week period, beginning on the date of publication of this notice at:

**Office of Public Works, Property Maintenance Division, 51 St. Stephen's Green, Dublin 2.**

and at:

**Kilmainham Garda Station, Kilmainham Lane, Kilmainham, Dublin 8.**

Submissions and/or observations with respect to the proposed development, dealing with the proper planning and sustainable development of the area, may be

**TENDERS**

**TENDERS**

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**mayo county council**



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**TENDER**

**Expressions of Interest – Construction of Sonnagh River Bridge, Realignment of Local Road & Associated Works**

**Restricted Procedure**

Mayo County Council invites tenders from competent contractors to carry out the construction of the Sonnagh River Bridge, Realignment of Local Road & Associated Works at Cartron (ED Sonnagh), Charlestown, Co. Mayo.

The contract is for the construction of a new concrete bridge over the River Sonnagh, the realignment and improvement of approximately 182 metres of single carriageway Local Access Road, the demolition and removal of an existing road bridge crossing of the Sonnagh River, accommodation works and associated ancillary works.

Applicants shall comply with the requirements set out in the information for potential tenderers and the pre-qualification questionnaire and only those applicants who have fully complied with the requirements in this document and have submitted it in accordance with the requirements will be considered for pre-qualification.



The time limit for tenders to participate and pre-qualification submissions is 16.00 hours on **Monday 18th August 2008**.

Further Details are available on the Public Sector Procurements Opportunities Website at [www.etenders.gov.ie](http://www.etenders.gov.ie)



**PLANNING SECTION**  
**Senior Executive Officer,**  
**Capital Works Section,**  
**Mayo County Council, Aras an Chontae, Castlebar, Co. Mayo.**

**Telephone 094 9024444**  
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