

For Quality and Excellence in Laboratory Analysis



Quality Systems and Laboratory Services

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Strandfield Business Park,
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Test Report

Customer: Roadstone
Brownswood
Enniscorthy
Co. Wexford

Report No.: 35831
Report Date: 06/03/2008
Received Date: 22/02/2008
Analysis Date: 22/02/2008
Order No.:
Page: 5 of 5

Account.: 89

Sample ID: 54920

Description: Water sample at Bottom Quarry 22.02.08

ID	Test	SOB	Results
<input checked="" type="checkbox"/> 54920	Suspended Solids, mg/l	STM-C-2.1.00	<2
<input checked="" type="checkbox"/> 54920	BOD, mg/l	STM-C-10.2.00	1.1
<input checked="" type="checkbox"/> 54920	COD mg/l	STM-C-11.2.04	4
<input checked="" type="checkbox"/> 54920	pH value	STM-C-3.1.00	7.94

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Comments:

Report Authorised By Peter O'Byrne Anne-Marie Kelly, Managing Director
Brian Healy Microbiology Lab. Manager / Peter O'Byrne Chemistry Lab. Manager

Results relate only to items tested. Report must not be reproduced except in full without prior consultation.

Indicates Accredited Test. Opinions and Comments are not included in the scope of Accreditation



Directors: A. Byrne, A.M. Kelly, P. Kelly.
Registered in Ireland. No. 230617. VAT No. IE 0230617 V.

TEST REPORT

Analysing
Testing
Consulting
Calibrating



**Client: Roadstone
Brownswood Quarry
Brownswood
Co. Wexford**

**BHP Ref. No.: 83854.2
Order No.:
Date Received: 03/11/08
Date Completed: 14/11/08
Test Specification: Nil
Item :See below**

**BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpcem2@bhp.ie**

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Suspended Solids	Monitoring at Brownswood Sample BWQ	mg/l	6.7	APHA - 2540 -D
pH		-	7.69	APHA-4500-H ⁺ -B
Ammonia (as NH ₃ -N)		mg/l	<0.01	APHA -4500- NH ₃ -D
B.O.D		mg/l	<1	APHA - 5210 - B
Nitrate (as NO ₃)		mg/l	17.57	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B
Oils, Fats & Grease		mg/l	1	APHA 5520 - B
Total Phosphorus (as P)		mg/l	0.11	APHA - 4500 - P
OrthoPhosphate (as P)		mg/l	0.03	APHA - 4500 - P-E

Additional information :

All methods are from Standard Methods for the Examination of Water and Wastewater 20th Edition.

For and on behalf of BHP laboratories :

**Pat O'Sullivan
Issue Date : 14/11/2008**

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



**Client: Roadstone
Brownswood Quarry
Brownswood
Co. Wexford**

**BHP Ref. No.: 83854.2
Order No.:
Date Received: 03/11/08
Date Completed: 14/11/08
Test Specification: Nil
Item :See below**

**BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpce2@bhp.ie**

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Coliforms	Monitoring at Brownswood Sample BWQ	cfu/100mls	233	APHA - 9223 - B
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics	mg/l	<0.001	GC-FID	
C.O.D		mg/l	6	APHA - 5220 - D

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For and on behalf of BHP laboratories :

**Pat O'Sullivan
Issue Date : 14/11/2008**

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TEST REPORTAnalysing
Testing
Consulting
CalibratingClient: **Roadstone
Brownswood Quarry
Brownswood
Co. Wexford**BHP Ref. No.: 84296.2
Order No.:
Date Received: 01/12/08
Date Completed: 18/12/08
Test Specification: Nil
Item :See belowBHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpцем2@bhp.ie

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Suspended Solids	Monitoring at Brownswood Sample BWQ	mg/l	2.5	APHA - 2540 -D
pH		-	8.22	APHA-4500-H ⁺ -B
Ammonia (as NH ₃ -N)		mg/l	0.01	APHA -4500- NH ₃ -D
B.O.D		mg/l	<1	APHA - 5210 - B
Nitrate (as NO ₃)		mg/l	15.61	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B
Oils, Fats & Grease		mg/l	<1	APHA 5520 - B
Total Phosphorus (as P)		mg/l	0.18	APHA - 4500 - P
OrthoPhosphate (as P)		mg/l	0.11	APHA - 4500 - P-E

Additional information :

All methods are from Standard Methods for the Examination of Water and Wastewater 20th Edition.

For and on behalf of BHP laboratories :Pat O'Sullivan
Issue Date : 18/12/2008

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



Client: **Roadstone
Brownswood Quarry
Brownswood
Co. Wexford**

BHP Ref. No.: 84296.2
Order No.:
Date Received: 01/12/08
Date Completed: 18/12/08
Test Specification: Nil
Item :See below

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpцем2@bhp.ie

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Coliforms	Monitoring at Brownswood Sample BWQ	cfu/100mls	None Found	APHA - 9223 - B
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics	mg/l	<0.001	GC-FID	
C.O.D		mg/l	1	APHA - 5220 - D

Additional information :

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For and on behalf of BHP laboratories :

Pat O'Sullivan
Issue Date : 18/12/2008

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



Client: Roadstone
Brownwood Quarry
Brownwood
Co. Wexford

BHP Ref. No.: 84661.1
Order No.:
Date Received: 08/01/09
Date Completed: 15/01/09
Test Specification: Nil
Item : See below

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpcem2@bhp.ie

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Suspended Solids	Monitoring at Brownwood Sample Q	mg/l	<1	APHA - 2540 -D
pH		-	8.22	APHA-4500-H ⁺ -B
Ammonia (as NH ₃ -N)		mg/l	0.02	APHA -4500- NH ₃ -D
B.O.D		mg/l	<1	APHA - 5210 - B
Nitrate (as NO ₃)		mg/l	19.54	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B
Oils, Fats & Grease		mg/l	1	APHA 5520 - B
Total Phosphorus (as P)		mg/l	0.01	APHA - 4500 - P
OrthoPhosphate (as P)		mg/l	0.01	APHA - 4500 - P-E

Additional information :

All methods are from Standard Methods for the Examination of Water and Wastewater 20th Edition.

For and on behalf of BHP laboratories :

Pat O'Sullivan
Issue Date : 15/01/2009

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



**Client: Roadstone
Brownswood Quarry
Brownswood
Co. Wexford**

**BHP Ref. No.: 84661.1
Order No.:
Date Received: 08/01/09
Date Completed: 15/01/09
Test Specification: Nil
Item :See below**

BHP
New Road
Thomondgate
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E Mail bhpccm2@bhp.ie

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Coliforms	Monitoring at Brownswood Sample Q	cfu/100mls	17	APHA - 9223 - B
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics	mg/l	<0.001	GC-FID	
C.O.D		mg/l	<1	APHA - 5220 - D

Additional information :

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For and on behalf of BHP laboratories :

**Pat O'Sullivan
Issue Date : 15/01/2009**

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



**Client: Roadstone
Brownswood Quarry
Brownswood
Co. Wexford**

**BHP Ref. No.: 85027.2
Order No.:
Date Received: 02/02/09
Date Completed: 16/02/09
Test Specification: Nil
Item :See below**

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpce2@bhp.ie

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Suspended Solids	Monitoring at Brownswood Sample BW	mg/l	3.6	APHA - 2540 -D
pH		-	8.17	APHA-4500-H ⁺ -B
Ammonia (as NH ₃ -N)		mg/l	0.09	APHA -4500- NH ₃ -D
B.O.D		mg/l	3	APHA - 5210 - B
Nitrate (as NO ₃)		mg/l	15.3	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B
Oils, Fats & Grease		mg/l	1	APHA 5520 - B
Total Phosphorus (as P)		mg/l	0.03	APHA - 4500 - P
OrthoPhosphate (as P)		mg/l	0.03	APHA - 4500 - P-E

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**Pat O'Sullivan
Issue Date : 16/02/2009**

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



**Client: Roadstone
Brownwood Quarry
Brownwood
Co. Wexford**

**BHP Ref. No.: 85027.2
Order No.:
Date Received: 02/02/09
Date Completed: 16/02/09
Test Specification: Nil
Item :See below**

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New Road
Thomondgate
Limerick
Ireland
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Fax + 353 61 455447
E Mail bhpcem2@bhp.ie

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Coliforms	Monitoring at Brownwood Sample BW	cfu/100mls	308	APHA - 9223 - B
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics	mg/l	<0.001	GC-FID	
C.O.D		mg/l	8	APHA - 5220 - D

Additional information :

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For and on behalf of BHP laboratories :

**Pat O'Sullivan
Issue Date : 16/02/2009**

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TEST REPORTAnalysing
Testing
Consulting
CalibratingClient: **Roadstone
Brownswood Quarry
Brownswood
Co. Wexford**BHP Ref. No.: 91353.1
Order No.:
Date Received: 23/03/10
Date Completed: 04/05/10
Test Specification: Nil
Item :See belowBHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpцем2@bhp.ie

FTAO: Allen Geraghty

Test	Client Reference	Units	Results	Standard Reference
Total Coliforms	Monitoring at Brownswood Sample Q	cfu/100mls	1	APHA - 9223 - B
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics	mg/l	<0.001	GC-FID	
C.O.D		mg/l	3	APHA - 5220 - D

Additional information :

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For and on behalf of BHP laboratories :Pat O'Sullivan
Issue Date : 06/05/2010

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



Client: Ecofact Environmental Consultants
Unit 46
Tait Business Centre
Dominic Street
Limerick

FTAO: William O'Connor

BHP Ref. No.: 97971.1
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

Issue 2

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpem2@bhp.ie

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 1a			
pH		-	6.97	APHA-4500-H ⁺ -B
Total Ammonia (as NH ₃ -N)		mg/l	0.14	APHA -4500- NH ₃ -D
BOD		mg/l	3	APHA - 5210 - B
Total Suspended Solids		mg/l	15	APHA - 2540 -D
OrthoPhosphate (as P)		mg/l	0.11	APHA - 4500 - P-E
Total Phosphate (as P)		mg/l	0.1	APHA - 4500 - P
Nitrate (as NO ₃)		mg/l	21.7	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B

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For and on behalf of BHP laboratories :

Pat O'Sullivan
Issue Date : 29/04/2011

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



Client: Ecofact Environmental Consultants
Unit 46
Tait Business Centre
Dominic Street
Limerick

FTAO: William O'Connor

BHP Ref. No.: 97971.1
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

Issue 2

BHP
New Road
Thomondgate
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Tel +353 61 455399
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E Mail bhpцем2@bhp.ie

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 1a			
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics		mg/l	<0.001	GC-FID

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Issue Date : 29/04/2011

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Client: Ecofact Environmental Consultants
Unit 46
Tait Business Centre
Dominic Street
Limerick

BHP Ref. No.: 97971.1
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

FTAO: William O'Connor

Issue 2

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New Road
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Test	Client Reference	Units	Results	Standard Reference
	Brownswood 1a			
Arsenic	Consent of copyright owner required for any other use.	ug/l	<1	APHA - 3120 - B
Copper		ug/l	14	APHA - 3120 - B
Chromium		ug/l	<1	APHA - 3120 - B
Lead		ug/l	<1	APHA - 3120 - B
Cadmium		ug/l	<1	APHA - 3120 - B
Nickel		ug/l	1	APHA - 3120 - B
Mercury		ug/l	<0.2	APHA - 3120 - B
Zinc		ug/l	<1	APHA - 3120 - B
Tin		ug/l	<1	APHA - 3120 - B
Selenium		ug/l	<1	APHA - 3120 - B

Additional information :

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Client: Ecofact Environmental Consultants
Unit 46
Tait Business Centre
Dominic Street
Limerick

BHP Ref. No.: 97971.2
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpem2@bhp.ie

FTAO: William O'Connor

Issue 2

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 1b			
pH		-	6.92	APHA-4500-H ⁺ -B
Total Ammonia (as NH ₃ -N)		mg/l	0.12	APHA -4500- NH ₃ -D
BOD		mg/l	2	APHA - 5210 - B
Total Suspended Solids		mg/l	1	APHA - 2540 -D
OrthoPhosphate (as P)		mg/l	0.12	APHA - 4500 - P-E
Total Phosphate (as P)		mg/l	0.08	APHA - 4500 - P
Nitrate (as NO ₃)		mg/l	32.9	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B

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Issue Date : 29/04/2011

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Calibrating



Client: Ecofact Environmental Consultants
Unit 46
Tait Business Centre
Dominic Street
Limerick

FTAO: William O'Connor

BHP Ref. No.: 97971.2
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpem2@bhp.ie

Issue 2

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 1b			
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics		mg/l	<0.001	GC-FID

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Tait Business Centre
Dominic Street
Limerick

FTAO: William O'Connor

BHP Ref. No.: 97971.2
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

Issue 2

BHP
New Road
Thomondgate
Limerick
Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpcem2@bhp.ie

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 1b			
Arsenic	Consent of copyright owner required for any other use.	ug/l	<1	APHA - 3120 - B
Copper		ug/l	19	APHA - 3120 - B
Chromium		ug/l	6	APHA - 3120 - B
Lead		ug/l	5	APHA - 3120 - B
Cadmium		ug/l	<1	APHA - 3120 - B
Nickel		ug/l	<1	APHA - 3120 - B
Mercury		ug/l	<0.2	APHA - 3120 - B
Zinc		ug/l	<1	APHA - 3120 - B
Tin		ug/l	<1	APHA - 3120 - B
Selenium		ug/l	<1	APHA - 3120 - B

Additional information : All methods are from Standard Methods for the Examination of Water and Wastewater 20th Edition.

For and on behalf of BHP laboratories :

Pat O'Sullivan
Issue Date : 29/04/2011

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TEST REPORT

Analysing
Testing
Consulting
Calibrating



Client: Ecofact Environmental Consultants
Unit 46
Tait Business Centre
Dominic Street
Limerick

FTAO: William O'Connor

BHP Ref. No.: 97971.3
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

Issue 2

BHP
New Road
Thomondgate
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Ireland
Tel +353 61 455399
Fax + 353 61 455447
E Mail bhpem2@bhp.ie

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 2a			
pH		-	7.11	APHA-4500-H ⁺ -B
Total Ammonia (as NH ₃ -N)		mg/l	0.3	APHA -4500- NH ₃ -D
BOD		mg/l	2	APHA - 5210 - B
Total Suspended Solids		mg/l	11	APHA - 2540 -D
OrthoPhosphate (as P)		mg/l	0.14	APHA - 4500 - P-E
Total Phosphate (as P)		mg/l	0.12	APHA - 4500 - P
Nitrate (as NO ₃)		mg/l	24.1	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B

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Issue 2

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 2a			
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics		mg/l	<0.001	GC-FID

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E Mail bhpcem2@bhp.ie

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 2a			
Arsenic	Consent of copyright owner required for any other use. For inspection purposes only.	ug/l	<1	APHA - 3120 - B
Copper		ug/l	2	APHA - 3120 - B
Chromium		ug/l	<1	APHA - 3120 - B
Lead		ug/l	1	APHA - 3120 - B
Cadmium		ug/l	<1	APHA - 3120 - B
Nickel		ug/l	2	APHA - 3120 - B
Mercury		ug/l	<0.2	APHA - 3120 - B
Zinc		ug/l	<1	APHA - 3120 - B
Tin		ug/l	<1	APHA - 3120 - B
Selenium		ug/l	<1	APHA - 3120 - B

Additional information :

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Client: Ecofact Environmental Consultants
Unit 46
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Limerick

BHP Ref. No.: 97971.4
Order No.:
Date Received: 20/04/11
Date Completed: 28/04/11
Test Specification: Nil
Item : See below

FTAO: William O'Connor

Issue 2

BHP
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E Mail bhpem2@bhp.ie

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 2b			
pH	Consent of copyright owner required for any other use.	-	7.04	APHA-4500-H ⁺ -B
Total Ammonia (as NH ₃ -N)		mg/l	0.18	APHA -4500- NH ₃ -D
BOD		mg/l	2	APHA - 5210 - B
Total Suspended Solids		mg/l	7	APHA - 2540 -D
OrthoPhosphate (as P)		mg/l	0.09	APHA - 4500 - P-E
Total Phosphate (as P)		mg/l	0.07	APHA - 4500 - P
Nitrate (as NO ₃)		mg/l	26.9	APHA - 4110 - B
Nitrite (as NO ₂)		mg/l	<0.05	APHA - 4110 - B

Additional information :

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E Mail bhpcem2@bhp.ie

Issue 2

Test	Client Reference	Units	Results	Standard Reference
	Brownswood 2b			
Total Petroleum Hydrocarbons				
>C ₆ -C ₄₀		mg/l	<0.001	GC-FID
>C ₆ -C ₈		mg/l	<0.001	GC-FID
>C ₈ -C ₁₀		mg/l	<0.001	GC-FID
>C ₁₀ -C ₁₂		mg/l	<0.001	GC-FID
>C ₁₂ -C ₁₆		mg/l	<0.001	GC-FID
>C ₁₆ -C ₂₁		mg/l	<0.001	GC-FID
>C ₂₁ -C ₄₀		mg/l	<0.001	GC-FID
Petroleum Range Organics		mg/l	<0.001	GC-FID
Diesel Range Organics		mg/l	<0.001	GC-FID

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Test	Client Reference	Units	Results	Standard Reference
	Brownswood 2b			
Arsenic	Consent of copyright owner required for any other use.	ug/l	<1	APHA - 3120 - B
Copper		ug/l	15	APHA - 3120 - B
Chromium		ug/l	1	APHA - 3120 - B
Lead		ug/l	<1	APHA - 3120 - B
Cadmium		ug/l	<1	APHA - 3120 - B
Nickel		ug/l	<1	APHA - 3120 - B
Mercury		ug/l	<0.2	APHA - 3120 - B
Zinc		ug/l	<1	APHA - 3120 - B
Tin		ug/l	<1	APHA - 3120 - B
Selenium		ug/l	<1	APHA - 3120 - B

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