Attachment No. 3

Letter of Request for a Refund

MIDLAND ENVIRONMENTAL SERVICES LTD
Dereen, Durrow, Co. Laois
T 0502-36262 F 0502-36314 E info@midland-environmental.ie

31st May 2005

Environmental Protection Agency,
PO Box 3000,
Johnstown Castle Estate,
Wexford,
Co. Wexford

Re: Waste Licence Application 214-1

Dear Sir or Madam,

I refer to the Waste Licence Application by my client, Mr. Ted O'Donoghue & Sons Ltd of Knockpogue, Waterfall, Co. Cork and in particular to the fees paid for the application totaling €20,000.

A request for a refund of 50%, payable to my client under Section 45(1) of the Waste Management Licencing Regulations 2004, is now being sought.

Ted O'Donoghue & Sons Ltd operate a Waste Transfer Station & Recovery Facility at Knockpogue, Waterfall Co. Cork. An application for a waste licence has been submitted to the EPA to accept 23,000 tonnes per annum for disposal and recovery. Of this total anticipated, 17,000 tonnes per annum will be accepted for disposal and 6,000 tonnes per annum for recovery. As is evident the disposal aspect of the activity equates to 74% of the proposed total operation of the site and the recovery activity to 26% of the proposed total activity on site. A licence was required to be submitted as the tonnage to be accepted for disposal is greater than the 5,000 tonnes per annum threshold limit allowable under a Local Authority Waste Permit. Therefore as the significant principle activity on site is the disposal of waste and as such a licence was required because of these tonnages to be accepted at the facility, a refund of 50% is being requested.

Should you have any further queries please don't hesitate to contact me at 0502-36262 or on my mobile 087-2283771.

Thanks and Regards,

Criostoir O'Brien
Waste Management Consultant (BSc Environmental Science)
Midland Environmental Services Ltd

Attachment No. 4

Pat O'Halloran, Consulting Engineers Report

Pat O'Halloran, BE
CONSULTING ENGINEER
Corbally, Ballinora, Waterfall, Cork
Tel.: (021) 4876605 Mobile: (086) 8033613
Fax: (021) 4876606 email: pohconsulteng@eircom.net

Our ref: POH/TOD

Your ref:

12 April 2005

TO: Mr Cristóir O'Brien,
Midland Environmental Services,
Dereen,
Durrow,
Co Laois.

SUBJECT: Waste Recovery & Transfer Station for Ted O'Donoghue at Knockpogue, Waterfall, Cork

RE: Application for Waste Licence.

Dear Cristóir,

Reference to the aforementioned subject matter with particular emphasis to correspondence d/d 27 January 2005, from Ms. Marie O'Connor, Senior Inspector, Office of Licensing & Guidance, epa, Environmental Agency, Regional Inspectorate, Inniscarra, County Cork.

B. General

2. A planning application has recently been submitted for two prefabricated units, one to house an office and the other to house a canteen and toilet.

D. Infrastructure

1. I advise that the soil berm is outside the site boundary, I enclose drawing identifying location of same

2. I advise that the standard to which the bund integrity tests were conducted were based upon CIRIA Report 163 " Construction of bunds for oil storage tanks. The specific standards & specifications listed in the said document were applied in the construction of the bunds within the site.

5. The proposal for the provision of surface water infrastructure is being prepared by O'Shea Leader, Monaghan Road, Cork (att. of: Alan Cashman, TEL: 4316929) It is proposed to commence to the necessary on-site infrastructure works in July of this year, and complete same by September.

7. The proposed proprietary treatment unit for the office, canteen & toilet has a 1500 gal capacity, consisting of two chambers, a primary chamber of 1000 gals and a secondary chamber of 500 gals. Planning permission has been applied for this facility. It is proposed to have it installed by mid-August of this year.

10. I enclose drawing identify the location of the proposed office, canteen & toilet facility.

B. Accident Prevention and Emergency Response

I attach documentation prepared by Allied Fire Protection, listing existing fire extinguishers currently on-site, and including a certificate of their most recent service of same. I advise that Allied Fire Protection carry out an on-site assessment at three month intervals

In assessing the existing facilities relevant to Accident Prevention and Emergency Response, I advise that following my most recent site inspection and on site discussion with Mr Ger Moran of Allied Fire Protection:

- There exists at the south east corner of the site a 10,000 water reservoir, water supply to which is from the rainwater surface run-off from the roof area of the enclosed material recovery facility. In the event of 'external supply' being required to 'top-up' the reservoir, such requirement is met from an existing (borewell & pump) located at the south west corner of the site

- It is proposed to locate 6 Nr 'mobile' 45 Ltr L.W units, complementary to existing fire-fighting facilities, at strategic positions within the scope of the overall site, ie, 3 within the enclosed material recovery facility and 3 in the 'open' yard.

Pat O'Halloran

PAT O'HALLORAN B.E. CIVIL
CONSULTING ENGINEER
021-4876605 - 086 8033613

Attachment No. 5

O'Shea Leader, Consulting Engineers Report

O'Shea Leader OSL

6 Cleve Business Park,
Monahan Rd.,
Cork.

Tel: 021 4316929
Fax: 021 4316931
e-mail: dleader@eircom.net

Consulting Engineers Ltd.
Project & Construction Management
Consulting Civil & Structural Engineers

Mr Cristoir O`Brien,
Midland Environmental Services Ltd,
Dereen,
Durrow,
Co Laois.

30 May 2005

Re: Waste Licence Application for Ted O`Donoghue & Sons Ltd, Knockpogue, Waterfall, County Cork. Ref No 214-1.

Dear Sir,

With regard to the fire fighting water supply for the above application, I have made the following observations:

The existing 10,000 gallon fire water tank is insufficient to cater for fire fighting on the premises.

I propose to install a new tank, which will have sufficient fire fighting capacity.
By referring to the American document, NFPA 1142 "Standard on Water Supplies for Suburban and rural fire fighting, 2001 Edition" which Cork County Council use to size such tanks, I calculated a size for the tank.
By using the formulae shown in Chapter 7 of the above document, a tank with a volume of 525,123 litres will be required to fight a fire.
The two existing hydrants will be maintained, a pair of pumps (one backup) will be required to provide adequate pressure.

Minimum water supply = $\frac{\text{(total volume of structure)}}{\text{Occupancy hazard class}}$ * Construction classification
(US gallons)

From Chapter 5, occupancy hazard classification number = 6
From Chapter 6, Construction classification number = 3
Volume of Main Structure = 277,445 cu.ft

Minimum water supply = 138,723 US gallons
525,123 Litres.

O'Shea Leader OSL

6 Cleve Business Park,
Monahan Rd.,
Cork.

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Consulting Engineers Ltd.
Project & Construction Management
Consulting Civil & Structural Engineers

With regard to the fire water runoff tank, the capacity of this tank will be 790 cu.m.

20 year 24 hr runoff	261.36 cu.m
Fire fighting water	525.123 cu.m
Water on fire tenders	3.6 cu.m.

The location of the wheelwash is shown on the accompanying drawings.

Yours sincerely,

Alan Cashman B Eng MIEI

Typical Information

Soil Index SOIL (From FSR)

Fig I 4.18 (I) Winter Rain Acceptance Potential (WRAP) = 2 (low runoff)

SOIL = $(0.15\ S_1 + 0.3\ S_2 + 0.4\ S_3 + 0.45\ S_4 + 0.5\ S_5)/(1 - S_U)$

SOIL = 0.3(1) / (1 - 0.0) = 0.3

S_n = Fraction of site of particular soil type (where n indicates soil type from Fig I 4.18 (I))

General Information

Average Volumetric Runoff Coefficient C_v for the site = 0.54

Area =		=
Dwellings	7551 m^2	0.007551
Hard standings		1229 m^2
Gardens/ Public Open Space		1630 m^2
Entire Site	7551 m^2	4692 m^2

Runoff coefficient for surfaces are
Dwellings at 1.0
Hardstanding, roads and footpaths at 0.9
Grass and private gardens at 0.30

Average Volumetric Runoff Coefficient		C_v			
C_v	=	4103.6 / 7551 =	0.543	say	0.54

Standard Annual Average Rainfall (SAAR) =	1000 mm	(from Fig II 3.1 (I))

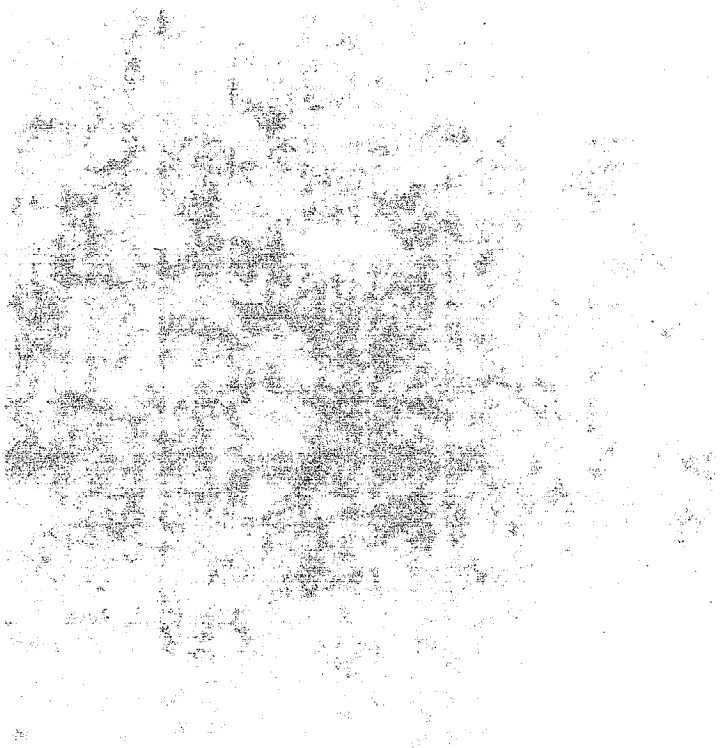
Volume into lagoon (V_{in}) = AREA x C_v x R
Volume out of lagoon (V_{out}) = Q_{BAR} x D(seconds)
Volume of Storage $V_s = V_{in} - V_{out}$

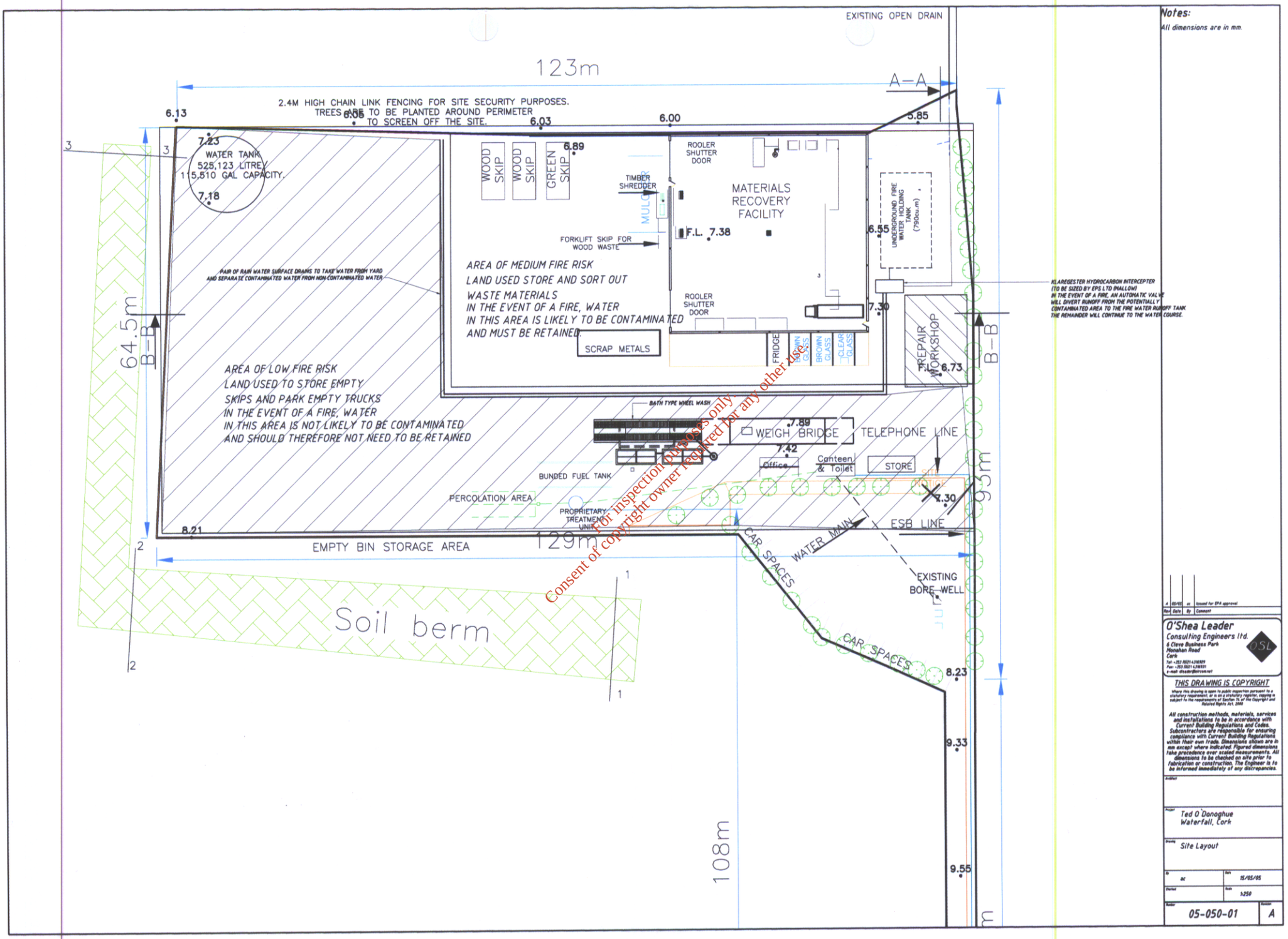
Rainfall Estimates based on Flood Study Report

Fig II 3.2 (I)	M5 2 day =	75 mm
Fig II 3.5 (I)	r =	0.25
	M5 60min =	18.8 mm
	M5 24hr = M5 60min x Z_1	
Fig A 3a	Z_1 =	3.30
	M5 24hr =	61.88 mm
	M20 24hr = M5 24hr x Z_2	
T A2	Z_2 =	1.28
	M20 24hr =	79.20 mm

Area of medium fire risk **3300 sq.m**

Storage capacity for rain water runoff **261.36 cu.m**





Notes:

All dimensions are in mm.

Rev	Date	By	Comment
A	05/05	ac	Issued for EPA approval

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All construction methods, materials, services and installations to be in accordance with Current Building Regulations and Codes. Subcontractors are responsible for ensuring compliance with Current Building Regulations within their own trade. Dimensions shown are in mm except where indicated. Figured dimensions take precedence over scaled measurements. All dimensions to be checked on site prior to fabrication or construction. The Engineer is to be informed immediately of any discrepancies.

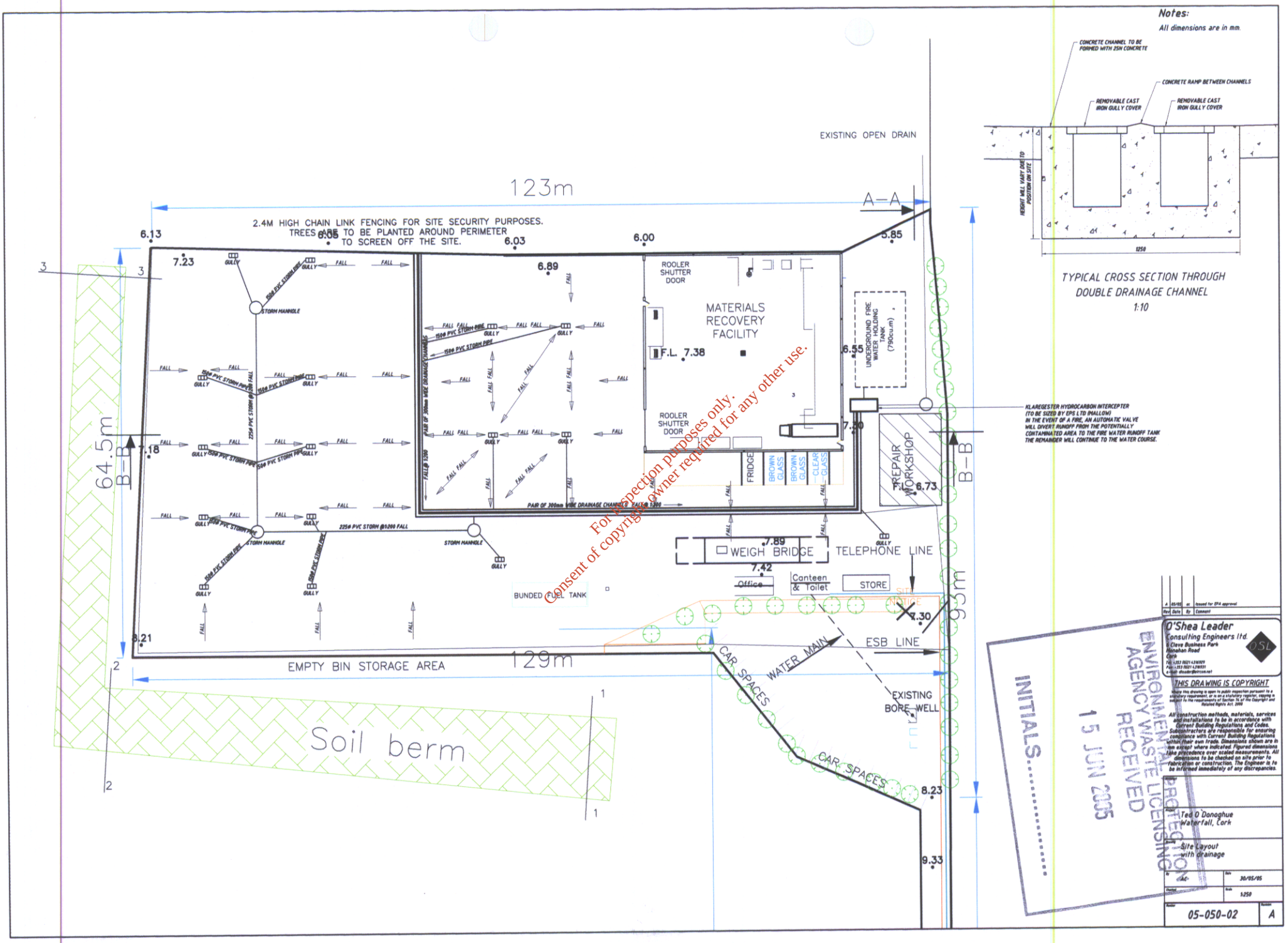
Architect

Project: Ted O'Donoghue
Waterfall, Cork

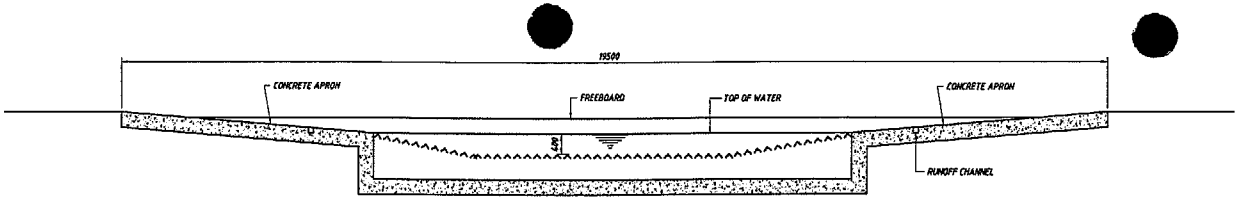
Drawing: Site Layout

By	Date
ac	15/05/05
Checked	Scale
	1:250

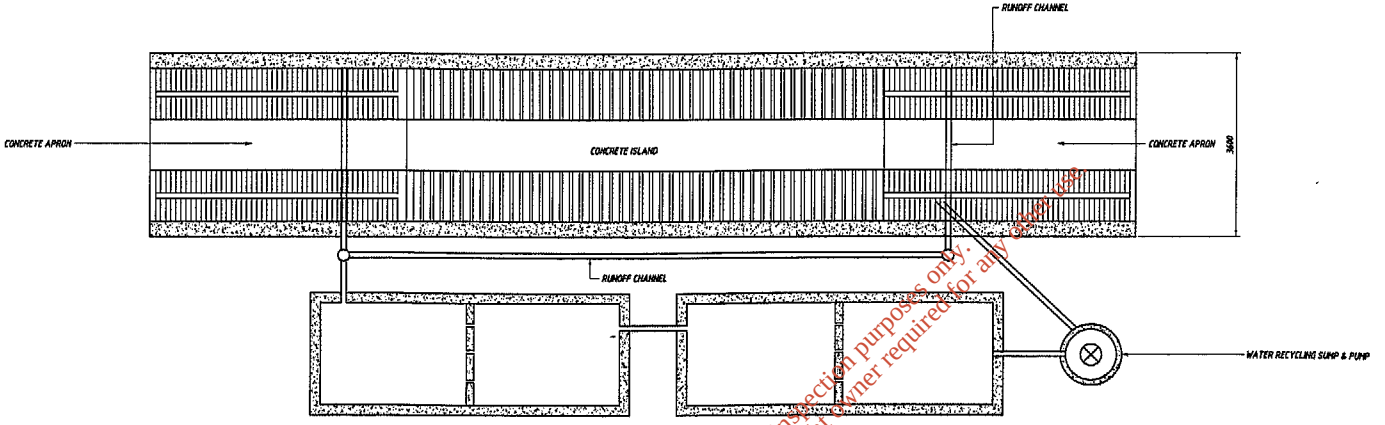
Number: 05-050-01 | Revision: A



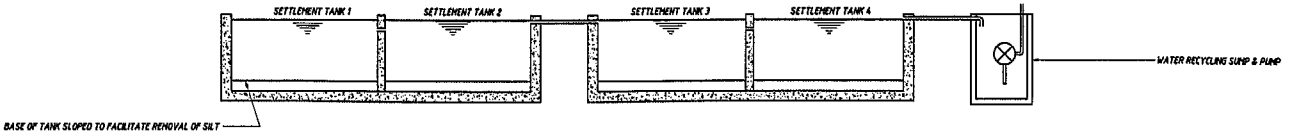
Notes:
All dimensions are in mm.



SECTION A-A



PLAN VIEW OF WHEEL WASH & SETTLEMENT TANKS



SECTION B-B

SEQUENCE OF OPERATION:
THIS WHEEL WASH IS A BATH TYPE WASH.
A TRUCK CAN ENTER FROM EITHER SIDE.
AS A TRUCK DRIVES THROUGH, EACH TIRE GETS AT LEAST 3 REVOLUTIONS IN THE BATH.
AS A VEHICLE PASSES THROUGH THE BATH, A WAVE IS FORMED IN FRONT OF THE WHEELS
WHICH WILL WASH UP ONTO THE CONCRETE APRON, AS GRAVITY TAKES THIS WATER BACK DOWN THE
APRON TO THE WASH, IT WILL DROP INTO A CHANNEL WHICH WILL DIVERT THE WATER TO THE FIRST OF
FOUR SETTLEMENT TANKS.
THE IMBALANCE CAUSED BY THE INTRODUCTION OF THE APRON WATER, WILL PUSH THE WATER ALONG
FROM TANK TO TANK, THE WATER SHOULD GET CLEANER AS IT PASSES FROM TANK TO TANK
THE WATER IN ALL FOUR TANKS WILL BE AT THE SAME LEVEL. AT THE END OF THE TANKS, THE WATER
WILL BE ALLOWED TO DROP INTO A PUMP SUMP, WHERE A RECYCLING PUMP WILL RETURN THE WATER
TO THE WHEEL WASH.

Rev	Date	By	Comment
A	03/05	ac	Issued for EPA approval

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Project	Ted O'Donoghue Waterfall, Cork
Drawing	Wheel Wash Details
By: AC	Date: 30/05/05
Checked	Date: 1:250
Number: 05-050-03	Revision: A