

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 November 2018
Test Report Ref: TR 630491

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:

No
S76201
4CH2 - 1.5
15/10/2018
18/10/2018
18/11/2018
Former Llanwern
Steelworks
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present? **No**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **3.6.4.1**

Soil Description:

RESULTS:

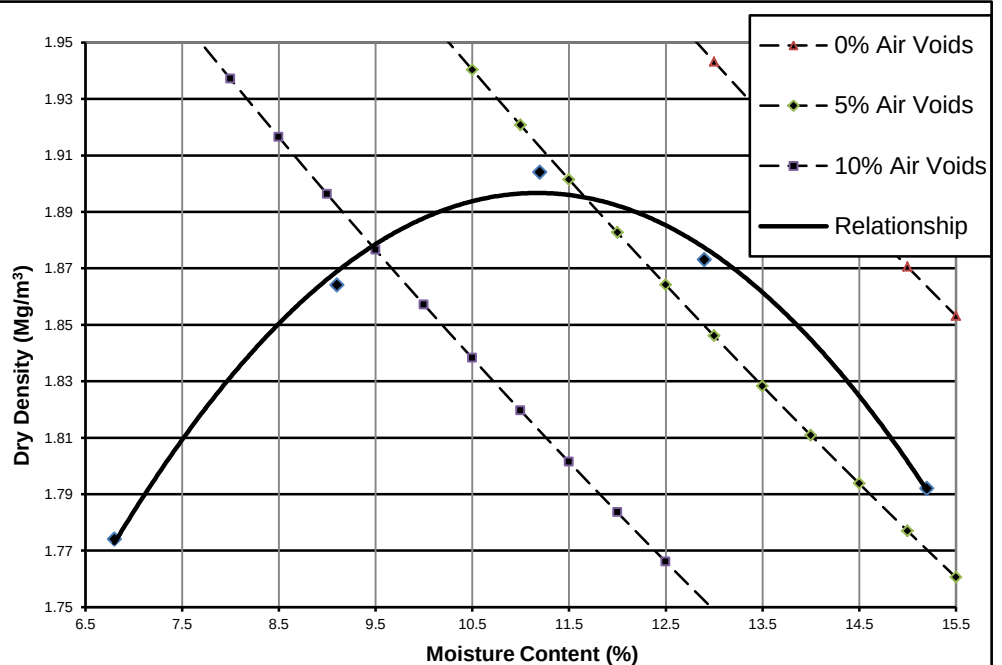
Particle Density: 2.6Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 7 %

Retained on
20mm Sieve: 16 %

Moisture Content (%)	Dry Density Mg/m ³
6.8	1.77
9.1	1.86
11.2	1.90
12.9	1.87
15.2	1.79

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	1.94



Comments:

None

Report checked and approved by:

N. Hughes

Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 November 2018
Test Report Ref: TR 630488

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil
sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76201	Method of Sampling:	Unknown
Client Ref. :	4CH4 - 1.5	Sampled By:	Client
Date and Time of Sampling:	15/10/2018	Unrepresentative lumps present?	
Date of Receipt at Lab:	18/10/2018	Sample Preparation Procedure:	3.2.5.2
Date of Start of Test:	18/11/2018	Sample Preparation Method:	Single
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

Particle Density: 3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	95 %
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Retained on 20mm Sieve:	93 %
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Moisture Content (%)	Dry Density Mg/m ³
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7.3	1.98
-----	------

9.4	2.12
-----	------

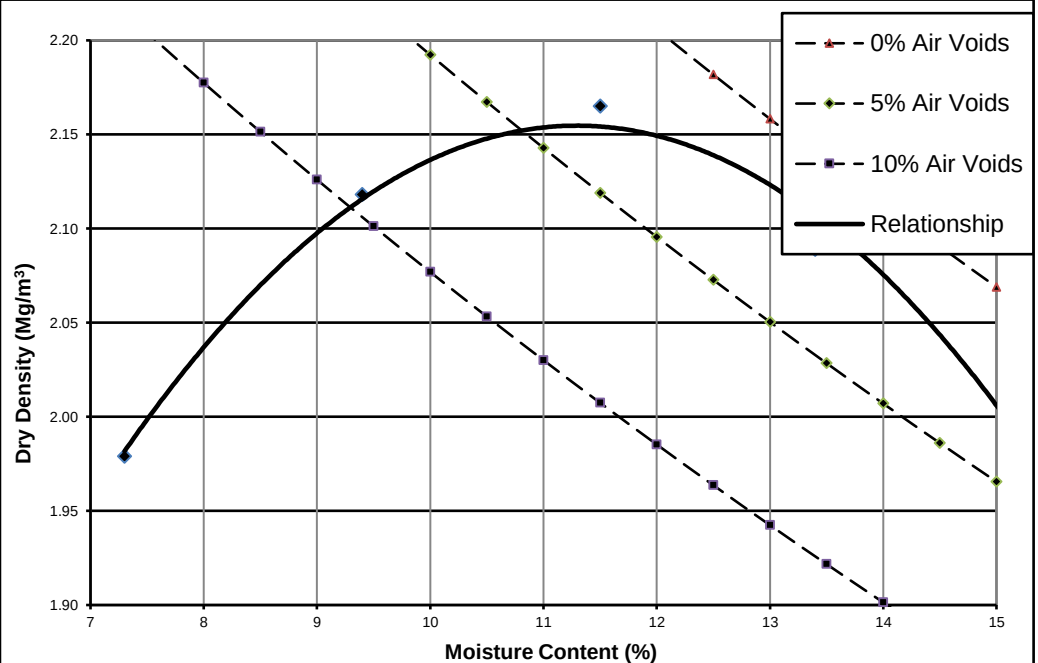
11.5	2.17
------	------

13.4	2.09
------	------

15.2	2.00
------	------

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
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11.0	2.16
------	------



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 November 2018
Test Report Ref: TR 630487

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S76201
4CH5 - 1.0

15/10/2018
18/10/2018
19/11/2018

Former Llanwern Steelworks
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.3Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 90 %

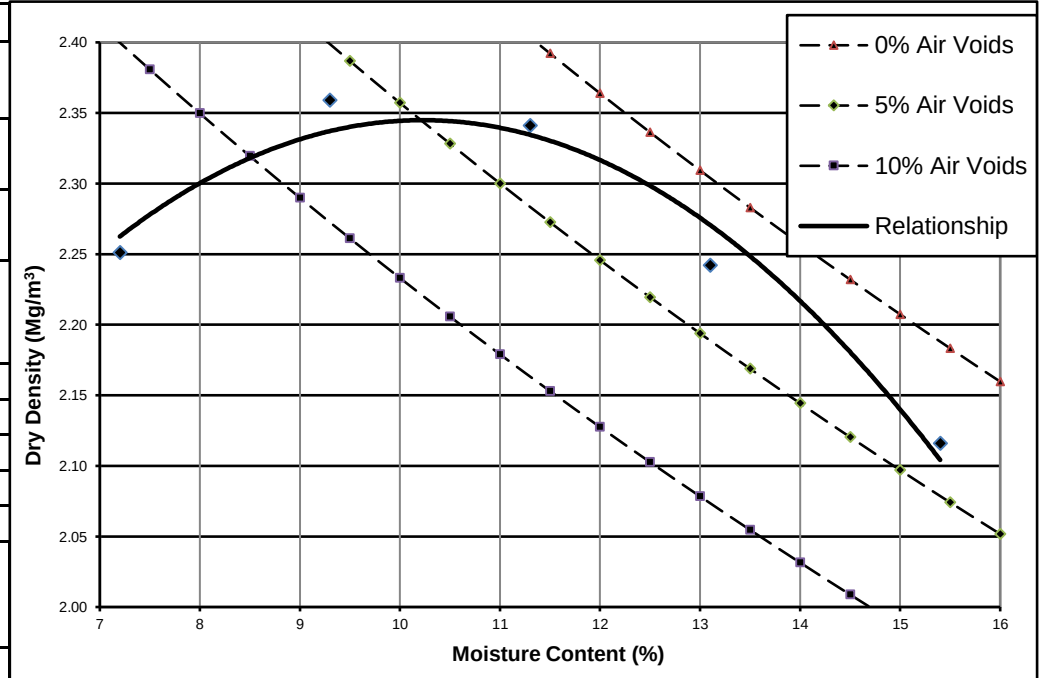
Retained on
20mm Sieve: 85 %

Moisture Content (%)	Dry Density Mg/m ³
7.2	2.25
9.3	2.36
11.3	2.34
13.1	2.24
15.4	2.12

Optimum Moisture Content (%)

Maximum Dry Density Mg/m³

10.0 2.35



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 16 November 2018
Test Report Ref: TR 630490

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:

No
S76201
4C11 - 1.0
15/10/2018
18/10/2018
15/11/2018
Former Llanwern
Steelworks
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

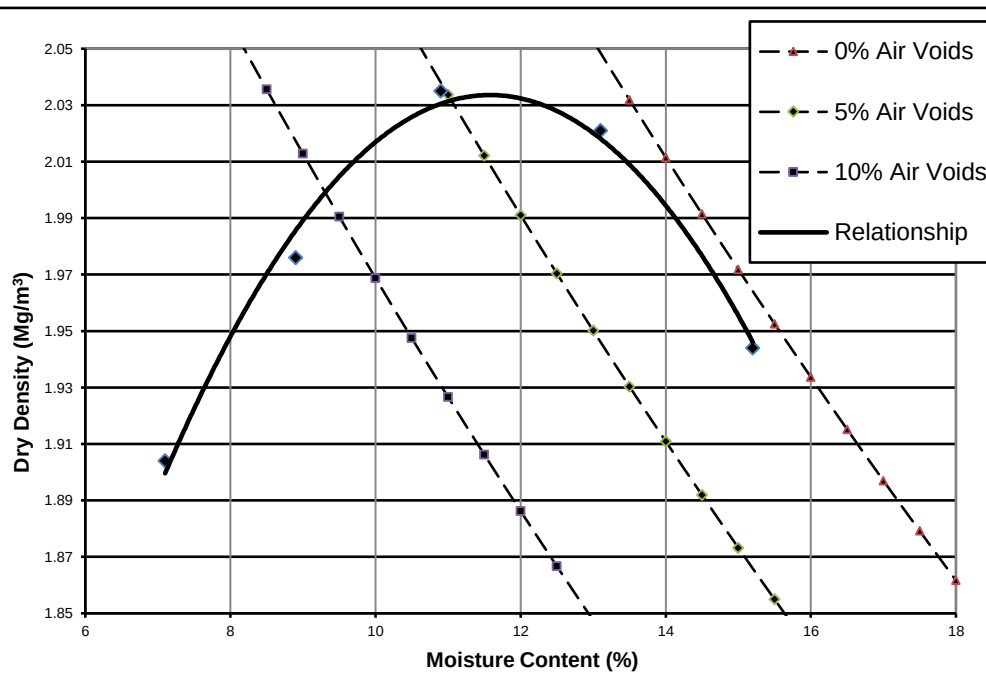
Unrepresentative lumps present? **No**
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

Soil Description:

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	14 %
Retained on 20mm Sieve:	31 %
Moisture Content (%)	Dry Density Mg/m ³
7.1	1.90
8.9	1.98
10.9	2.04
13.1	2.02
15.2	1.94
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.04



Comments:

None

Report checked and approved by:

N. Hughes

Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 November 2018
Test Report Ref: TR 630489

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76201	Method of Sampling:	Unknown
Client Ref. :	4CI2 - 1.0	Sampled By:	Client
Date and Time of Sampling:	15/10/2018	Unrepresentative lumps present?	
Date of Receipt at Lab:	18/10/2018	Sample Preparation Procedure:	
Date of Start of Test:	21/11/2018	Sample Preparation Method:	
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

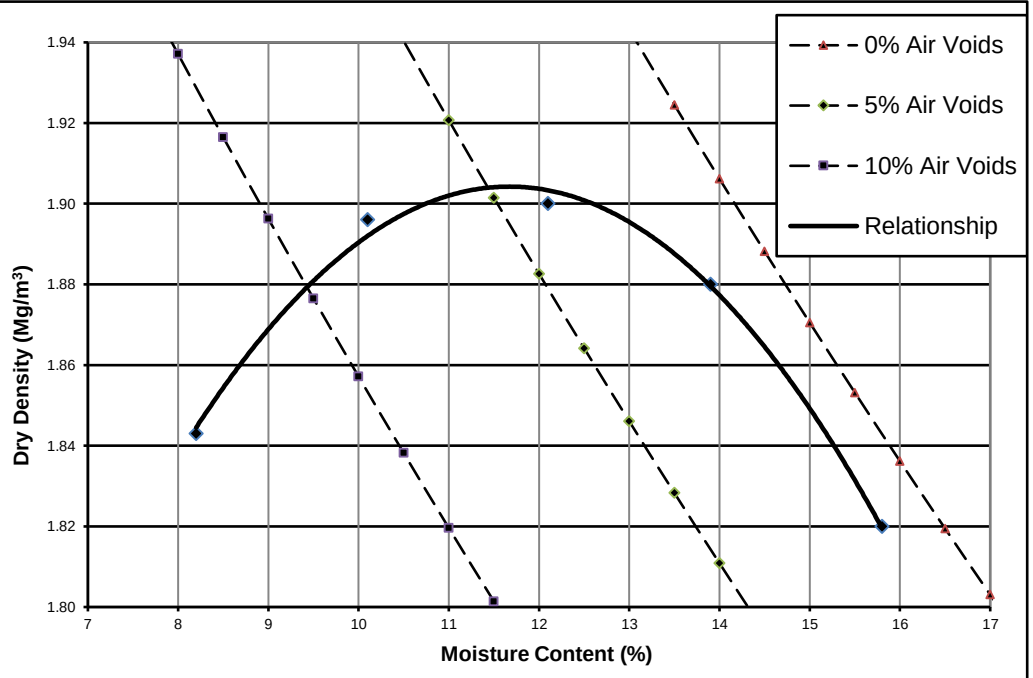
Particle Density: 2.6Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	77 %
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Retained on 20mm Sieve:	64 %
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Moisture Content (%)	Dry Density Mg/m ³
8.2	1.84
10.1	1.90
12.1	1.90
13.9	1.88
15.8	1.82

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	1.90



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 November 2018
Test Report Ref: TR 630485

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil
sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76201	Method of Sampling:	Unknown
Client Ref. :	4CI3 - 0.8	Sampled By:	Client
Date and Time of Sampling:	15/10/2018	Unrepresentative lumps present?	
Date of Receipt at Lab:	18/10/2018	Sample Preparation Procedure:	3.2.5.2
Date of Start of Test:	21/11/2018	Sample Preparation Method:	Single
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

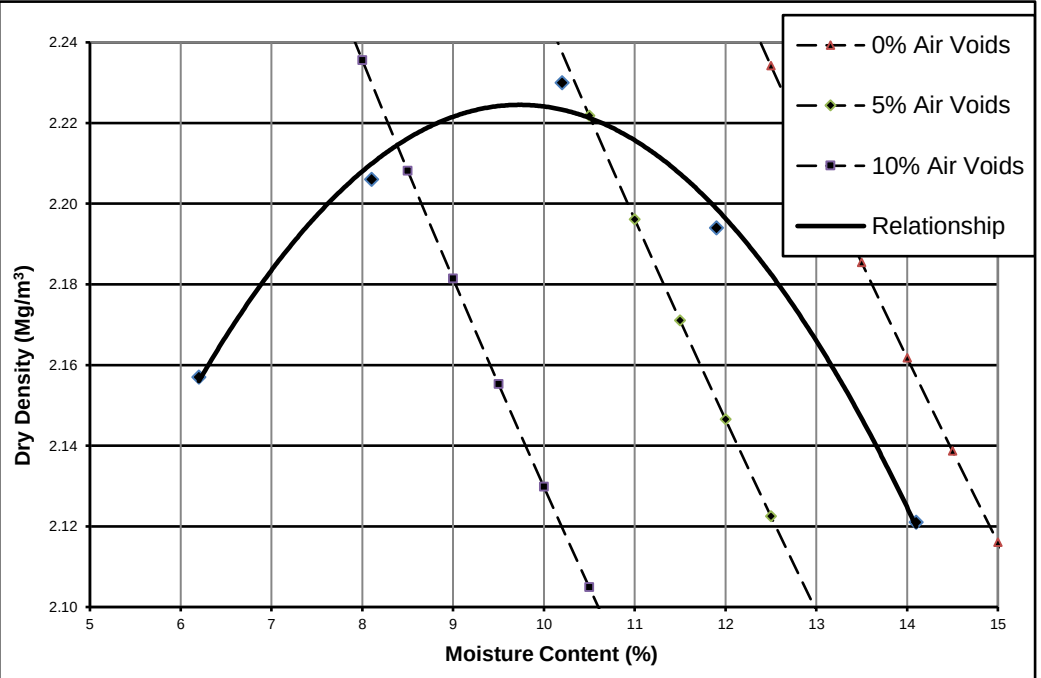
Particle Density: 3.1Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	96 %
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Retained on 20mm Sieve:	82 %
----------------------------	------

Moisture Content (%)	Dry Density Mg/m ³
6.2	2.16
8.1	2.21
10.2	2.23
11.9	2.19
14.1	2.12

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.23



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 November 2018
Test Report Ref: TR 630486

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil
sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76201	Method of Sampling:	Unknown
Client Ref. :	4CI4 - 0.5	Sampled By:	Client
Date and Time of Sampling:	15/10/2018	Unrepresentative lumps present?	
Date of Receipt at Lab:	18/10/2018	Sample Preparation Procedure:	Zone X
Date of Start of Test:	21/11/2018	Sample Preparation Method:	Single
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	92 %
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Retained on 20mm Sieve:	55 %
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Moisture Content (%)	Dry Density Mg/m ³
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6.1	2.02
-----	------

8.1	2.07
-----	------

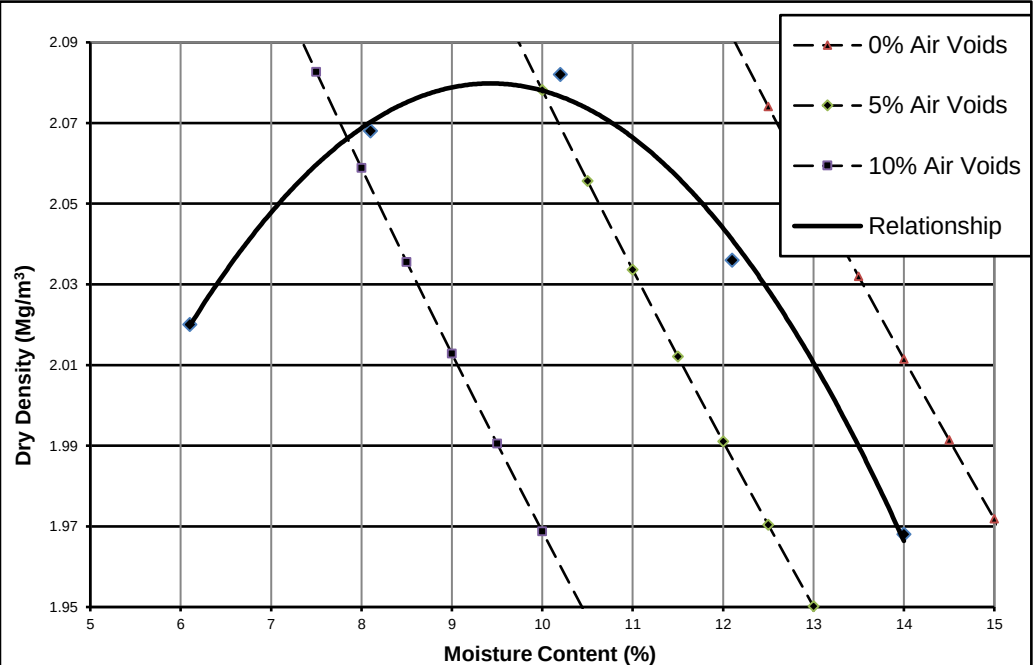
10.2	2.08
------	------

12.1	2.04
------	------

14.0	1.97
------	------

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
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10.0	2.08
------	------



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 06 December 2018
Test Report Ref: TR 632159

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S76311
4 C I 5 - 0.75m
Unknown
23/10/2018
05/12/2018
Former Llanwern Steelwor
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Unrepresentative lumps present?
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

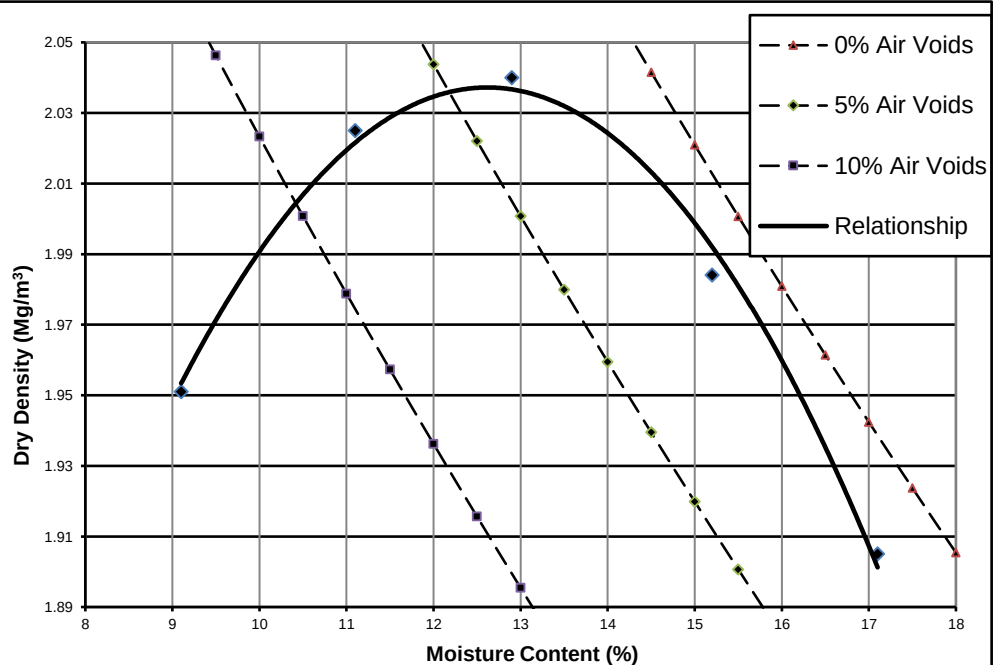
Particle Density: 2.9Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 13 %

Retained on
20mm Sieve: 24 %

Moisture Content (%)	Dry Density Mg/m ³
9.1	1.95
11.1	2.03
12.9	2.04
15.2	1.98
17.1	1.91

Optimum Moisture Content (%)
Maximum Dry Density Mg/m³



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 December 2018
Test Report Ref: TR 632155

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil
sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. :	4 C I 7 - 0.50m	Sampled By:	Client
Date and Time of Sampling:	Unknown	Unrepresentative lumps present?	
Date of Receipt at Lab:	23/10/2018	Sample Preparation Procedure:	Zone X
Date of Start of Test:	20/12/2018	Sample Preparation Method:	Single
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

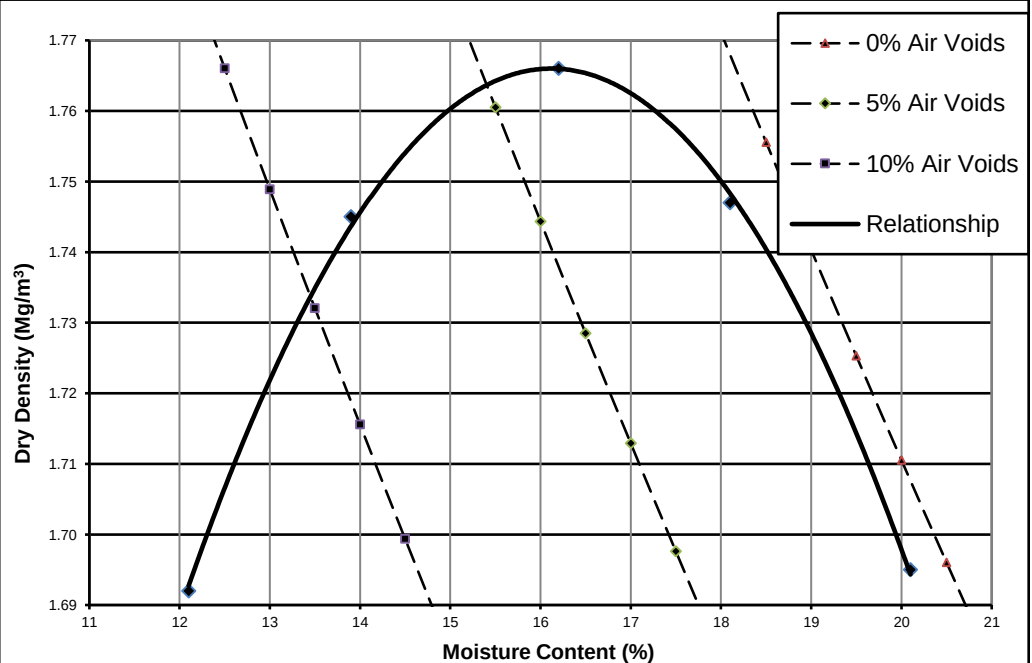
Particle Density: 2.6Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	52 %
------------------------------	------

Retained on 20mm Sieve:	37 %
----------------------------	------

Moisture Content (%)	Dry Density Mg/m ³
12.1	1.69
13.9	1.75
16.2	1.77
18.1	1.75
20.1	1.70

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
16.0	1.77



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 January 2019
Test Report Ref: TR 632162

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. :	4 C J 1 - 1.50m	Sampled By:	Client
Date and Time of Sampling:	Unknown	Unrepresentative lumps present?	
Date of Receipt at Lab:	23/10/2018	Sample Preparation Procedure:	Zone X
Date of Start of Test:	08/01/2019	Sample Preparation Method:	Single
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

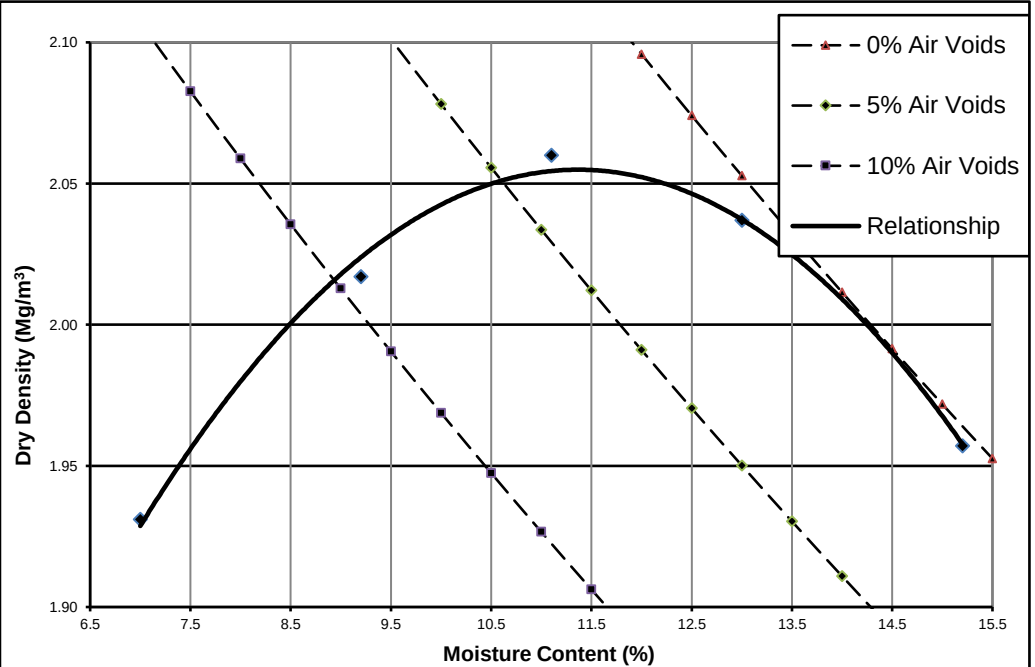
Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	17 %
---------------------------	------

Retained on 20mm Sieve:	27 %
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Moisture Content (%)	Dry Density Mg/m ³
7.0	1.93
9.2	2.02
11.1	2.06
13.0	2.04
15.2	1.96

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.06



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 06 December 2018
Test Report Ref: TR 632158

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S76311
4 C J 2 - 1.00m
Unknown
23/10/2018
04/12/2018
Former Llanwern Steelwor
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

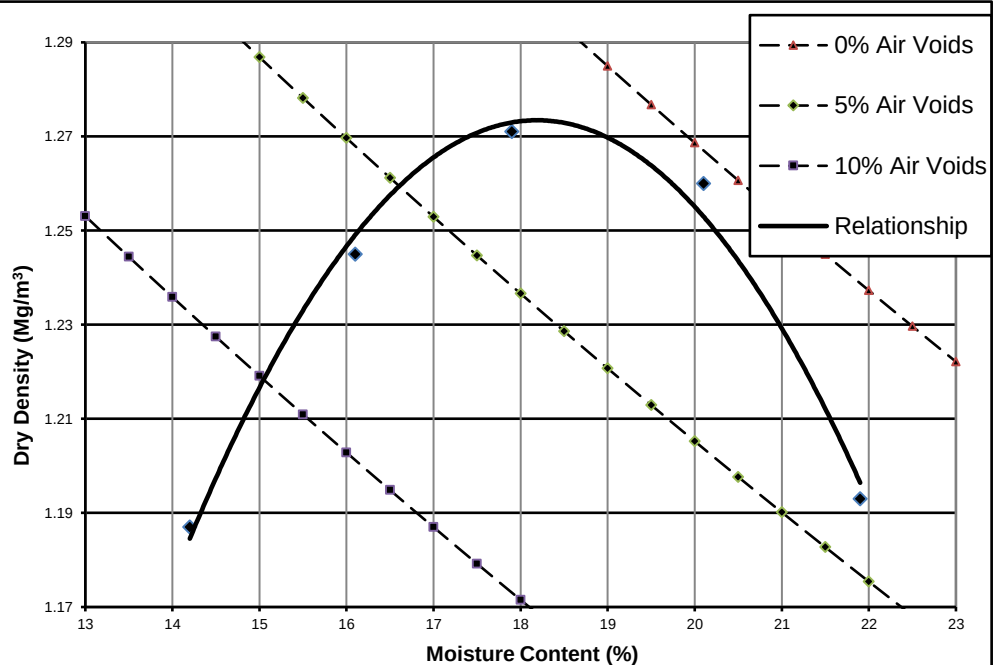
Particle Density: 1.7Mg/m³
(Assumed)

Retained on 37.5mm Sieve: 12 %

Retained on 20mm Sieve: 29 %

Moisture Content (%)	Dry Density Mg/m ³
14.2	1.19
16.1	1.25
17.9	1.27
20.1	1.26
21.9	1.19

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
18.0	1.27



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 January 2019
Test Report Ref: TR 632113

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. :	4 C J 3 - 1.00m	Sampled By:	Client
Date and Time of Sampling:	Unknown	Unrepresentative lumps present?	
Date of Receipt at Lab:	23/10/2018	Sample Preparation Procedure:	Zone X
Date of Start of Test:	16/01/2019	Sample Preparation Method:	Single
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

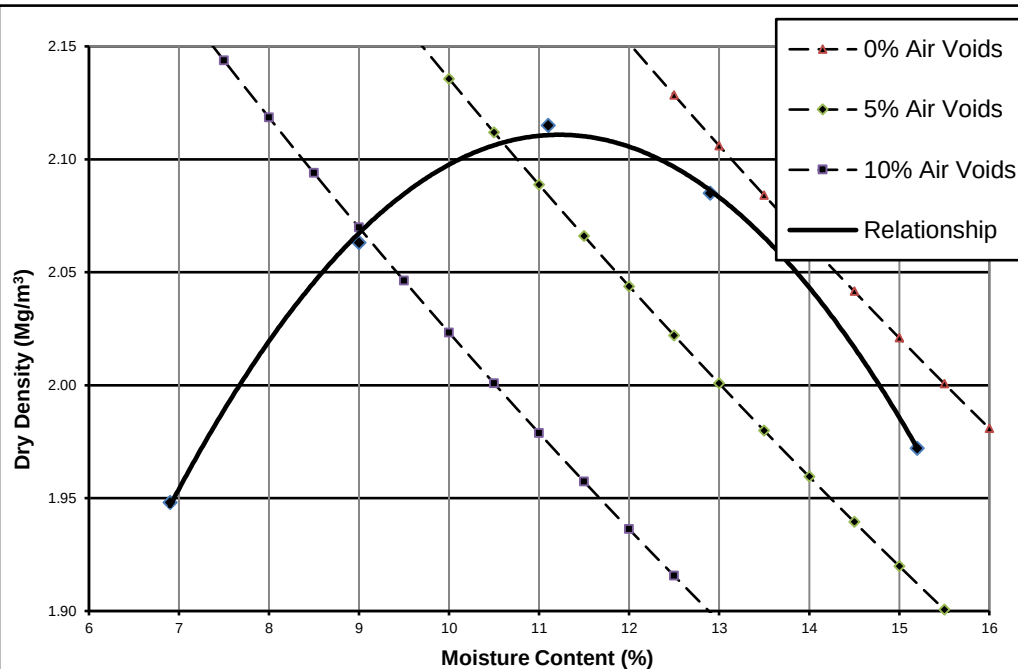
Particle Density: 2.9Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	28 %
---------------------------	------

Retained on 20mm Sieve:	40 %
-------------------------	------

Moisture Content (%)	Dry Density Mg/m ³
6.9	1.95
9.0	2.06
11.1	2.12
12.9	2.09
15.2	1.97

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.12



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 December 2018
Test Report Ref: TR 632154

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil
sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. :	4 C K 2 -	Sampled By:	Client
Date and Time of Sampling:	Unknown	Unrepresentative lumps present?	
Date of Receipt at Lab:	23/10/2018	Sample Preparation Procedure:	Zone X
Date of Start of Test:	20/12/2018	Sample Preparation Method:	Single
Sampling Location:	Former Llanwern Steelworks		
Soil Description:	Granular		

RESULTS:

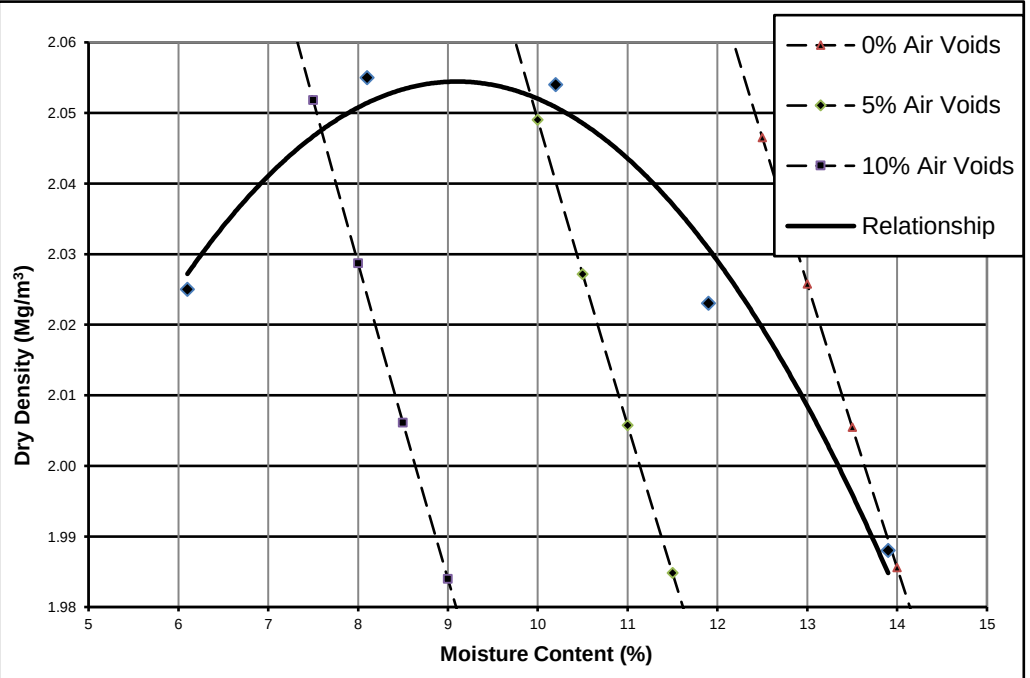
Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	76 %
------------------------------	------

Retained on 20mm Sieve:	64 %
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Moisture Content (%)	Dry Density Mg/m ³
6.1	2.03
8.1	2.06
10.2	2.05
11.9	2.02
13.9	1.99

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.0	2.06



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 February 2019
Test Report Ref: TR 640354

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E A7 - 1.5m
01/11/2018
28/11/2018
14/02/2019
4E A7 - 1.5m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.2Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 5 %

Retained on
20mm Sieve: 24 %

Moisture
Content (%) Dry Density Mg/m³

8.1 2.12

10.2 2.21

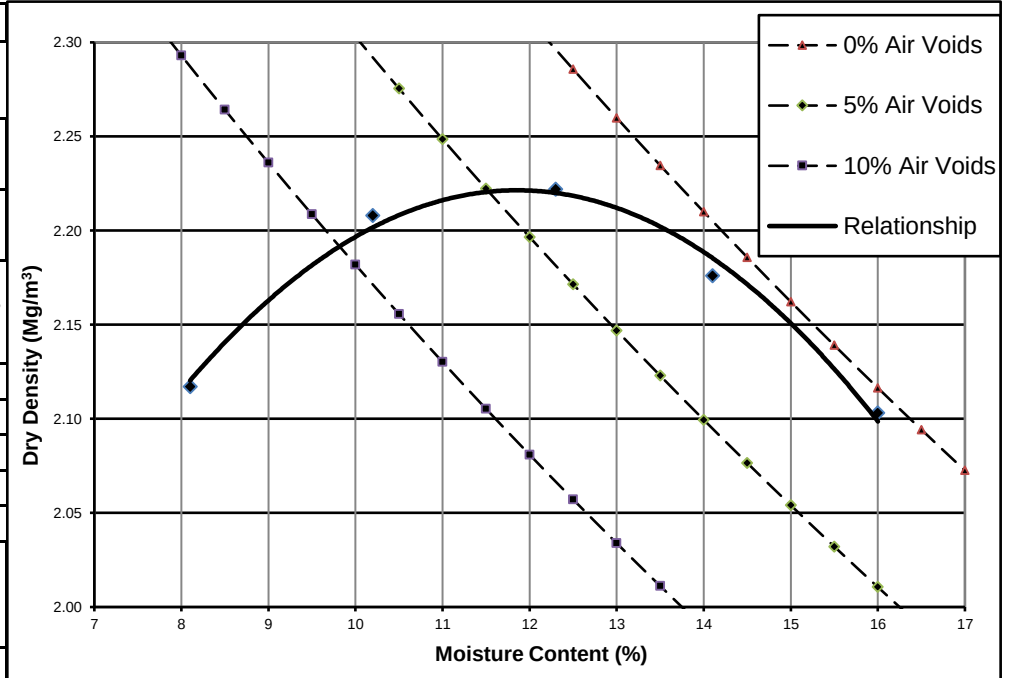
12.3 2.22

14.1 2.18

16.0 2.10

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

12.0 2.22



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 25 February 2019
Test Report Ref: TR 640348

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E A8 - 1.5m
01/11/2018
28/11/2018
21/02/2019
4E A8 - 1.5m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 6 %

Retained on
20mm Sieve: 25 %

Moisture
Content (%) Dry Density Mg/m³

6.9 1.83

9.2 1.92

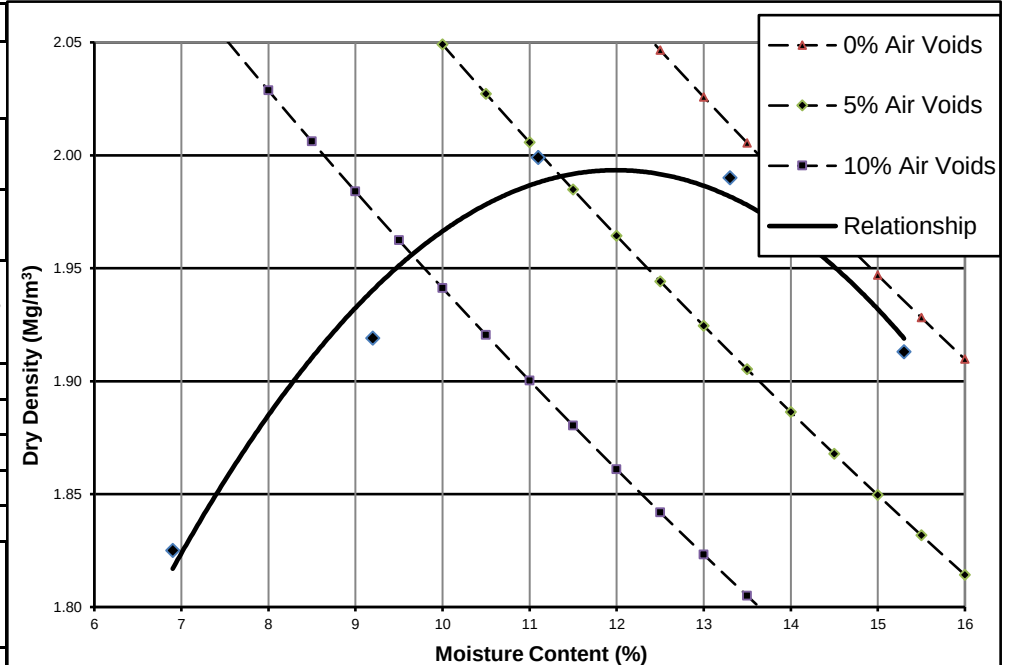
11.1 2.00

13.3 1.99

15.3 1.91

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

12.0 2.00



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 April 2019
Test Report Ref: TR 640363

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E B4 - 1.0m
29-30/10/2018
28/11/2018
01/04/2019
4E B4 - 1.0m
Granular

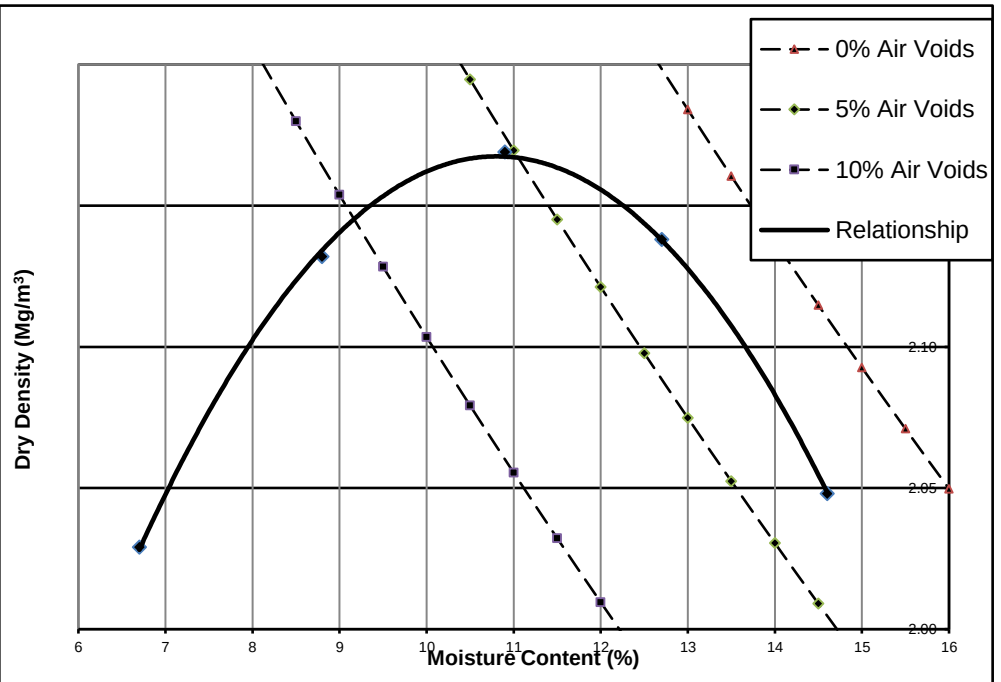
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.05Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	8 %
Retained on 20mm Sieve:	24 %
Moisture Content (%)	Dry Density Mg/m ³
6.7	2.03
8.8	2.13
10.9	2.17
12.7	2.14
14.6	2.05
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.17



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 February 2019
Test Report Ref: TR 640355

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E B7 - 0.5m
01/11/2018
28/11/2018
26/02/2019
4E B7 - 0.5m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

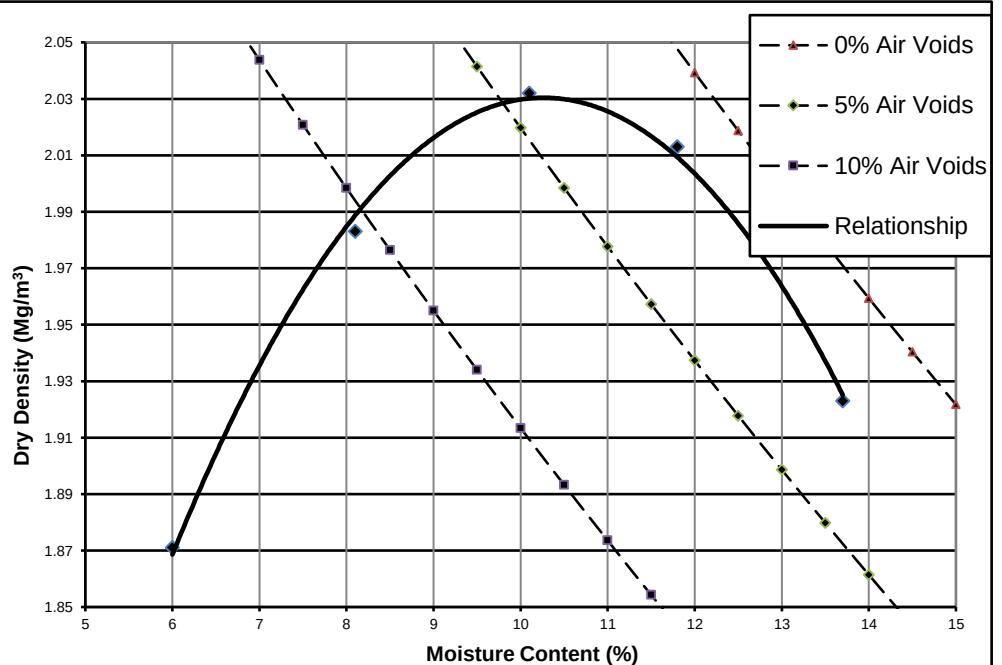
Particle Density: 2.7Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 4 %

Retained on
20mm Sieve: 10 %

Moisture Content (%)	Dry Density Mg/m ³
6.0	1.87
8.1	1.98
10.1	2.03
11.8	2.01
13.7	1.92

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.03



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 March 2019
Test Report Ref: TR 640358

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E C1 - 0.3m
29-30/10/2018
28/11/2018
27/02/2019
4E C1 - 0.3m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.6Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 17 %

Retained on
20mm Sieve: 30 %

Moisture
Content (%) Dry Density Mg/m³

5.1 1.58

7.2 1.84

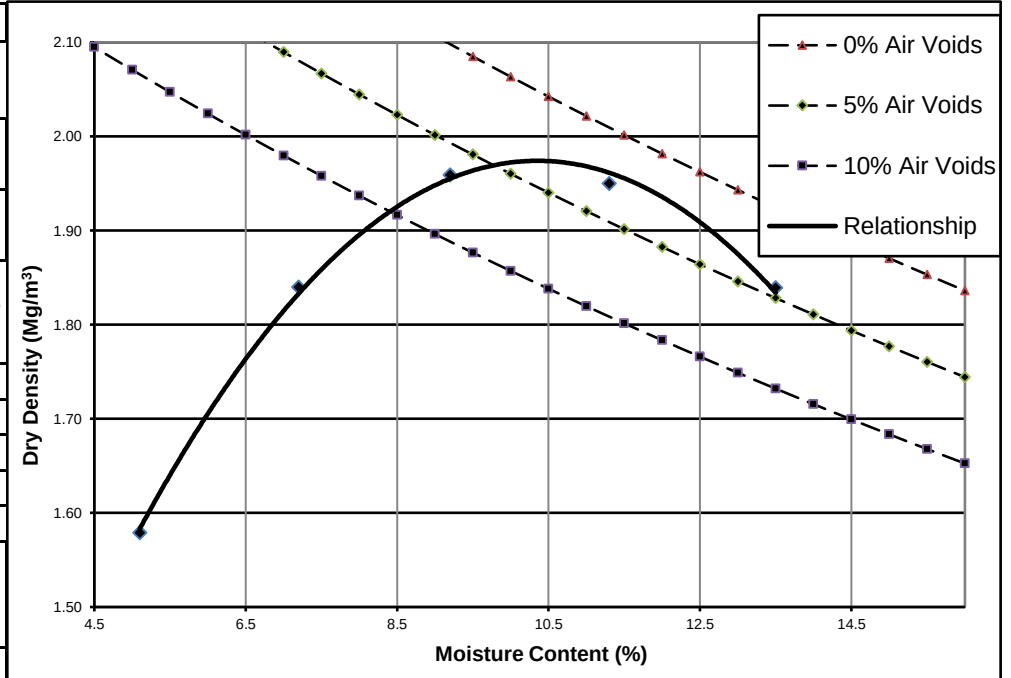
9.2 1.96

11.3 1.95

13.5 1.84

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

10.0 1.96



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 March 2019
Test Report Ref: TR 640362

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E C2 - 1.0m
29-30/10/2018
28/11/2018
02/03/2019
4E C2 - 1.0m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

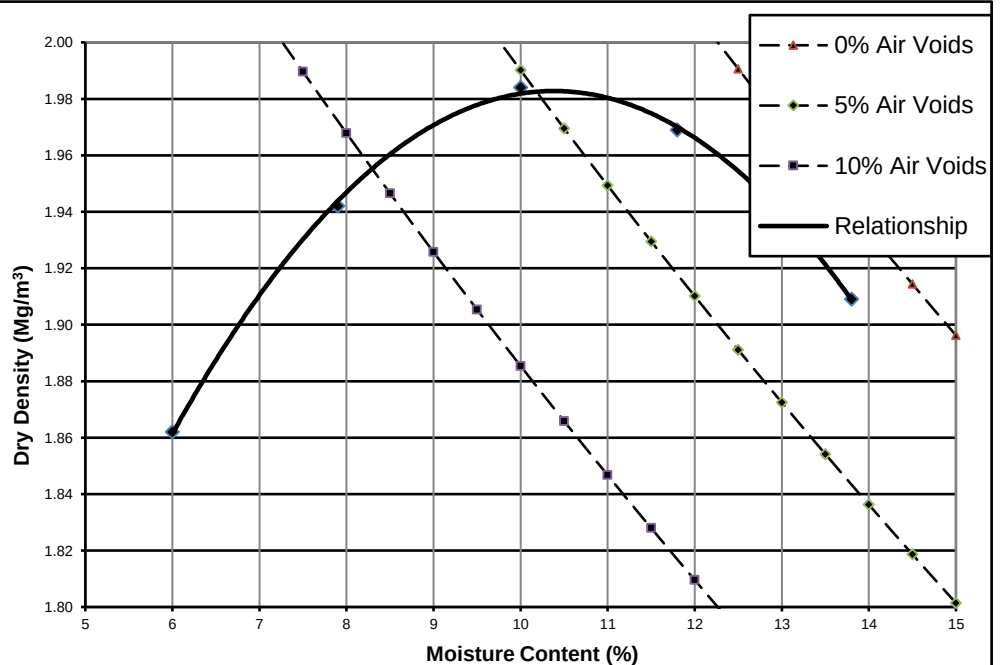
RESULTS:

Particle Density: 2.65Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	25 %
Retained on 20mm Sieve:	27 %

Moisture Content (%)	Dry Density Mg/m ³
6.0	1.86
7.9	1.94
10.0	1.98
11.8	1.97
13.8	1.91

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	1.98



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 25 February 2019
Test Report Ref: TR 640364

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E C4 - 1.0m
29-30/10/2018
28/11/2018
21/02/2019
4E C4 - 1.0m
Granular

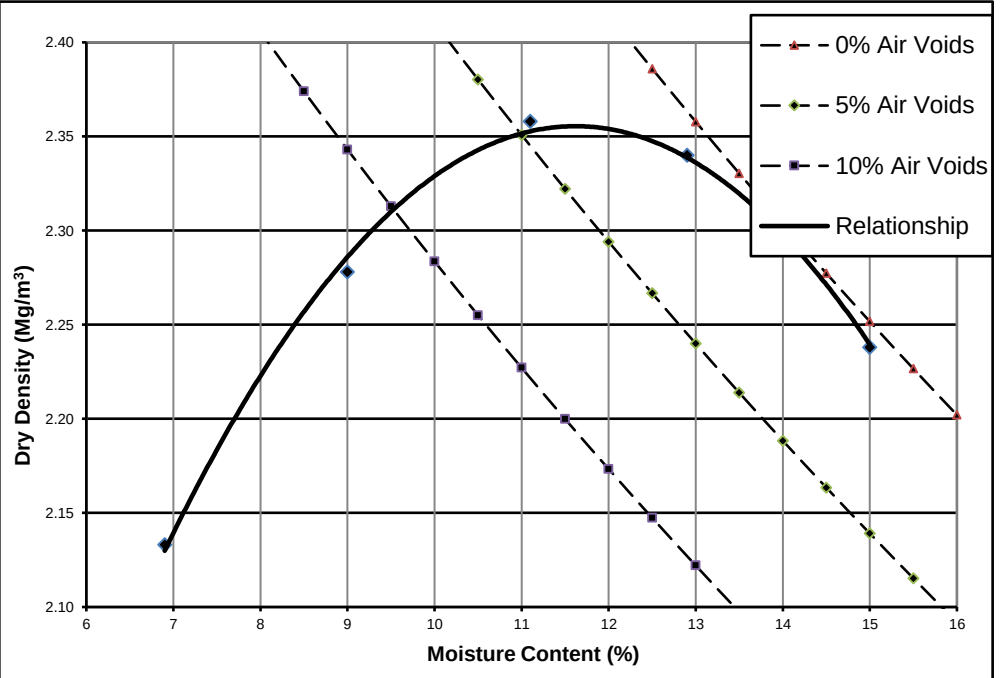
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	6 %
Retained on 20mm Sieve:	24 %
Moisture Content (%)	Dry Density Mg/m ³
6.9	2.13
9.0	2.28
11.1	2.36
12.9	2.34
15.0	2.24
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.36



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 February 2019
Test Report Ref: TR 640361

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E D2 - 1.0m
29-30/10/2018
28/11/2018
26/02/2019
4E D2 - 1.0m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.9Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 0 %

Retained on
20mm Sieve: 0 %

Moisture
Content (%) Dry Density Mg/m³

7.0 1.93

8.9 2.03

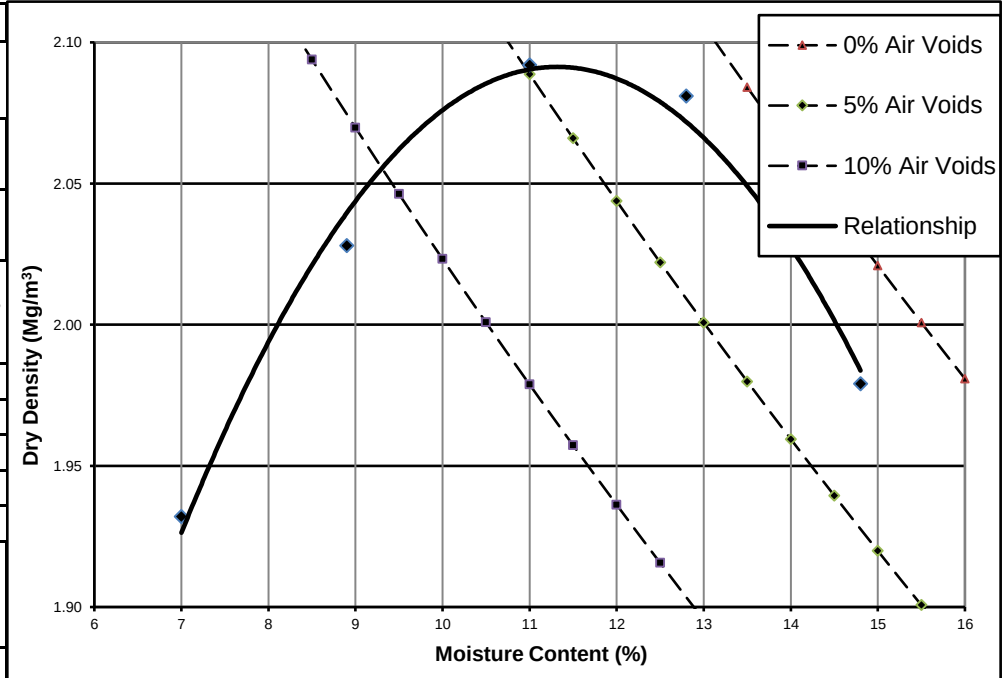
11.0 2.09

12.8 2.08

14.8 1.98

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

11.0 2.02



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 25 February 2019
Test Report Ref: TR 640365

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E D4 - 1.0m
29-30/10/2018
28/11/2018
21/02/2019
4E D4 - 1.0m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.2Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 9 %

Retained on
20mm Sieve: 26 %

Moisture
Content (%) Dry Density Mg/m³

7.0 2.03

9.2 2.17

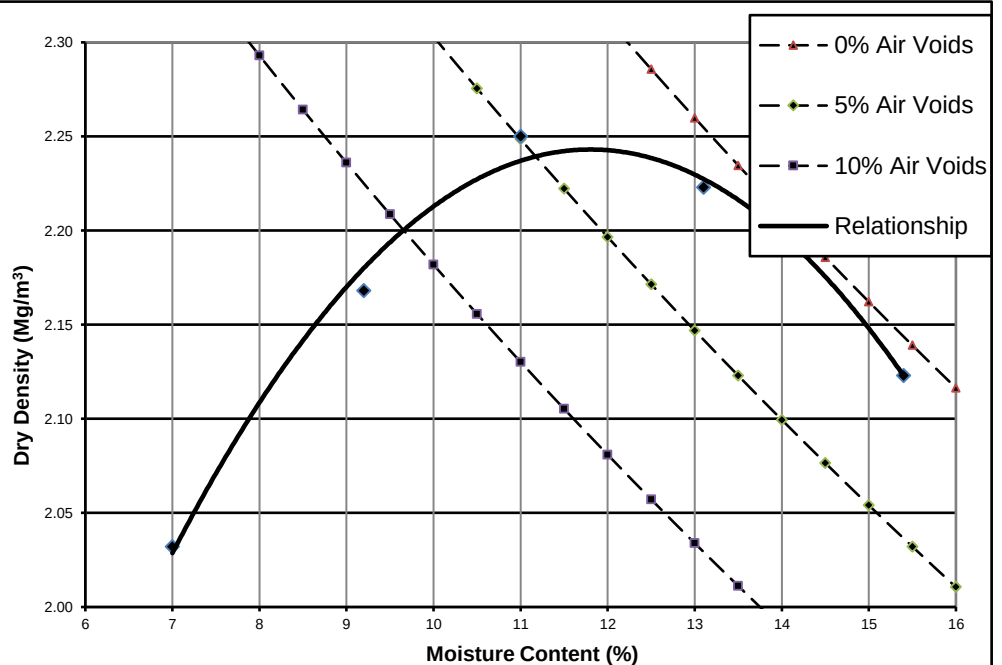
11.0 2.25

13.1 2.22

15.4 2.12

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

12.0 2.24



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 25 February 2019
Test Report Ref: TR 640353

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E D7 - 1.0m
01/11/2018
28/11/2018
21/02/2019
4E D7 - 1.0m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 3.55Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 17 %

Retained on
20mm Sieve: 37 %

Moisture
Content (%) Dry Density Mg/m³

7.2 2.16

9.0 2.28

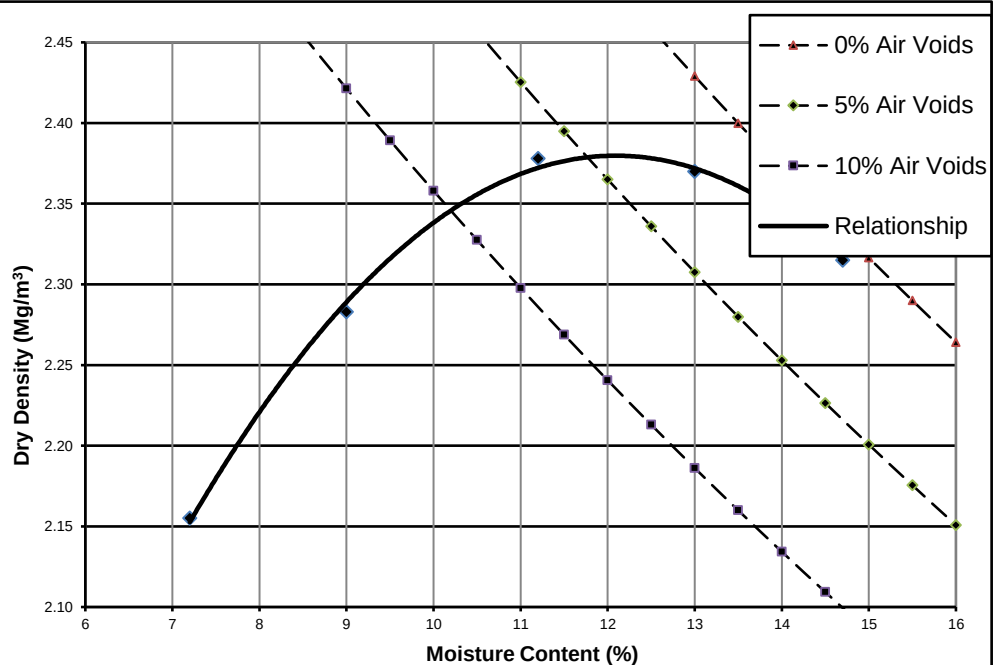
11.2 2.38

13.0 2.37

14.7 2.32

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

12.0 2.38



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 March 2019
Test Report Ref: TR 640357

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E E1 - 1.0m
01/11/2018
28/11/2018
04/03/2019
4E E1 - 1.0m
Granular

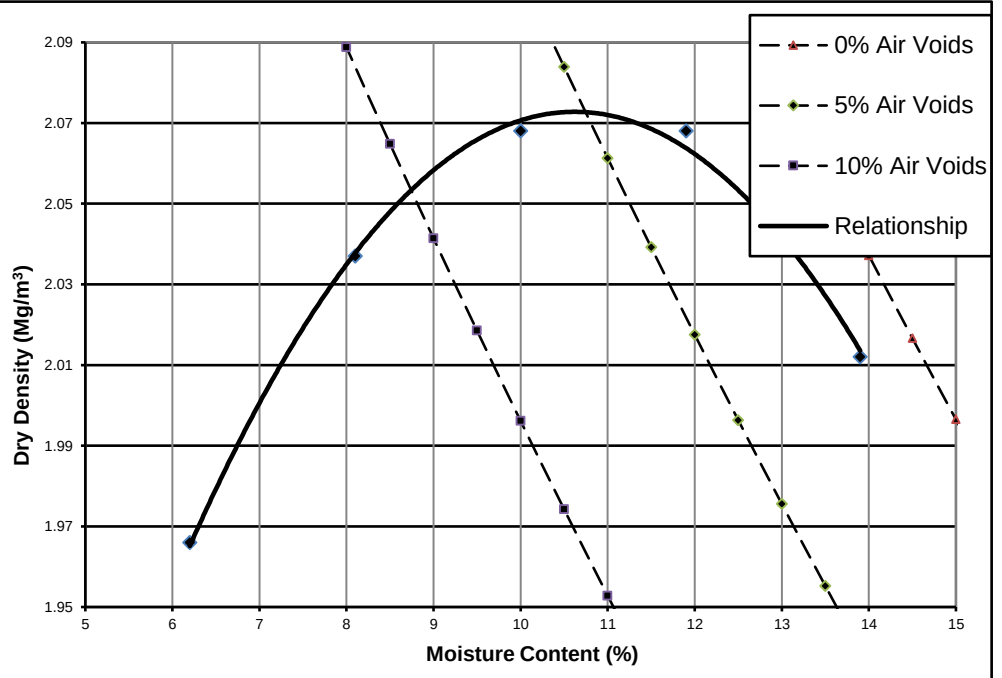
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 2.85Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	11 %
Retained on 20mm Sieve:	25 %
Moisture Content (%)	Dry Density Mg/m ³
6.2	1.97
8.1	2.04
10.0	2.07
11.9	2.07
13.9	2.01
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.07



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 February 2019
Test Report Ref: TR 640360

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E E2 - 1.5m
29-30/10/2018
28/11/2018
14/02/2019
4E E2 - 1.5m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.15Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 12 %

Retained on
20mm Sieve: 20 %

Moisture
Content (%) Dry Density Mg/m³

8.2 2.02

10.0 2.14

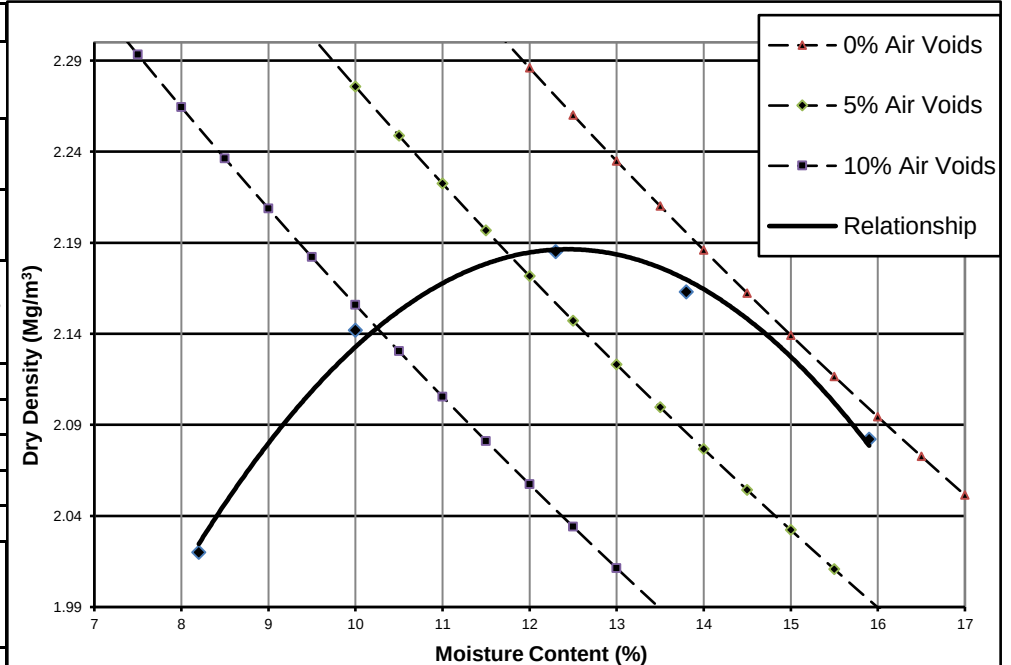
12.3 2.19

13.8 2.16

15.9 2.08

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

12.0 2.19



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 February 2019
Test Report Ref: TR 640370

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E E6 - 0.7m
29-30/10/2018
28/11/2018
26/02/2019
4E E6 - 0.7m
Granular

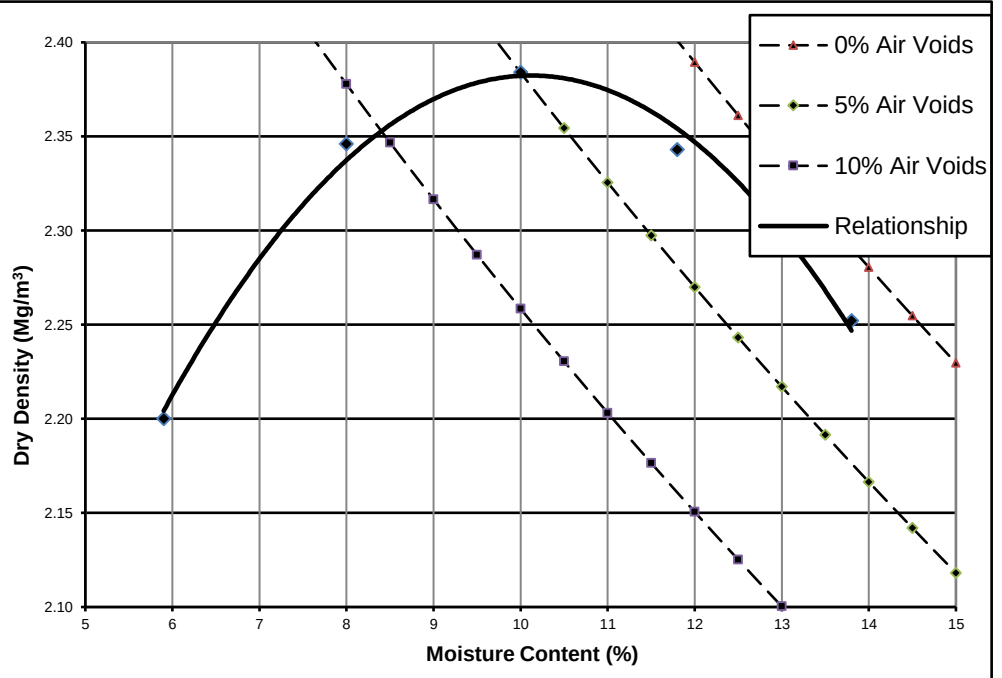
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.35Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	8 %
Retained on 20mm Sieve:	21 %
Moisture Content (%)	Dry Density Mg/m ³
5.9	2.20
8.0	2.35
10.0	2.38
11.8	2.34
13.8	2.25
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.38



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 March 2019
Test Report Ref: TR 640372

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E E7 - 0.8m
29-30/10/2018
28/11/2018
27/02/2019
4E E7 - 0.8m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.65Mg/m³
(Assumed)

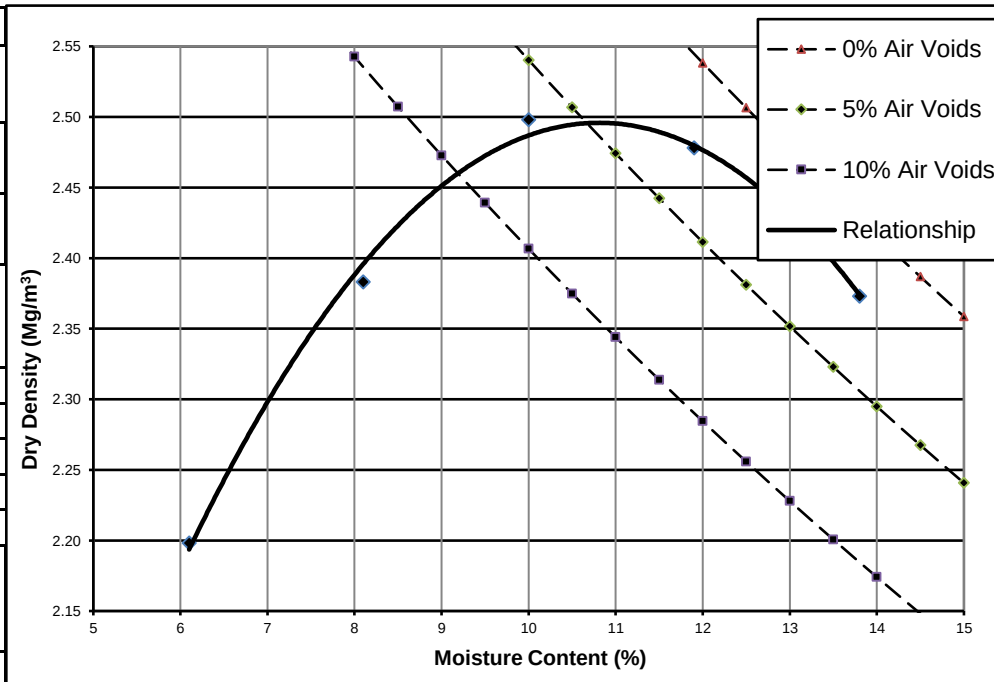
Retained on
37.5mm Sieve: 0 %

Retained on
20mm Sieve: 1 %

Moisture Content (%)	Dry Density Mg/m ³
6.1	2.20
8.1	2.38
10.0	2.50
11.9	2.48
13.8	2.37

6.1	2.20
8.1	2.38
10.0	2.50
11.9	2.48
13.8	2.37

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.49



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 25 March 2019
Test Report Ref: TR 640371

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E F6 - 0.4m
29-30/10/2018
28/11/2018
21/03/2019
4E F6 - 0.4m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **N/A**
Sample Preparation Method: **Single**

RESULTS:

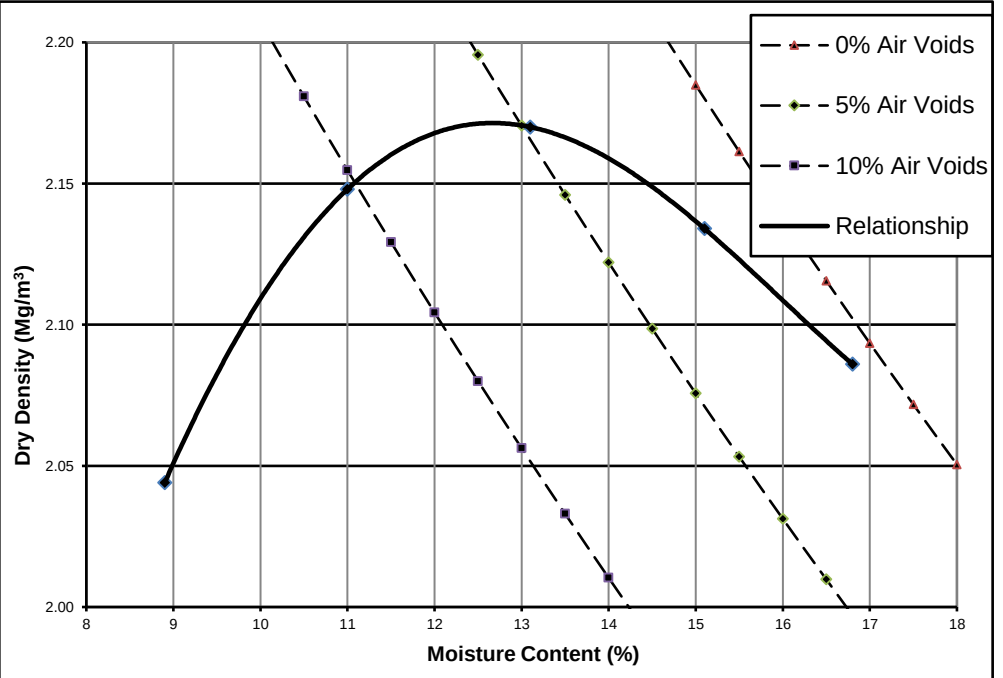
Particle Density: 3.25Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	13 %
---------------------------	------

Retained on 20mm Sieve:	31 %
-------------------------	------

Moisture Content (%)	Dry Density Mg/m ³
8.9	2.04
11.0	2.15
13.1	2.17
15.1	2.13
16.8	2.09

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.17



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 February 2019
Test Report Ref: TR 640368

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4E G4 - 1.0m
29-30/10/2018
28/11/2018
25/02/2019
4E G4 - 1.0m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.4Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 9 %

Retained on
20mm Sieve: 25 %

Moisture
Content (%) Dry Density Mg/m³

1.0 2.66

2.9 2.71

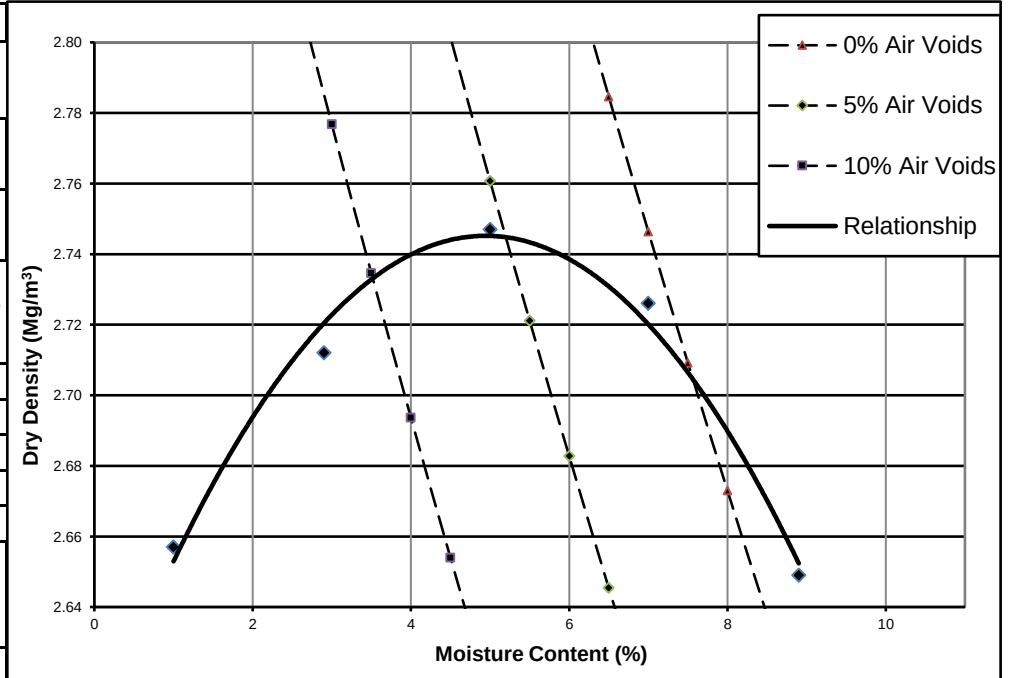
5.0 2.75

7.0 2.73

8.9 2.65

Optimum
Moisture
Content (%) Maximum Dry
Density Mg/m³

5.0 2.75



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 06 February 2019
Test Report Ref: TR 640389

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4G A4 - 0.5m
25-26/11/2018
28/11/2018
25/01/2019
4G A4 - 0.5m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

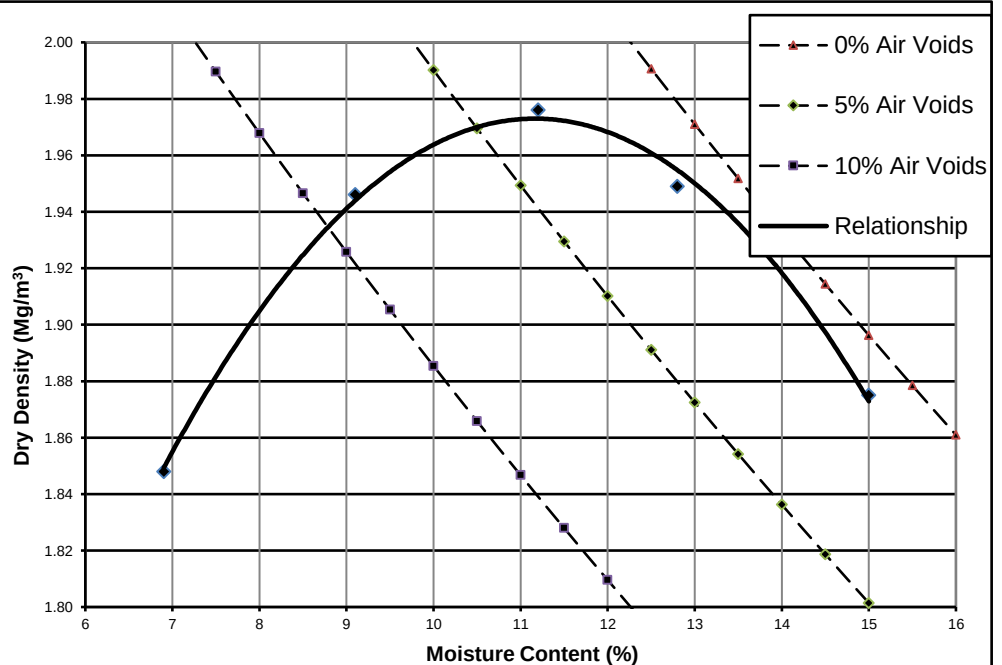
Particle Density: 2.65Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 7 %

Retained on
20mm Sieve: 22 %

Moisture Content (%)	Dry Density Mg/m ³
6.9	1.85
9.1	1.95
11.2	1.98
12.8	1.95
15.0	1.88

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	1.98



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 January 2019
Test Report Ref: TR 640384

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4G A6 - 0.5m
25-26/11/2018
28/11/2018
23/01/2019
4G A6 - 0.5m
Granular

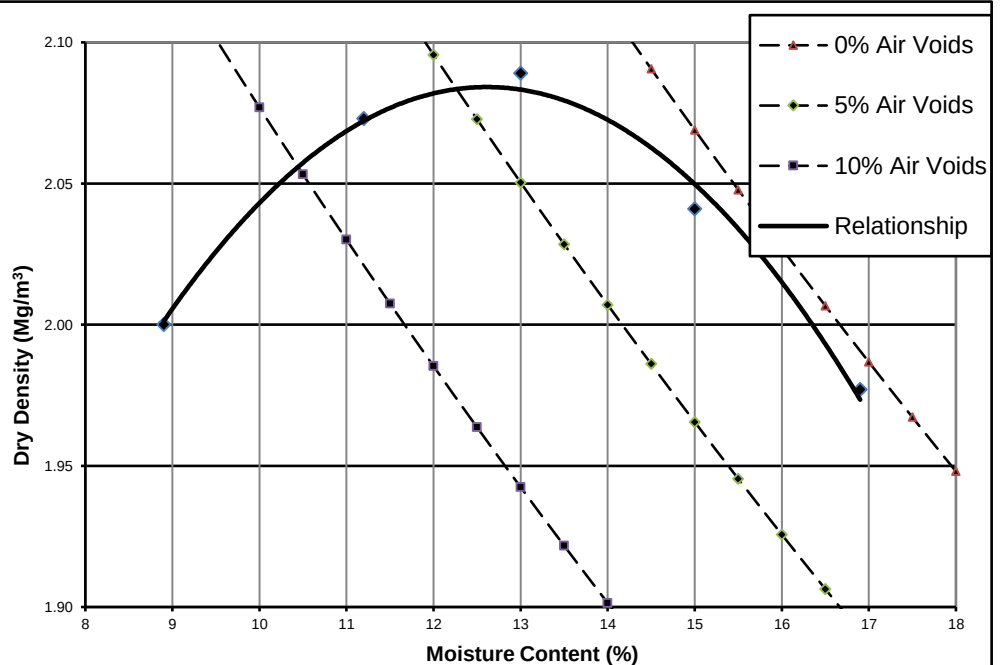
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	8 %
Retained on 20mm Sieve:	25 %
Moisture Content (%)	Dry Density Mg/m ³
8.9	2.00
11.2	2.07
13.0	2.09
15.0	2.04
16.9	1.98
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.09



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 March 2019
Test Report Ref: TR 640381

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4G B5 - 1.0m
25-26/11/2018
28/11/2018
23/03/2019
4G B5 - 1.0m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

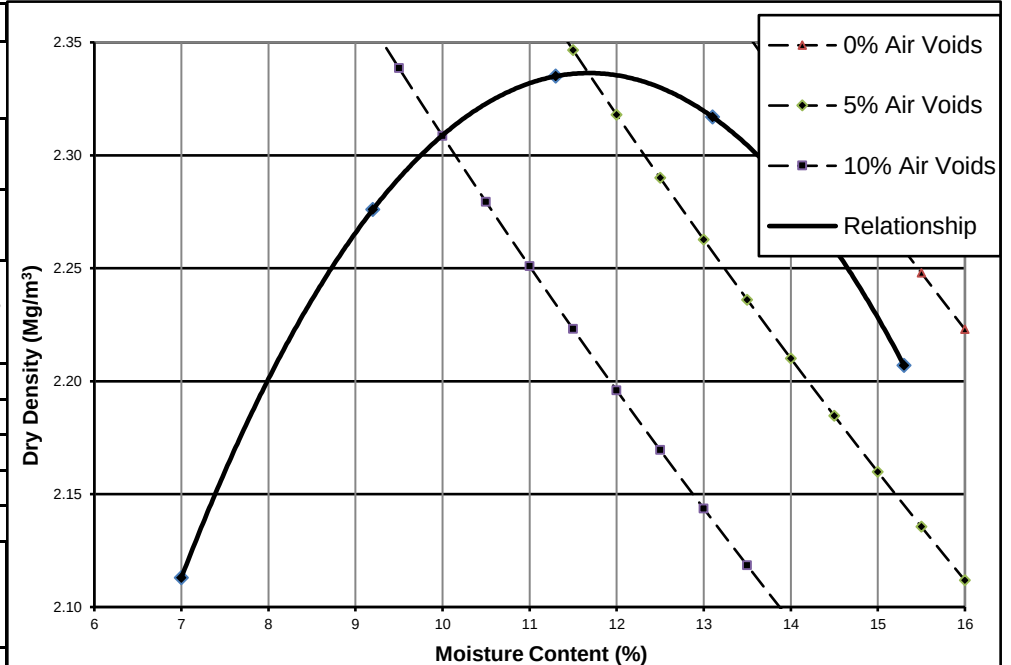
RESULTS:

Particle Density: 3.45Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	67 %

Moisture Content (%)	Dry Density Mg/m ³
7.0	2.11
9.2	2.28
11.3	2.34
13.1	2.32
15.3	2.21

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.34



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 February 2019
Test Report Ref: TR 640383

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4G B6 - 1.0m
25-26/11/2018
28/11/2018
04/02/2019
4G B6 - 1.0m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.8Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 10 %

Retained on
20mm Sieve: 33 %

Moisture Content (%)	Dry Density Mg/m ³
8.2	2.21
10.3	2.35
12.2	2.41
14.1	2.39
16.0	2.33

8.2	2.21
10.3	2.35
12.2	2.41
14.1	2.39
16.0	2.33

8.2	2.21
10.3	2.35
12.2	2.41
14.1	2.39
16.0	2.33

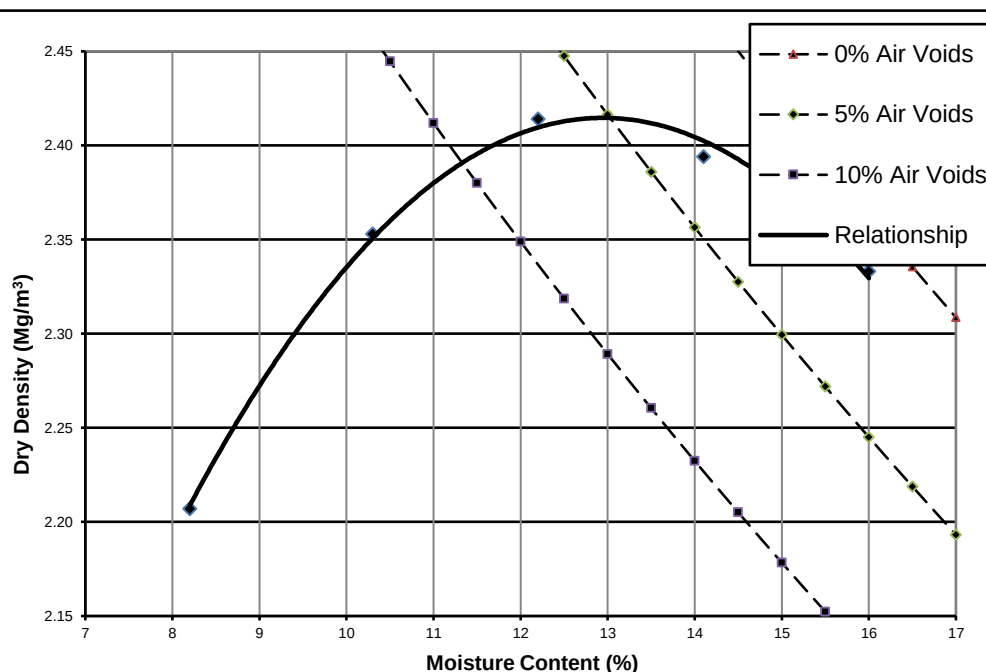
8.2	2.21
10.3	2.35
12.2	2.41
14.1	2.39
16.0	2.33

8.2	2.21
10.3	2.35
12.2	2.41
14.1	2.39
16.0	2.33

8.2	2.21
10.3	2.35
12.2	2.41
14.1	2.39
16.0	2.33

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.41

13.0	2.41
------	------



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 22 January 2019
Test Report Ref: TR 640388

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4G B7 - 0.7m
25-26/11/2018
28/11/2018
21/01/2019
4G B7 - 0.7m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

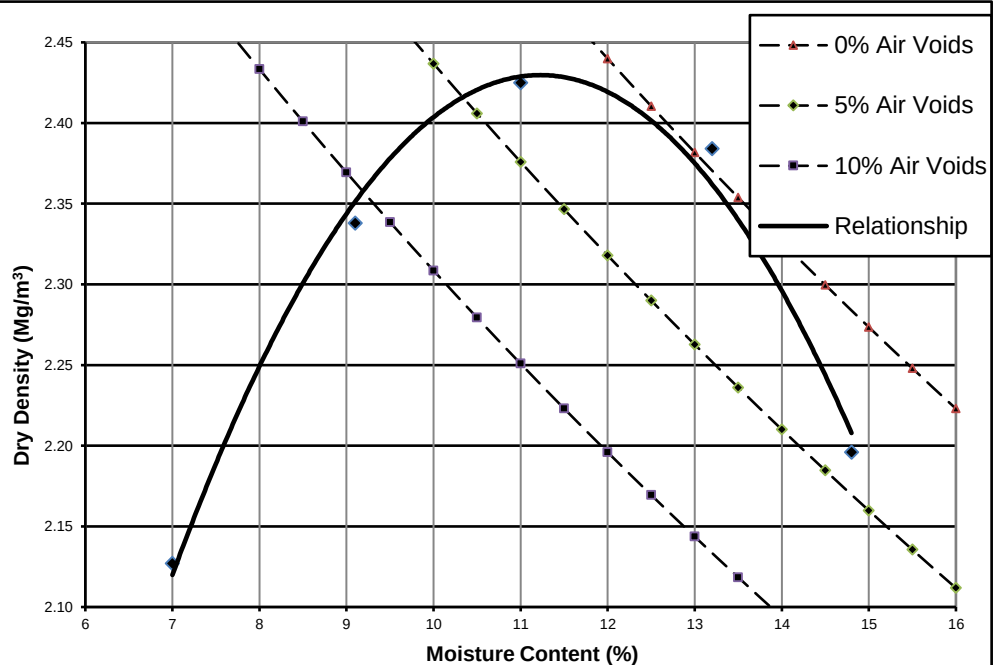
Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.45Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	15 %
Retained on 20mm Sieve:	37 %

Moisture Content (%)	Dry Density Mg/m ³
7.0	2.13
9.1	2.34
11.0	2.43
13.2	2.38
14.8	2.20
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.43



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 22 January 2019
Test Report Ref: TR 640387

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S77023
4G B8 - 0.8m
25-26/11/2018
28/11/2018
21/01/2019
4G B8 - 0.8m
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**

Unrepresentative lumps present?
Sample Preparation Procedure: **Zone X**
Sample Preparation Method: **Single**

RESULTS:

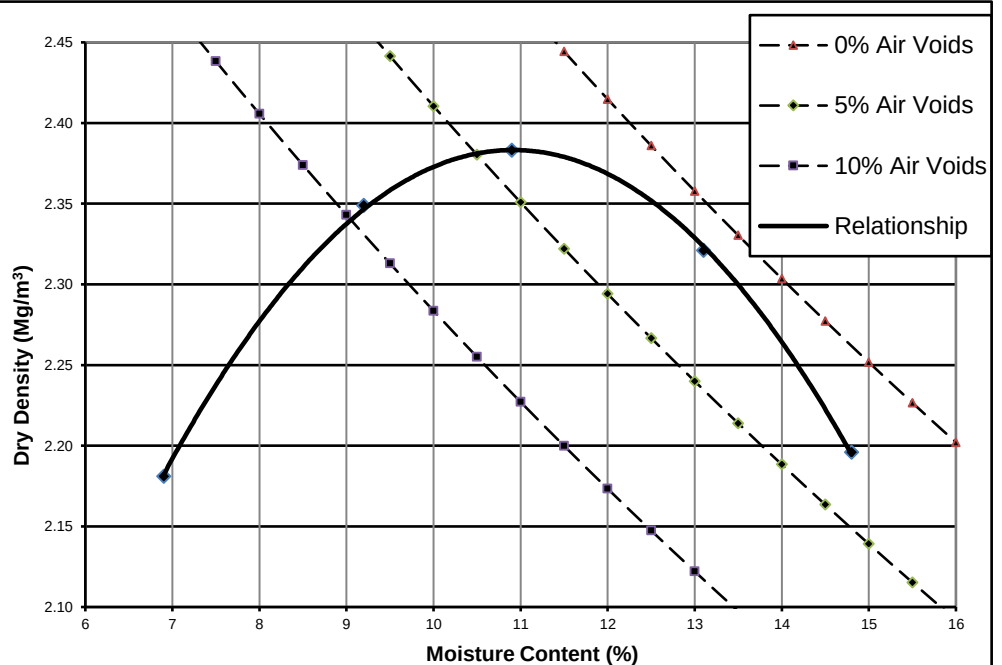
Particle Density: 3.4Mg/m³
(Assumed)

Retained on
37.5mm Sieve: 9 %

Retained on
20mm Sieve: 19 %

Moisture Content (%)	Dry Density Mg/m ³
6.9	2.18
9.2	2.35
10.9	2.38
13.1	2.32
14.8	2.20

Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.38



Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630428

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CG4 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

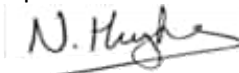
RESULTS:

Moisture Content (%) = 15

Comments

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 27 November 2018
Test Report Ref: TR 628659

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76088
Client Ref. No:	4 C G 5
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	15/10/2018
Date of Start of Test:	17/10/2018
Sampling Location:	Phase 4C 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 13

Comments

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630429

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH1 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 18

Comments

None

Report checked and approved by:

N. Hughes

Neil Hughes

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630436

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH2 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

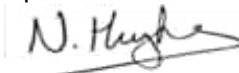
RESULTS:

Moisture Content (%) = 21

Comments

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630433

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH4 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

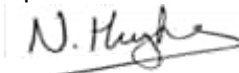
RESULTS:

Moisture Content (%) = 11

Comments

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630432

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH5 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

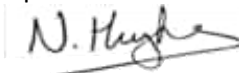
RESULTS:

Moisture Content (%) = 8.9

Comments

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630435

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI1 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

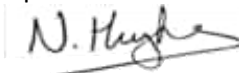
RESULTS:

Moisture Content (%) = 12

Comments

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630434

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI2 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

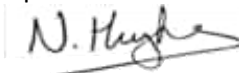
RESULTS:

Moisture Content (%) = 9.0

Comments

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630430

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI3 - 0.8
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

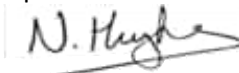
RESULTS:

Moisture Content (%) = 7.5

Comments

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 November 2018
Test Report Ref: TR 630431

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI4 - 0.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	22/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 7.9

Comments

None

Report checked and approved by:

N. Hughes

Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 631978

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C I 5 - 0.75m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	12/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 15

Comments

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 631974

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C I 7 - 0.50m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	12/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 17

Comments

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 631981

Order No: BACS-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 1 - 1.50m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	12/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 16

Comments

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 631977

Order No: BACS-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 2 - 1.00m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	12/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 19

Comments

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 631936

Order No: BACS-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 3 - 1.00m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	12/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 12

Comments

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 631973

Order No: BACS-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Moisture Content of a soil sample
(definitive oven-drying method) in accordance with
BS 1377 : Part 2 : 1990 : clause 3.2

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C K 2 -
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	12/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Moisture Content (%) = 9.7

Comments

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640002

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E A7 - 1.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E A7 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.5

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 639995

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E A8 - 1.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E A8 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 19.7

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640011

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E B4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E B4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.2

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
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B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640003

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E B7 - 0.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E B7 - 0.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.0

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640006

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C1 - 0.3m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E C1 - 0.3m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.4

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
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B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640010

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C2 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E C2 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.2

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
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B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640012

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E C4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.6

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 16 January 2019
Test Report Ref: TR 640004

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C7 - 1.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E C7 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.0

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640007

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D1 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E D1 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 45.6

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640009

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D2 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E D2 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.8

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640013

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E D4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.3

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640001

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D7 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E D7 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 9.0

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 639999

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D8 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E D8 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.9

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 639993

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D9 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E D9 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.8

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640005

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E1 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E E1 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.3

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640008

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E2 - 1.5m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E E2 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.2

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640014

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E4 - 1.5m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E E4 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.9

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640017

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E5 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E E5 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.6

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640018

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E6 - 0.7m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E E6 - 0.7m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.1

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640020

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E7 - 0.8m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E E7 - 0.8m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.6

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640016

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E G4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4E G4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 9.4

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640037

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G A4 - 0.5m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4G A4 - 0.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 19.4

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640032

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G A6 - 0.5m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4G A6 - 0.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 17.0

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640029

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G B5 - 1.0m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4G B5 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.1

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640031

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G B6 - 1.0m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4G B6 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.3

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640036

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G B7 - 0.7m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4G B7 - 0.7m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 7.7

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 January 2019
Test Report Ref: TR 640035

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G B8 - 0.8m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	4G B8 - 0.8m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.1

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630464

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CG4 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

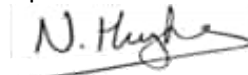
RESULTS:

Particle density on an oven-dried basis =	2.71 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.87 Mg/m ³
Apparent Particle density =	3.23 Mg/m ³
Water absorption (of dry mass) =	6.0%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 26 October 2018
Test Report Ref: TR 628661

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76088
Client Ref. No:	4 C G 5
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	15/10/2018
Date of Start of Test:	25/10/2018
Sampling Location:	Phase 4C 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

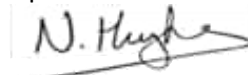
RESULTS:

Particle density on an oven-dried basis =	2.63 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.76 Mg/m ³
Apparent Particle density =	3.01 Mg/m ³
Water absorption (of dry mass) =	4.7%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630465

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH1 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

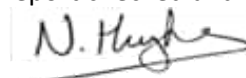
RESULTS:

Particle density on an oven-dried basis =	2.22 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.39 Mg/m ³
Apparent Particle density =	2.69 Mg/m ³
Water absorption (of dry mass) =	7.9%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630472

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH2 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

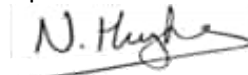
RESULTS:

Particle density on an oven-dried basis =	2.15 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.33 Mg/m ³
Apparent Particle density =	2.68 Mg/m ³
Water absorption (of dry mass) =	9.2%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630469

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH4 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

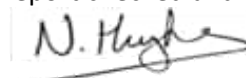
RESULTS:

Particle density on an oven-dried basis =	2.47 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.61 Mg/m ³
Apparent Particle density =	2.85 Mg/m ³
Water absorption (of dry mass) =	5.4%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630468

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH5 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

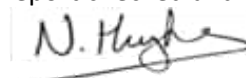
RESULTS:

Particle density on an oven-dried basis =	2.85 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.97 Mg/m ³
Apparent Particle density =	3.24 Mg/m ³
Water absorption (of dry mass) =	4.2%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 26 October 2018
Test Report Ref: TR 628651

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76088
Client Ref. No:	4 C H 6
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	15/10/2018
Date of Start of Test:	25/10/2018
Sampling Location:	Phase 4C 0.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

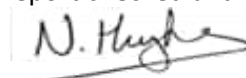
RESULTS:

Particle density on an oven-dried basis =	2.90 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.00 Mg/m ³
Apparent Particle density =	3.23 Mg/m ³
Water absorption (of dry mass) =	3.5%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630471

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI1 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

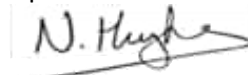
RESULTS:

Particle density on an oven-dried basis =	2.46 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.62 Mg/m ³
Apparent Particle density =	2.91 Mg/m ³
Water absorption (of dry mass) =	6.3%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630470

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI2 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

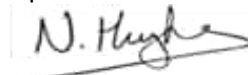
RESULTS:

Particle density on an oven-dried basis =	2.60 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.71 Mg/m ³
Apparent Particle density =	2.94 Mg/m ³
Water absorption (of dry mass) =	4.5%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630466

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI3 - 0.8
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

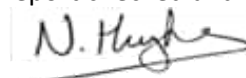
RESULTS:

Particle density on an oven-dried basis =	2.61 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.73 Mg/m ³
Apparent Particle density =	2.98 Mg/m ³
Water absorption (of dry mass) =	4.6%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 November 2018
Test Report Ref: TR 630467

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI4 - 0.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	02/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

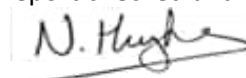
RESULTS:

Particle density on an oven-dried basis =	2.67 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.82 Mg/m ³
Apparent Particle density =	3.33 Mg/m ³
Water absorption (of dry mass) =	4.6%

Comments:

None

Report checked and approved by:



Neil Hughes
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 632096

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C I 5 - 0.75m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	27/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.21 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.34 Mg/m ³
Apparent Particle density =	2.53 Mg/m ³
Water absorption (of dry mass) =	5.8%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 632092

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C I 7 - 0.50m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	27/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.19 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.28 Mg/m ³
Apparent Particle density =	2.40 Mg/m ³
Water absorption (of dry mass) =	4.0%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 632102

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 1 - 1.50m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	27/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.25 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.38 Mg/m ³
Apparent Particle density =	2.58 Mg/m ³
Water absorption (of dry mass) =	5.7%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Longbridge
Birmingham
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Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 632095

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 2 - 1.00m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	27/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.22 Mg/m³
Particle density on a saturated and surface-dried basis =	2.33 Mg/m³
Apparent Particle density =	2.50 Mg/m³
Water absorption (of dry mass) =	5.0%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 632055

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 3 - 1.00m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	27/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.52 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.63 Mg/m ³
Apparent Particle density =	2.83 Mg/m ³
Water absorption (of dry mass) =	4.4%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Birmingham
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Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 632091

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C K 2 -
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	27/11/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.28 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.39 Mg/m ³
Apparent Particle density =	2.56 Mg/m ³
Water absorption (of dry mass) =	4.8%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640115

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E A7 - 1.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E A7 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.76 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.85 Mg/m ³
Apparent Particle density =	3.05 Mg/m ³
Water absorption (of dry mass) =	3.5%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640109

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E A8 - 1.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E A8 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.77 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.90 Mg/m ³
Apparent Particle density =	2.03 Mg/m ³
Water absorption (of dry mass) =	7.0%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
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Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640124

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E B4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E B4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.77 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.86 Mg/m ³
Apparent Particle density =	3.03 Mg/m ³
Water absorption (of dry mass) =	3.1%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
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17 High Street
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Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640116

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E B7 - 0.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E B7 - 0.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.98 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.34 Mg/m ³
Apparent Particle density =	3.13 Mg/m ³
Water absorption (of dry mass) =	18.7%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640119

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C1 - 0.3m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E C1 - 0.3m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.95 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.04 Mg/m ³
Apparent Particle density =	2.15 Mg/m ³
Water absorption (of dry mass) =	4.6%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

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Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 18 January 2019
Test Report Ref: TR 640123

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C2 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	18/01/2019
Sampling Location:	4E C2 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.97 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.07 Mg/m ³
Apparent Particle density =	3.30 Mg/m ³
Water absorption (of dry mass) =	3.4%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
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17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640125

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E C4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.47 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.55 Mg/m ³
Apparent Particle density =	2.70 Mg/m ³
Water absorption (of dry mass) =	3.6%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640117

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C7 - 1.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E C7 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.93 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.03 Mg/m ³
Apparent Particle density =	3.25 Mg/m ³
Water absorption (of dry mass) =	3.3%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640120

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D1 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E D1 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.24 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.33 Mg/m ³
Apparent Particle density =	2.46 Mg/m ³
Water absorption (of dry mass) =	3.9%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640122

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D2 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/01/2019
Sampling Location:	4E D2 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.99 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.08 Mg/m ³
Apparent Particle density =	2.19 Mg/m ³
Water absorption (of dry mass) =	4.5%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640126

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	08/01/2019
Sampling Location:	4E D4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.72 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.89 Mg/m ³
Apparent Particle density =	3.05 Mg/m ³
Water absorption (of dry mass) =	3.9%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640114

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D7 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	08/01/2019
Sampling Location:	4E D7 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.94 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.05 Mg/m ³
Apparent Particle density =	3.31 Mg/m ³
Water absorption (of dry mass) =	3.8%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640118

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E1 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	08/01/2019
Sampling Location:	4E E1 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.48 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.59 Mg/m ³
Apparent Particle density =	2.80 Mg/m ³
Water absorption (of dry mass) =	4.6%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640121

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E2 - 1.5m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	08/01/2019
Sampling Location:	4E E2 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.98 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.10 Mg/m ³
Apparent Particle density =	2.26 Mg/m ³
Water absorption (of dry mass) =	6.3%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640127

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E4 - 1.5m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	08/01/2019
Sampling Location:	4E E4 - 1.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.40 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.49 Mg/m ³
Apparent Particle density =	2.62 Mg/m ³
Water absorption (of dry mass) =	3.5%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640130

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E5 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	08/01/2019
Sampling Location:	4E E5 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.81 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.91 Mg/m ³
Apparent Particle density =	3.10 Mg/m ³
Water absorption (of dry mass) =	3.3%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 10 January 2019
Test Report Ref: TR 640131

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E6 - 0.7m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	08/01/2019
Sampling Location:	4E E6 - 0.7m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.98 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.07 Mg/m ³
Apparent Particle density =	3.28 Mg/m ³
Water absorption (of dry mass) =	3.0%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 14 January 2019
Test Report Ref: TR 640132

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E F6 - 0.4m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	10/01/2019
Sampling Location:	4E F6 - 0.4m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.62 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.72 Mg/m ³
Apparent Particle density =	2.93 Mg/m ³
Water absorption (of dry mass) =	4.0%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 14 January 2019
Test Report Ref: TR 640129

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E G4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	10/01/2019
Sampling Location:	4E G4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	3.33 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.41 Mg/m ³
Apparent Particle density =	3.59 Mg/m ³
Water absorption (of dry mass) =	2.1%

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 October 2018
Test Report Ref: TR 628660

Order No: BACS-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

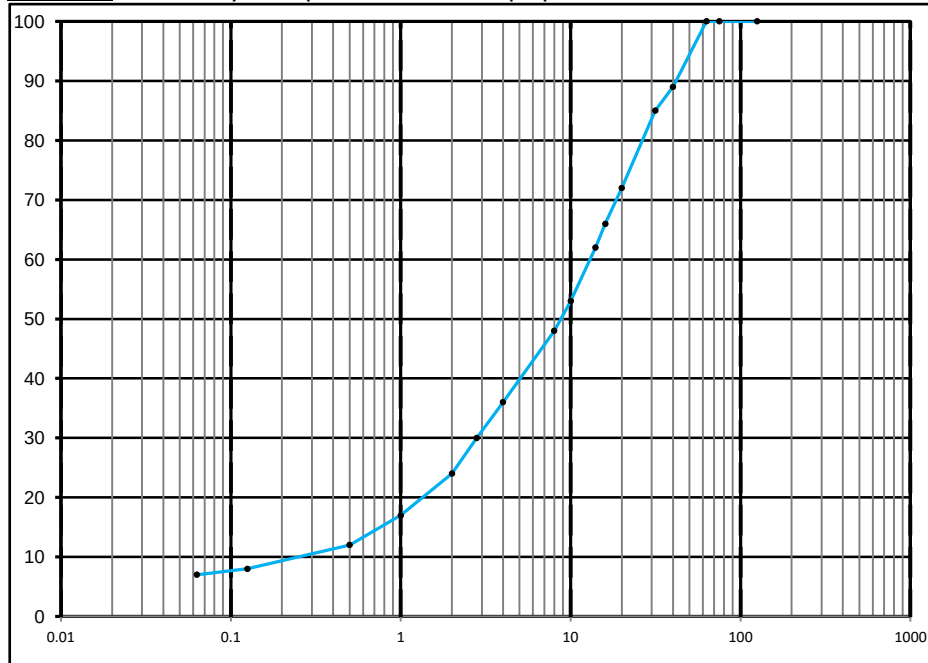
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76088	Method of Sampling:	Unknown
Client Ref. No:	4 C G 5	Sampled By:	Client
Date and Time of Sampling:	Unknown		
Date of Receipt at Lab:	15/10/2018		
Date of Start of Test:	17/10/2018		
Sampling Location:	Phase 4C 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	89	
31.5 mm	85	
20.0 mm	72	
16.0 mm	66	
14.0 mm	62	
10.0 mm	53	
8.0 mm	48	
4.0 mm	36	
2.8 mm	30	
2.0 mm	24	
1.0 mm	17	
0.500 mm	12	
0.125 mm	8	
0.063 mm	7	

Comments:

None

Report checked and approved by:

N. Hughes

Neil Hughes

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 October 2018
Test Report Ref: TR 628650

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

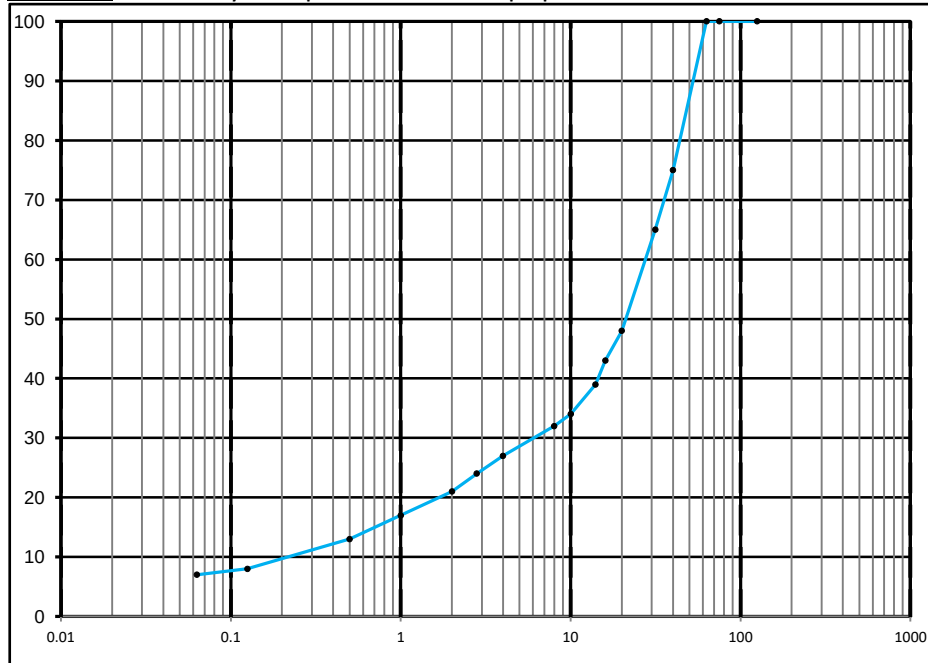
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76088	Method of Sampling:	Unknown
Client Ref. No:	4 C H 6	Sampled By:	Client
Date and Time of Sampling:	Unknown		
Date of Receipt at Lab:	15/10/2018		
Date of Start of Test:	17/10/2018		
Sampling Location:	Phase 4C 0.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	75	
31.5 mm	65	
20.0 mm	48	
16.0 mm	43	
14.0 mm	39	
10.0 mm	34	
8.0 mm	32	
4.0 mm	27	
2.8 mm	24	
2.0 mm	21	
1.0 mm	17	
0.500 mm	13	
0.125 mm	8	
0.063 mm	7	

Comments:

None

Report checked and approved by:

N. Hughes

Neil Hughes

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 632037

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

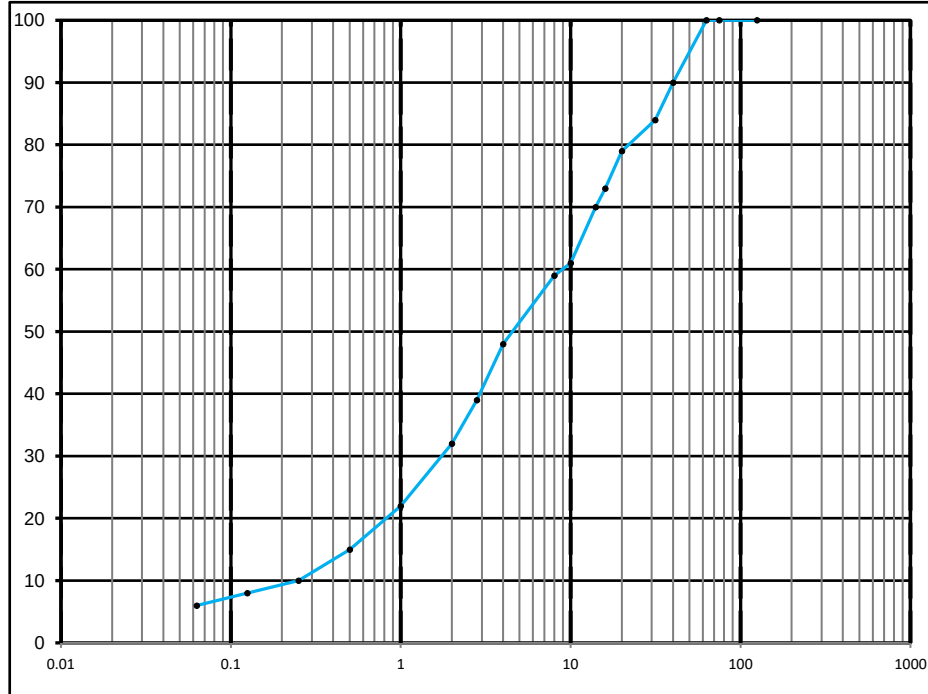
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. No:	4 C I 5 - 0.75m	Sampled By:	Client
Date and Time of Sampling:	Unknown		
Date of Receipt at Lab:	23/10/2018		
Date of Start of Test:	12/11/2018		
Sampling Location:	Former Llanwern Steelworks		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	90	
31.5 mm	84	
20.0 mm	79	
16.0 mm	73	
14.0 mm	70	
10.0 mm	61	
8.0 mm	59	
4.0 mm	48	
2.8 mm	39	
2.0 mm	32	
1.0 mm	22	
0.500 mm	15	
0.250 mm	10	
0.125 mm	8	
0.063 mm	6	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 632027

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

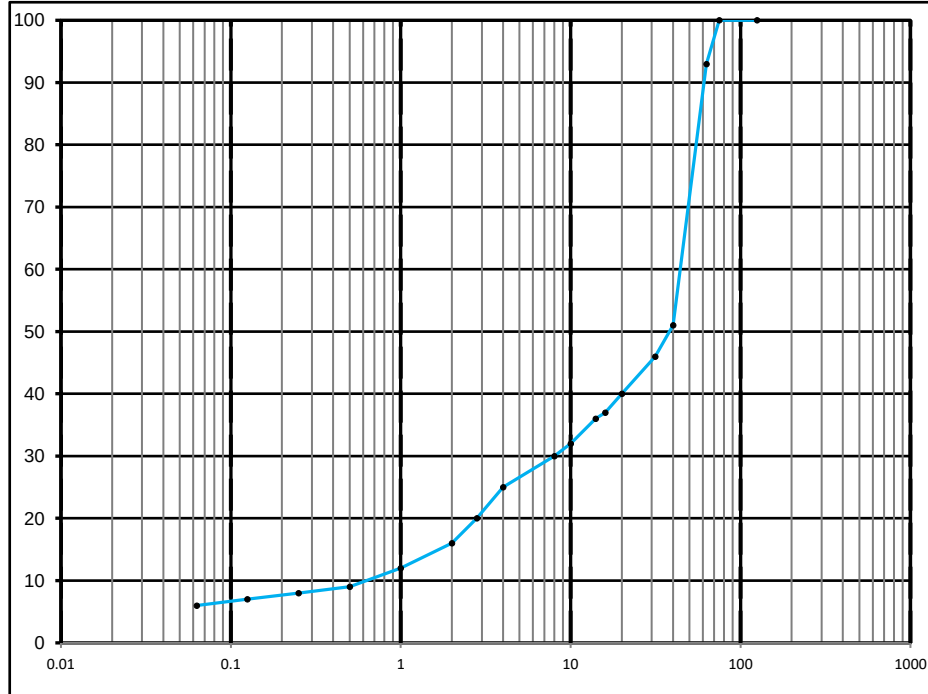
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. No:	4 C I 7 - 0.50m	Sampled By:	Client
Date and Time of Sampling:	Unknown		
Date of Receipt at Lab:	23/10/2018		
Date of Start of Test:	12/11/2018		
Sampling Location:	Former Llanwern Steelworks		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	93	
40.0 mm	51	
31.5 mm	46	
20.0 mm	40	
16.0 mm	37	
14.0 mm	36	
10.0 mm	32	
8.0 mm	30	
4.0 mm	25	
2.8 mm	20	
2.0 mm	16	
1.0 mm	12	
0.500 mm	9	
0.250 mm	8	
0.125 mm	7	
0.063 mm	6	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 632040

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

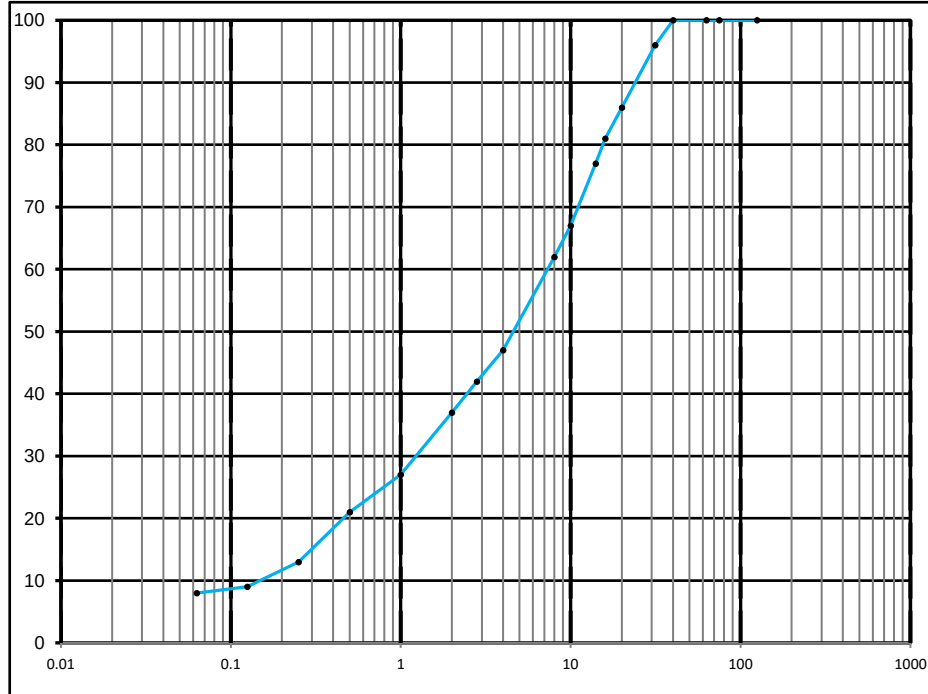
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. No:	4 C J 1 - 1.50m	Sampled By:	Client
Date and Time of Sampling:	Unknown		
Date of Receipt at Lab:	23/10/2018		
Date of Start of Test:	12/11/2018		
Sampling Location:	Former Llanwern Steelworks		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	100	
31.5 mm	96	
20.0 mm	86	
16.0 mm	81	
14.0 mm	77	
10.0 mm	67	
8.0 mm	62	
4.0 mm	47	
2.8 mm	42	
2.0 mm	37	
1.0 mm	27	
0.500 mm	21	
0.250 mm	13	
0.125 mm	9	
0.063 mm	8	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 632036

Order No: BACS-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

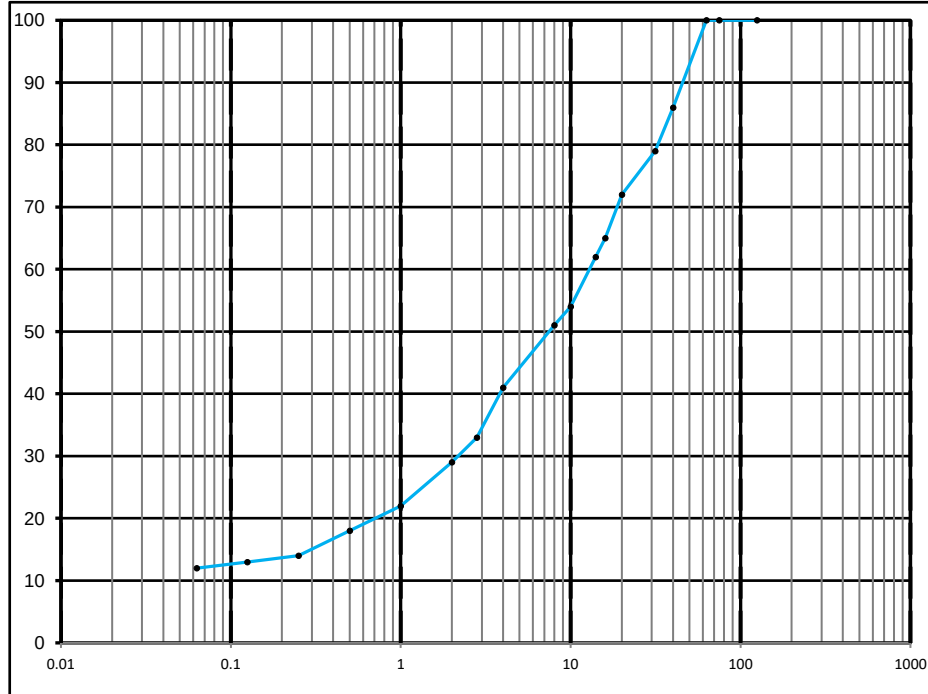
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. No:	4 C J 2 - 1.00m	Sampled By:	Client
Date and Time of Sampling:	Unknown		
Date of Receipt at Lab:	23/10/2018		
Date of Start of Test:	12/11/2018		
Sampling Location:	Former Llanwern Steelworks		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	86	
31.5 mm	79	
20.0 mm	72	
16.0 mm	65	
14.0 mm	62	
10.0 mm	54	
8.0 mm	51	
4.0 mm	41	
2.8 mm	33	
2.0 mm	29	
1.0 mm	22	
0.500 mm	18	
0.250 mm	14	
0.125 mm	13	
0.063 mm	12	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 November 2018
Test Report Ref: TR 632026

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

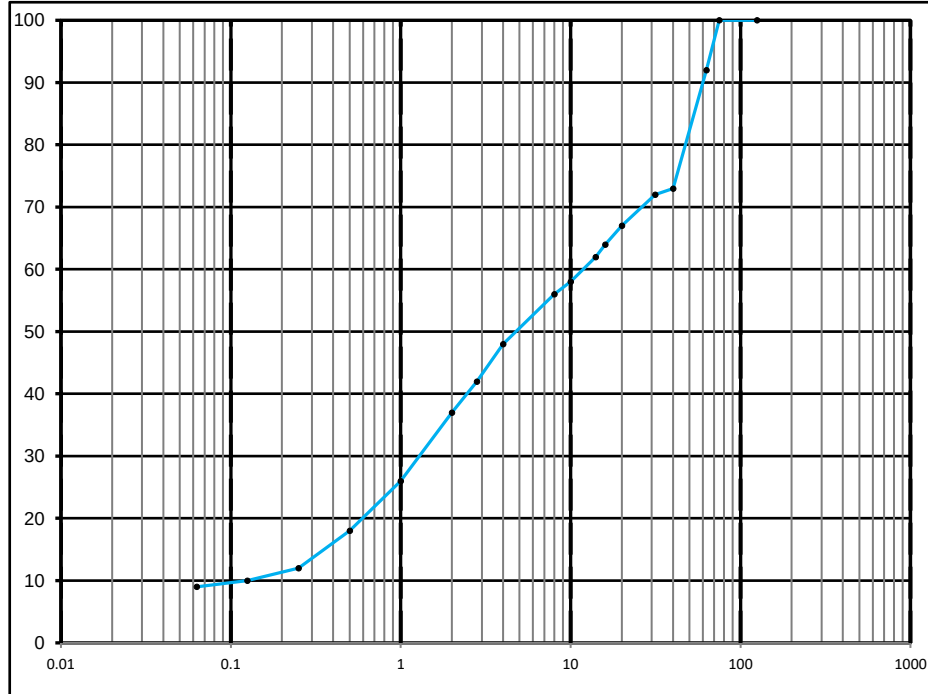
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S76311	Method of Sampling:	Unknown
Client Ref. No:	4 C K 2 -	Sampled By:	Client
Date and Time of Sampling:	Unknown		
Date of Receipt at Lab:	23/10/2018		
Date of Start of Test:	12/11/2018		
Sampling Location:	Former Llanwern Steelworks		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	92	
40.0 mm	73	
31.5 mm	72	
20.0 mm	67	
16.0 mm	64	
14.0 mm	62	
10.0 mm	58	
8.0 mm	56	
4.0 mm	48	
2.8 mm	42	
2.0 mm	37	
1.0 mm	26	
0.500 mm	18	
0.250 mm	12	
0.125 mm	10	
0.063 mm	9	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639892

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

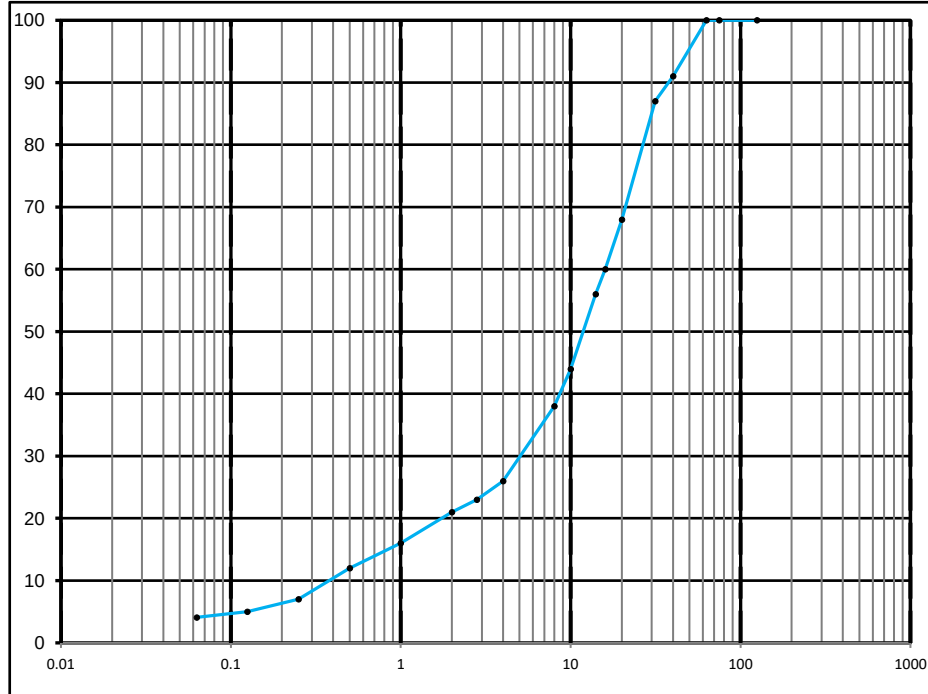
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E A7 - 1.5m	Sampled By:	Client
Date and Time of Sampling:	01/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E A7 - 1.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	91	
31.5 mm	87	
20.0 mm	68	
16.0 mm	60	
14.0 mm	56	
10.0 mm	44	
8.0 mm	38	
4.0 mm	26	
2.8 mm	23	
2.0 mm	21	
1.0 mm	16	
0.500 mm	12	
0.250 mm	7	
0.125 mm	5	
0.063 mm	4.1	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 January 2019
Test Report Ref: TR 639886

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

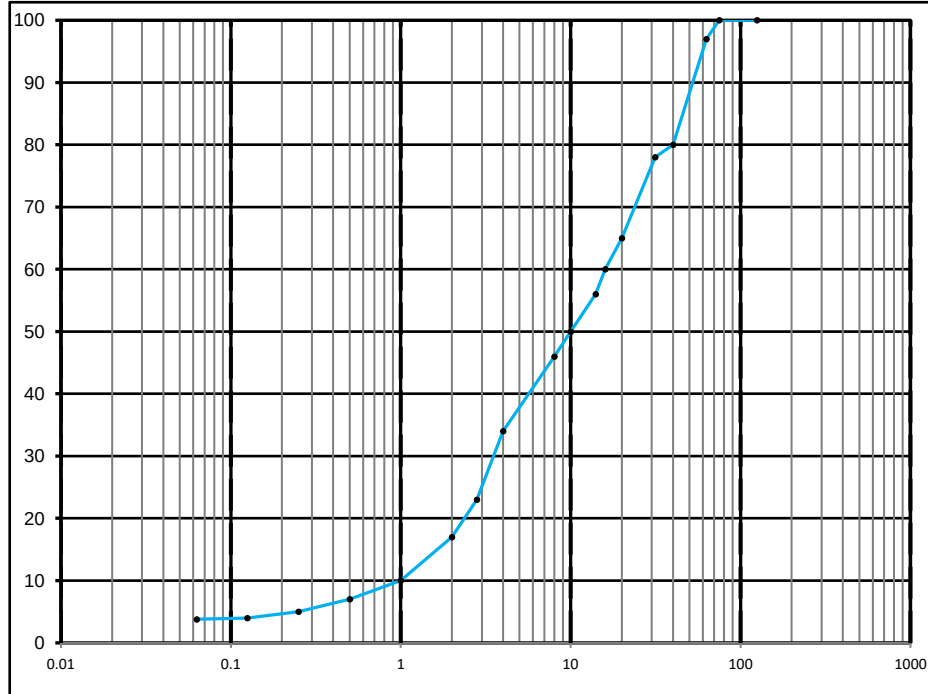
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E A8 - 1.5m	Sampled By:	Client
Date and Time of Sampling:	01/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E A8 - 1.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	97	
40.0 mm	80	
31.5 mm	78	
20.0 mm	65	
16.0 mm	60	
14.0 mm	56	
10.0 mm	50	
8.0 mm	46	
4.0 mm	34	
2.8 mm	23	
2.0 mm	17	
1.0 mm	10	
0.500 mm	7	
0.250 mm	5	
0.125 mm	4	
0.063 mm	3.8	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639902

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

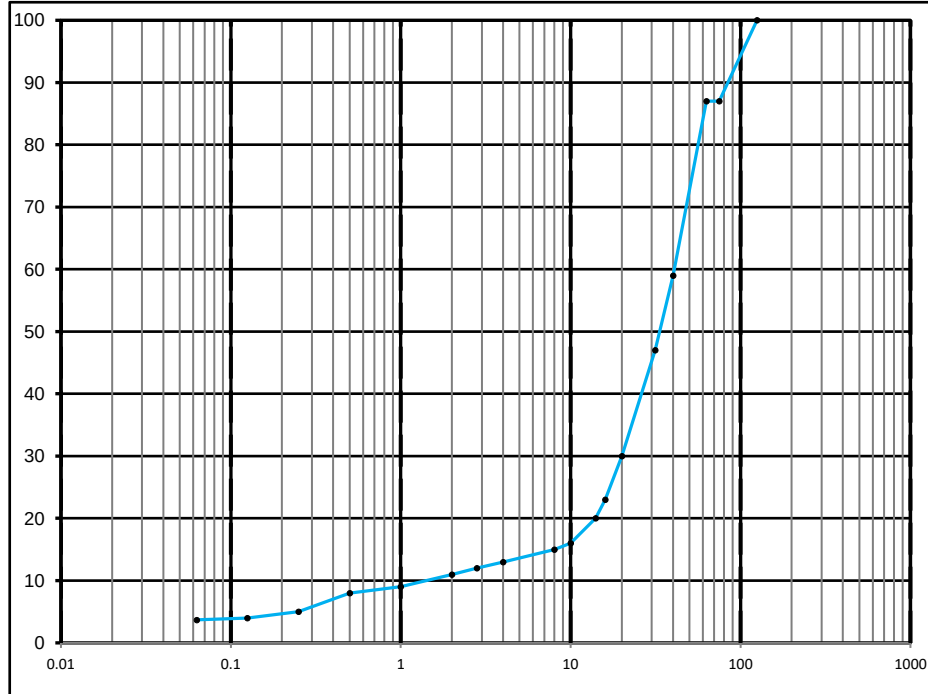
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E B4 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E B4 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	87	
63.0 mm	87	
40.0 mm	59	
31.5 mm	47	
20.0 mm	30	
16.0 mm	23	
14.0 mm	20	
10.0 mm	16	
8.0 mm	15	
4.0 mm	13	
2.8 mm	12	
2.0 mm	11	
1.0 mm	9	
0.500 mm	8	
0.250 mm	5	
0.125 mm	4	
0.063 mm	3.7	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639893

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

Contract: The Hawk Site

LABORATORY TEST REPORT

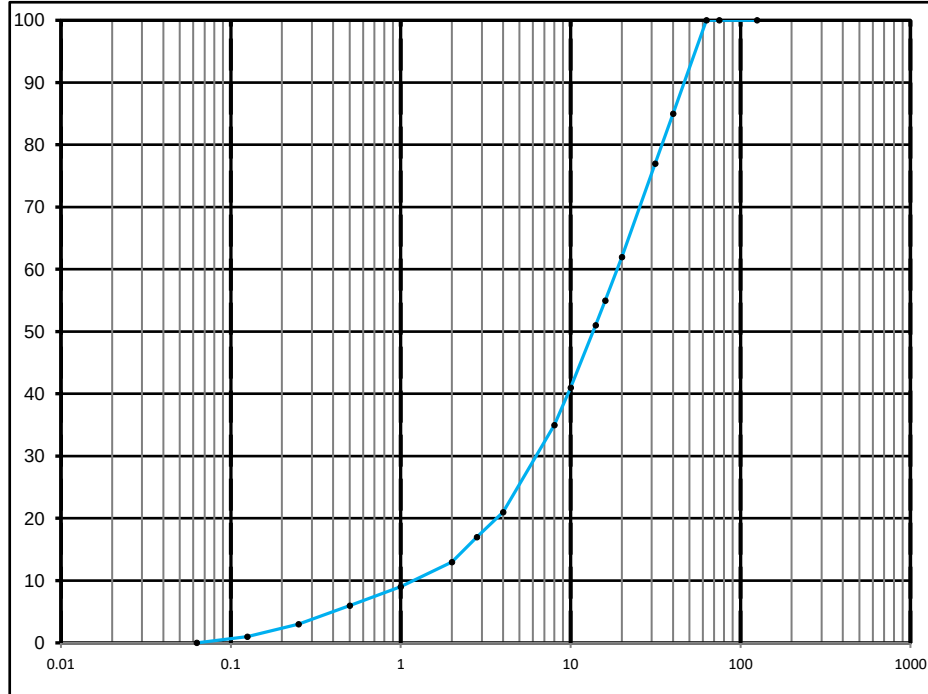
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E B7 - 0.5m	Sampled By:	Client
Date and Time of Sampling:	01/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E B7 - 0.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	85	
31.5 mm	77	
20.0 mm	62	
16.0 mm	55	
14.0 mm	51	
10.0 mm	41	
8.0 mm	35	
4.0 mm	21	
2.8 mm	17	
2.0 mm	13	
1.0 mm	9	
0.500 mm	6	
0.250 mm	3	
0.125 mm	1	
0.063 mm	0	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639897

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

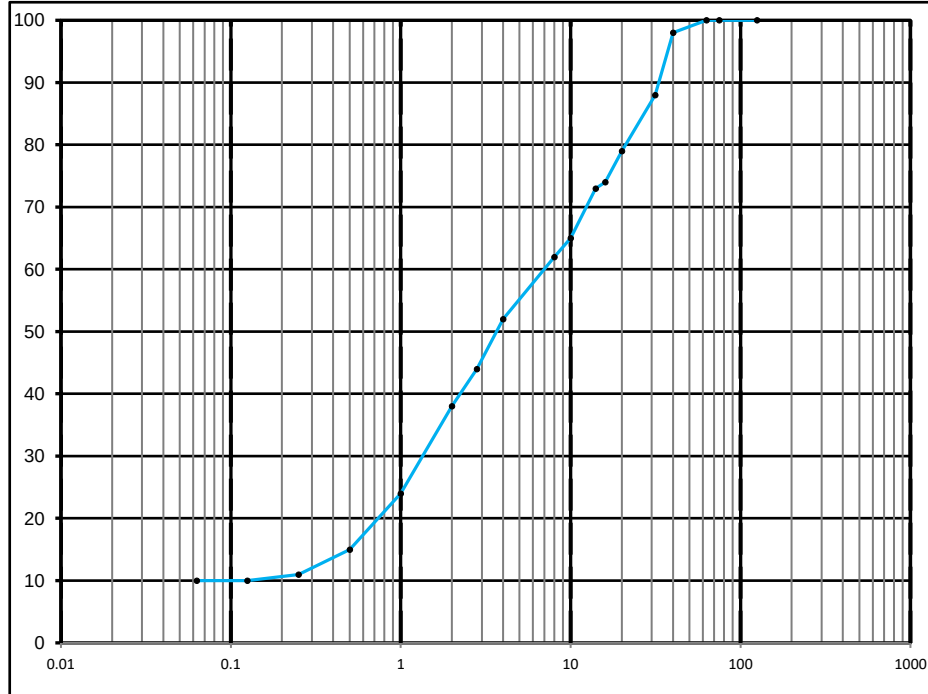
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E C1 - 0.3m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E C1 - 0.3m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	98	
31.5 mm	88	
20.0 mm	79	
16.0 mm	74	
14.0 mm	73	
10.0 mm	65	
8.0 mm	62	
4.0 mm	52	
2.8 mm	44	
2.0 mm	38	
1.0 mm	24	
0.500 mm	15	
0.250 mm	11	
0.125 mm	10	
0.063 mm	10	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639901

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

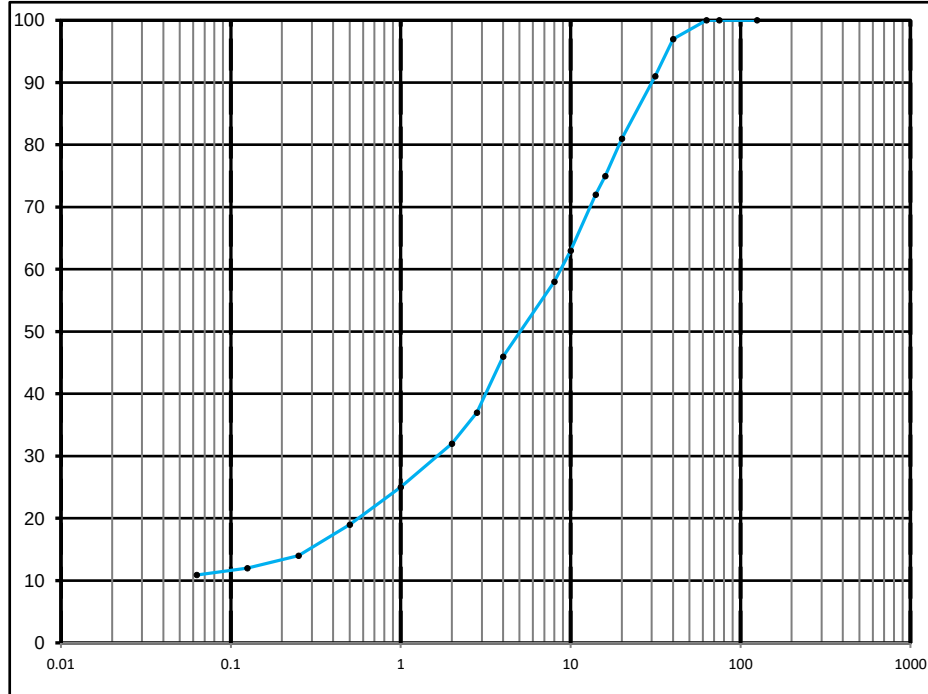
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E C2 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E C2 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	97	
31.5 mm	91	
20.0 mm	81	
16.0 mm	75	
14.0 mm	72	
10.0 mm	63	
8.0 mm	58	
4.0 mm	46	
2.8 mm	37	
2.0 mm	32	
1.0 mm	25	
0.500 mm	19	
0.250 mm	14	
0.125 mm	12	
0.063 mm	10.9	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639903

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

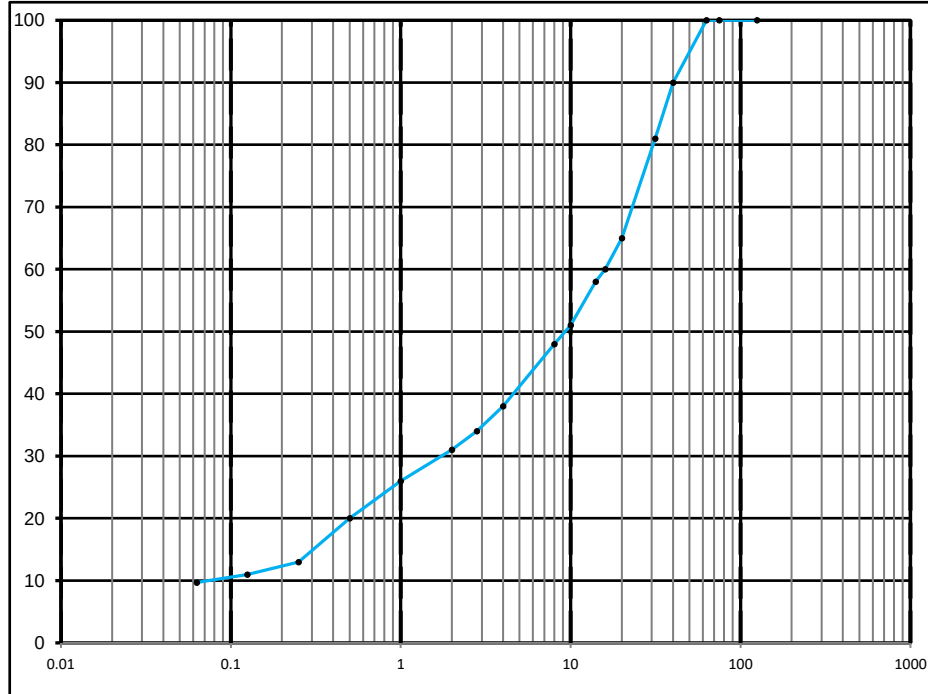
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E C4 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E C4 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	90	
31.5 mm	81	
20.0 mm	65	
16.0 mm	60	
14.0 mm	58	
10.0 mm	51	
8.0 mm	48	
4.0 mm	38	
2.8 mm	34	
2.0 mm	31	
1.0 mm	26	
0.500 mm	20	
0.250 mm	13	
0.125 mm	11	
0.063 mm	9.7	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 16 January 2019
Test Report Ref: TR 639895

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

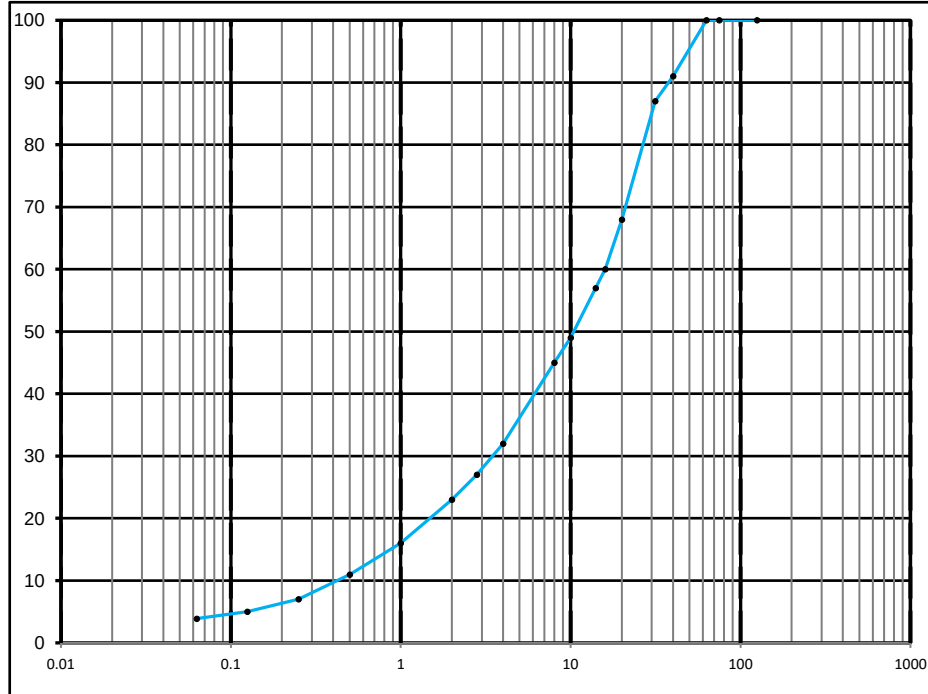
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E C7 - 1.5m	Sampled By:	Client
Date and Time of Sampling:	01/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E C7 - 1.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	91	
31.5 mm	87	
20.0 mm	68	
16.0 mm	60	
14.0 mm	57	
10.0 mm	49	
8.0 mm	45	
4.0 mm	32	
2.8 mm	27	
2.0 mm	23	
1.0 mm	16	
0.500 mm	11	
0.250 mm	7	
0.125 mm	5	
0.063 mm	3.9	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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B31 2UQ

Date: 03 January 2019
Test Report Ref: TR 639898

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

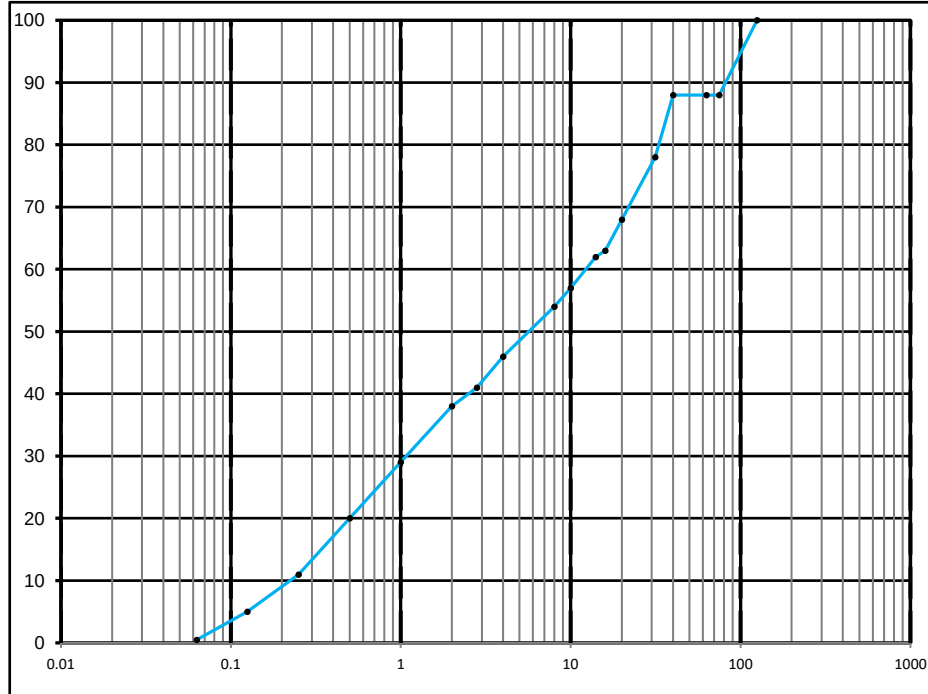
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E D1 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E D1 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	88	
63.0 mm	88	
40.0 mm	88	
31.5 mm	78	
20.0 mm	68	
16.0 mm	63	
14.0 mm	62	
10.0 mm	57	
8.0 mm	54	
4.0 mm	46	
2.8 mm	41	
2.0 mm	38	
1.0 mm	29	
0.500 mm	20	
0.250 mm	11	
0.125 mm	5	
0.063 mm	0.5	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639900

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

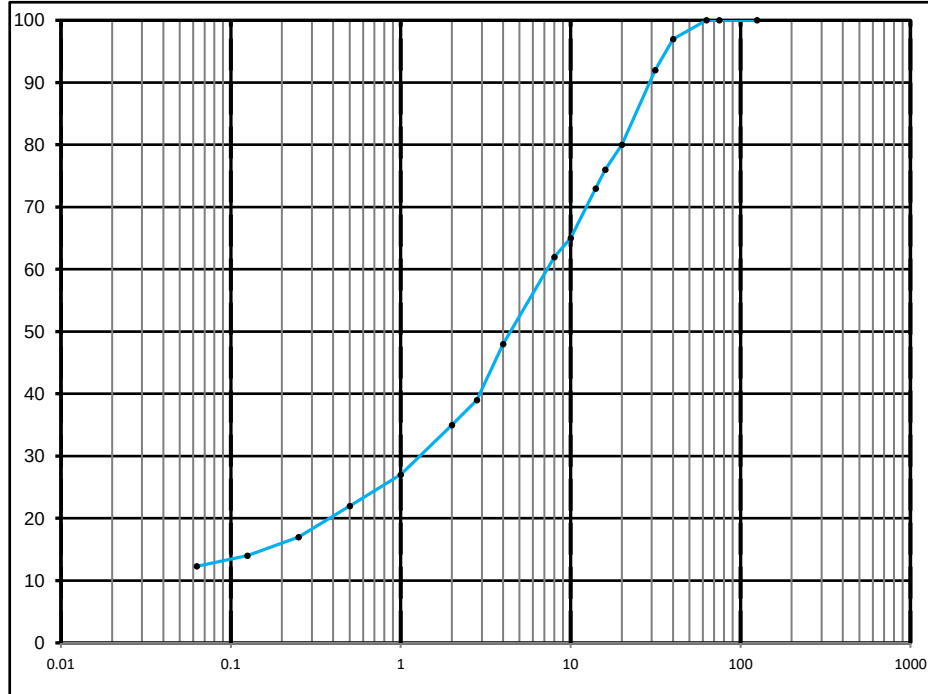
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E D2 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E D2 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	97	
31.5 mm	92	
20.0 mm	80	
16.0 mm	76	
14.0 mm	73	
10.0 mm	65	
8.0 mm	62	
4.0 mm	48	
2.8 mm	39	
2.0 mm	35	
1.0 mm	27	
0.500 mm	22	
0.250 mm	17	
0.125 mm	14	
0.063 mm	12.3	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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Date: 04 January 2019
Test Report Ref: TR 639904

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

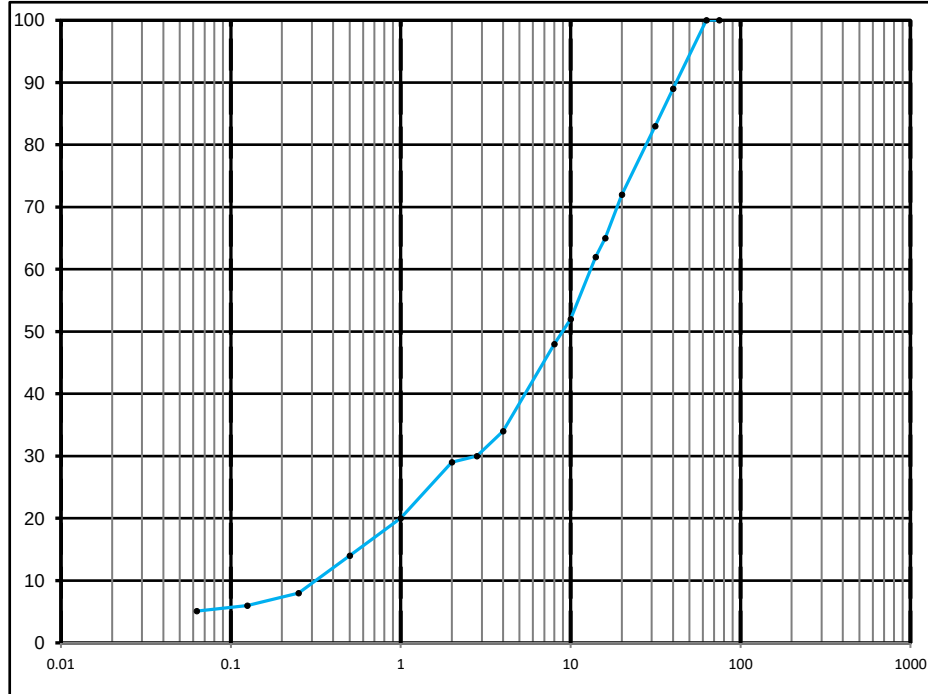
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E D4 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E D4 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	100
75.0 mm	100	100
63.0 mm	100	100
40.0 mm	89	
31.5 mm	83	
20.0 mm	72	
16.0 mm	65	
14.0 mm	62	
10.0 mm	52	
8.0 mm	48	
4.0 mm	34	
2.8 mm	30	
2.0 mm	29	
1.0 mm	20	
0.500 mm	14	
0.250 mm	8	
0.125 mm	6	
0.063 mm	5.1	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639891

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

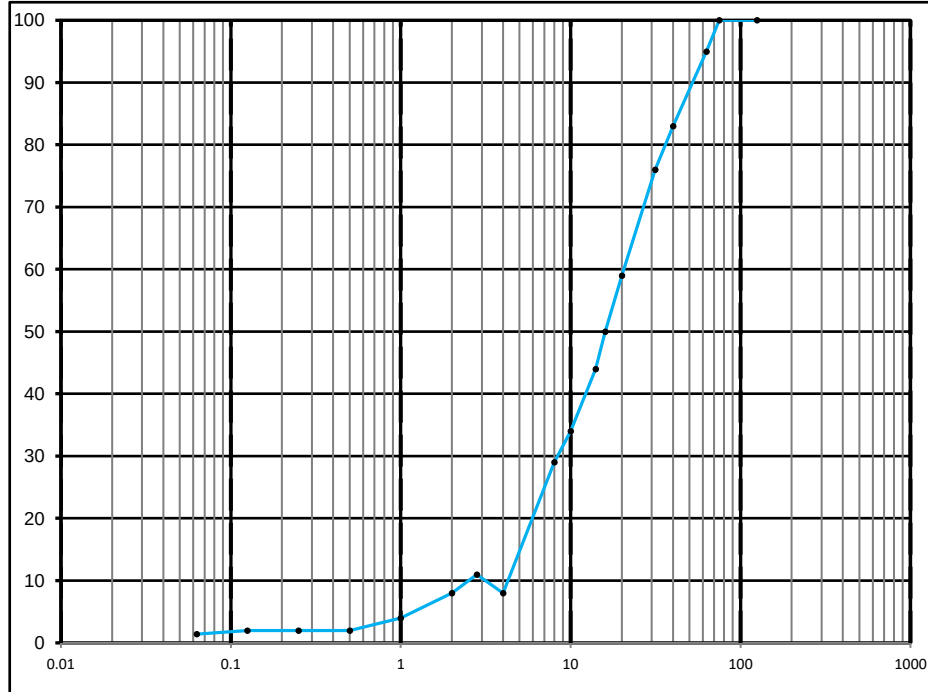
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E D7 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	01/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E D7 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	95	
40.0 mm	83	
31.5 mm	76	
20.0 mm	59	
16.0 mm	50	
14.0 mm	44	
10.0 mm	34	
8.0 mm	29	
4.0 mm	8	
2.8 mm	11	
2.0 mm	8	
1.0 mm	4	
0.500 mm	2	
0.250 mm	2	
0.125 mm	2	
0.063 mm	1.4	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 January 2019
Test Report Ref: TR 639896

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

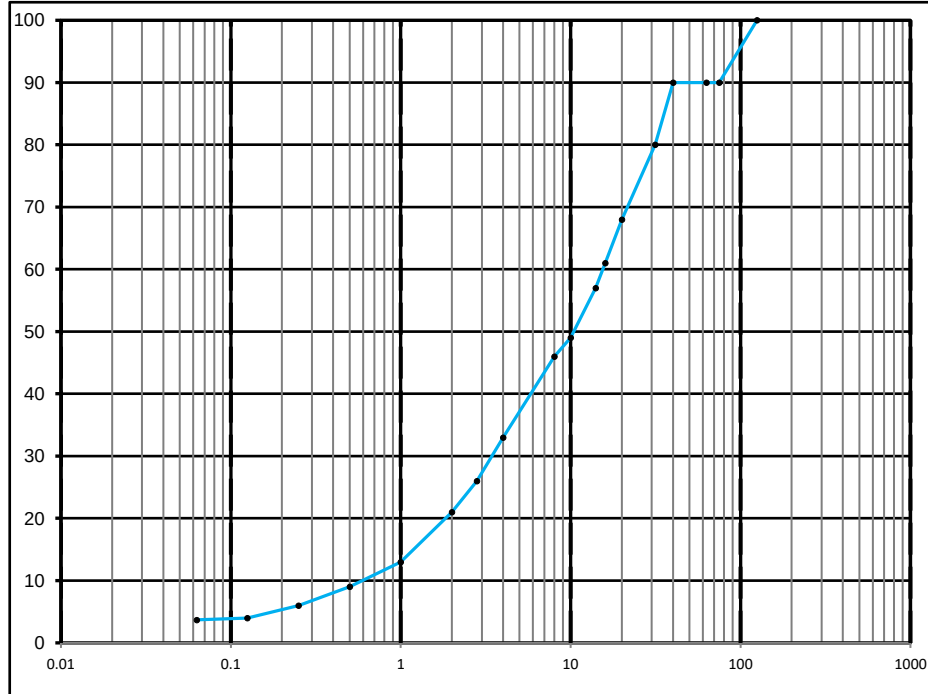
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E E1 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	01/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E E1 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	90	
63.0 mm	90	
40.0 mm	90	
31.5 mm	80	
20.0 mm	68	
16.0 mm	61	
14.0 mm	57	
10.0 mm	49	
8.0 mm	46	
4.0 mm	33	
2.8 mm	26	
2.0 mm	21	
1.0 mm	13	
0.500 mm	9	
0.250 mm	6	
0.125 mm	4	
0.063 mm	3.7	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
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Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639899

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

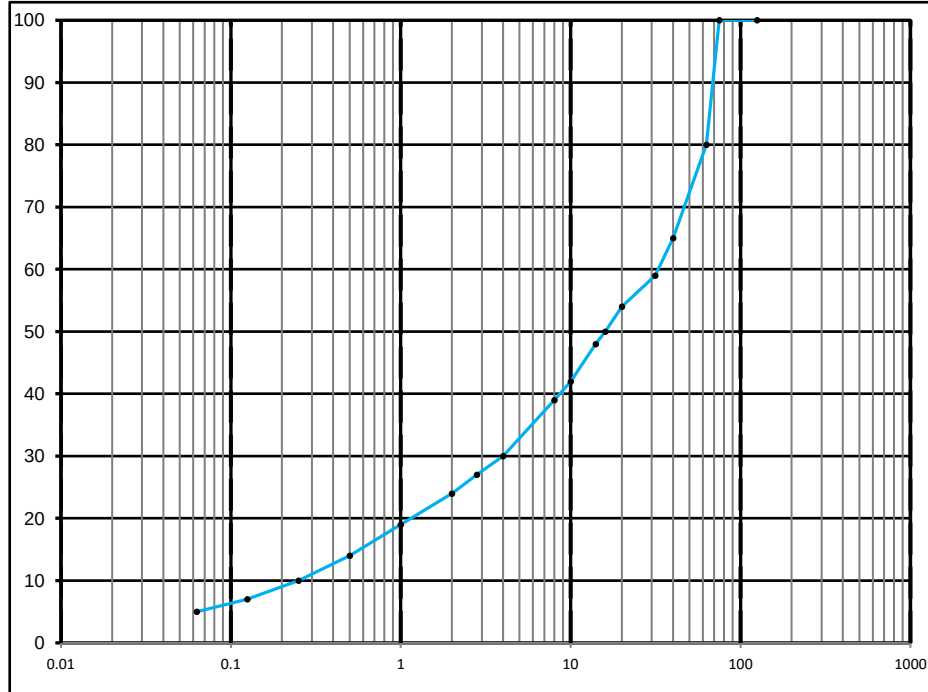
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E E2 - 1.5m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E E2 - 1.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	80	
40.0 mm	65	
31.5 mm	59	
20.0 mm	54	
16.0 mm	50	
14.0 mm	48	
10.0 mm	42	
8.0 mm	39	
4.0 mm	30	
2.8 mm	27	
2.0 mm	24	
1.0 mm	19	
0.500 mm	14	
0.250 mm	10	
0.125 mm	7	
0.063 mm	5	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639905

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

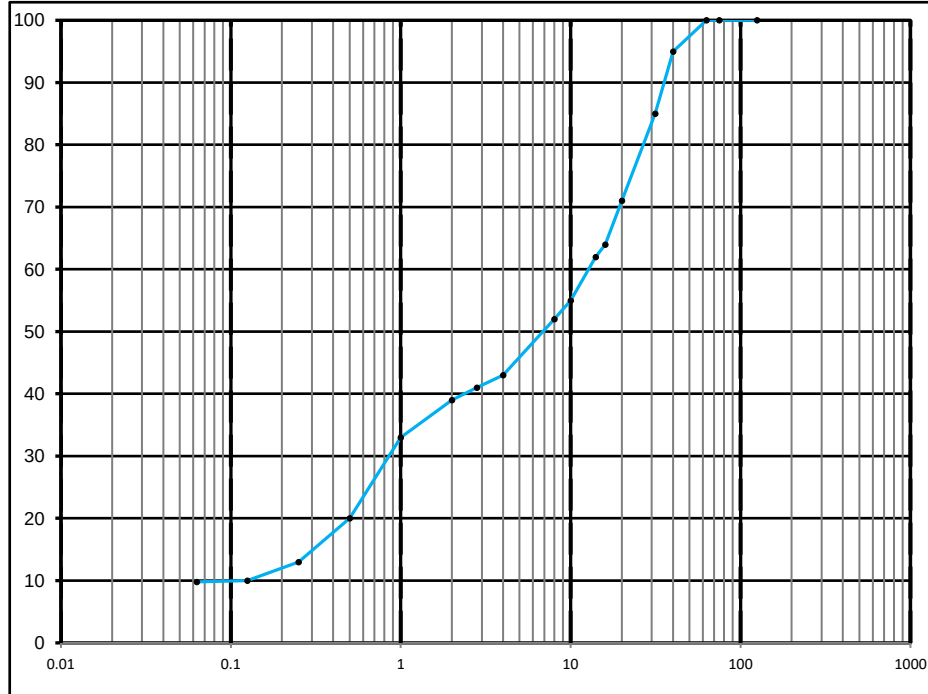
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E E4 - 1.5m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E E4 - 1.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	95	
31.5 mm	85	
20.0 mm	71	
16.0 mm	64	
14.0 mm	62	
10.0 mm	55	
8.0 mm	52	
4.0 mm	43	
2.8 mm	41	
2.0 mm	39	
1.0 mm	33	
0.500 mm	20	
0.250 mm	13	
0.125 mm	10	
0.063 mm	9.8	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639909

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

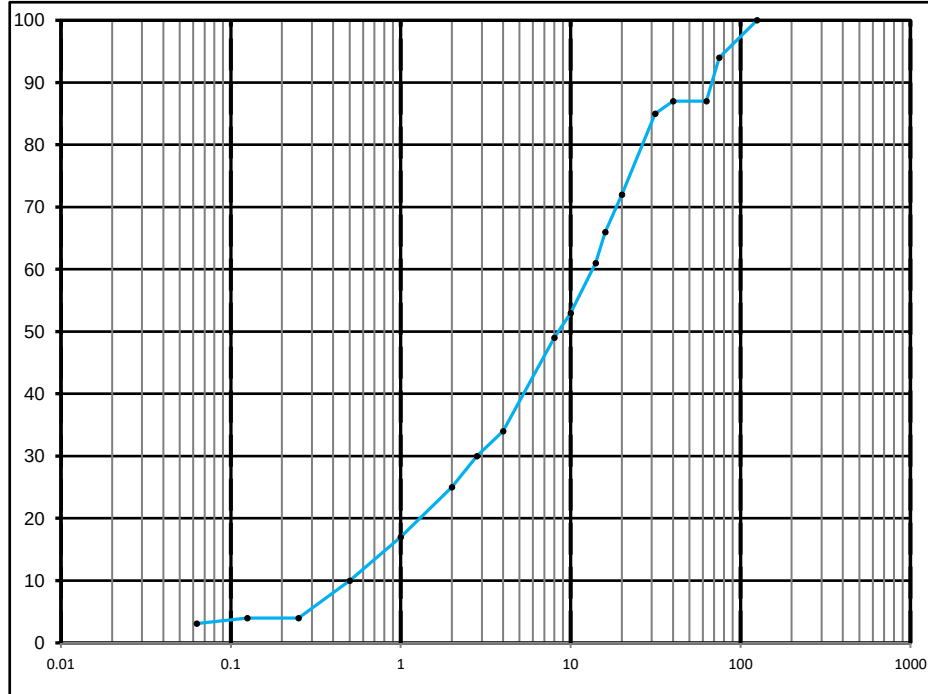
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E E5 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E E5 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	94	
63.0 mm	87	
40.0 mm	87	
31.5 mm	85	
20.0 mm	72	
16.0 mm	66	
14.0 mm	61	
10.0 mm	53	
8.0 mm	49	
4.0 mm	34	
2.8 mm	30	
2.0 mm	25	
1.0 mm	17	
0.500 mm	10	
0.250 mm	4	
0.125 mm	4	
0.063 mm	3.1	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
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Birmingham
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Date: 04 January 2019
Test Report Ref: TR 639910

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

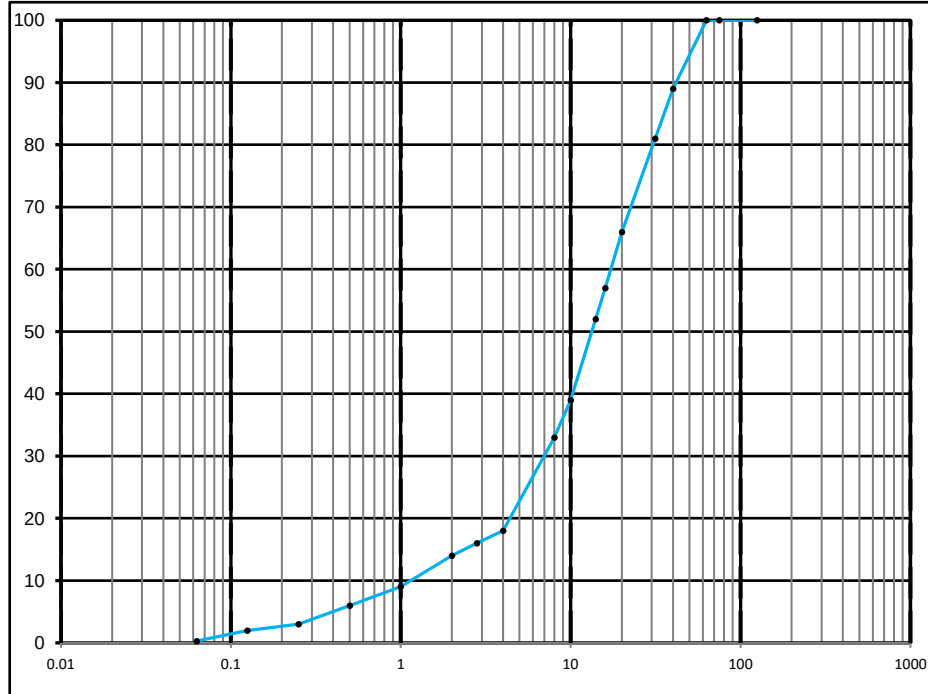
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E E6 - 0.7m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E E6 - 0.7m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	89	
31.5 mm	81	
20.0 mm	66	
16.0 mm	57	
14.0 mm	52	
10.0 mm	39	
8.0 mm	33	
4.0 mm	18	
2.8 mm	16	
2.0 mm	14	
1.0 mm	9	
0.500 mm	6	
0.250 mm	3	
0.125 mm	2	
0.063 mm	0.3	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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Birmingham
B31 2UQ

Date: 03 January 2019
Test Report Ref: TR 639912

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

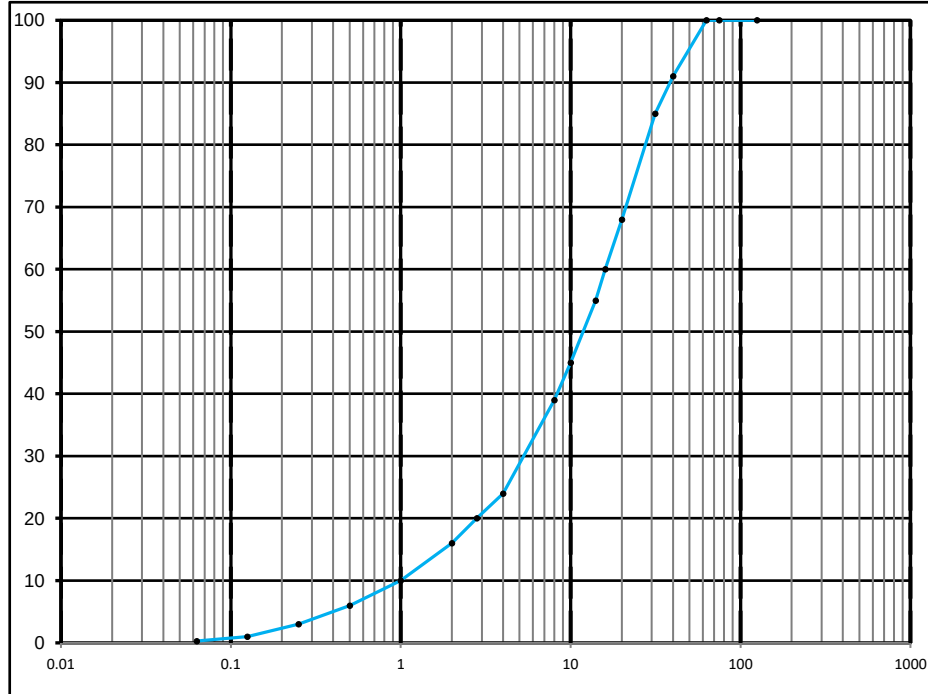
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E E7 - 0.8m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E E7 - 0.8m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	91	
31.5 mm	85	
20.0 mm	68	
16.0 mm	60	
14.0 mm	55	
10.0 mm	45	
8.0 mm	39	
4.0 mm	24	
2.8 mm	20	
2.0 mm	16	
1.0 mm	10	
0.500 mm	6	
0.250 mm	3	
0.125 mm	1	
0.063 mm	0.3	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639911

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

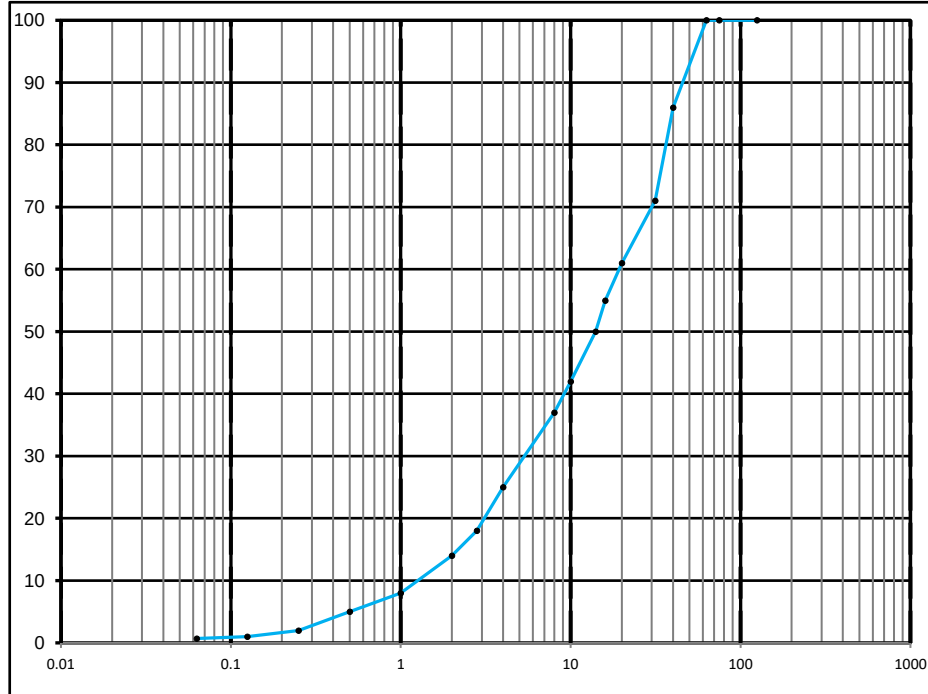
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4E F6 - 0.4m	Sampled By:	Client
Date and Time of Sampling:	29-30/10/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4E F6 - 0.4m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	86	
31.5 mm	71	
20.0 mm	61	
16.0 mm	55	
14.0 mm	50	
10.0 mm	42	
8.0 mm	37	
4.0 mm	25	
2.8 mm	18	
2.0 mm	14	
1.0 mm	8	
0.500 mm	5	
0.250 mm	2	
0.125 mm	1	
0.063 mm	0.7	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639928

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

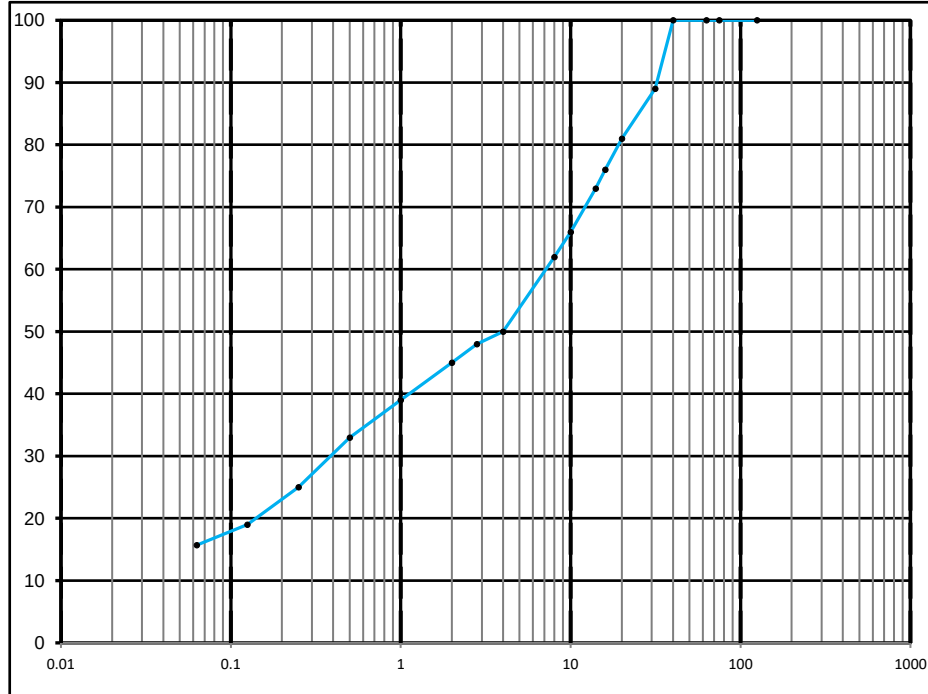
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4G A4 - 0.5m	Sampled By:	Client
Date and Time of Sampling:	25-26/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4G A4 - 0.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	100	
31.5 mm	89	
20.0 mm	81	
16.0 mm	76	
14.0 mm	73	
10.0 mm	66	
8.0 mm	62	
4.0 mm	50	
2.8 mm	48	
2.0 mm	45	
1.0 mm	39	
0.500 mm	33	
0.250 mm	25	
0.125 mm	19	
0.063 mm	15.7	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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Birmingham
B31 2UQ

Date: 03 January 2019
Test Report Ref: TR 639923

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

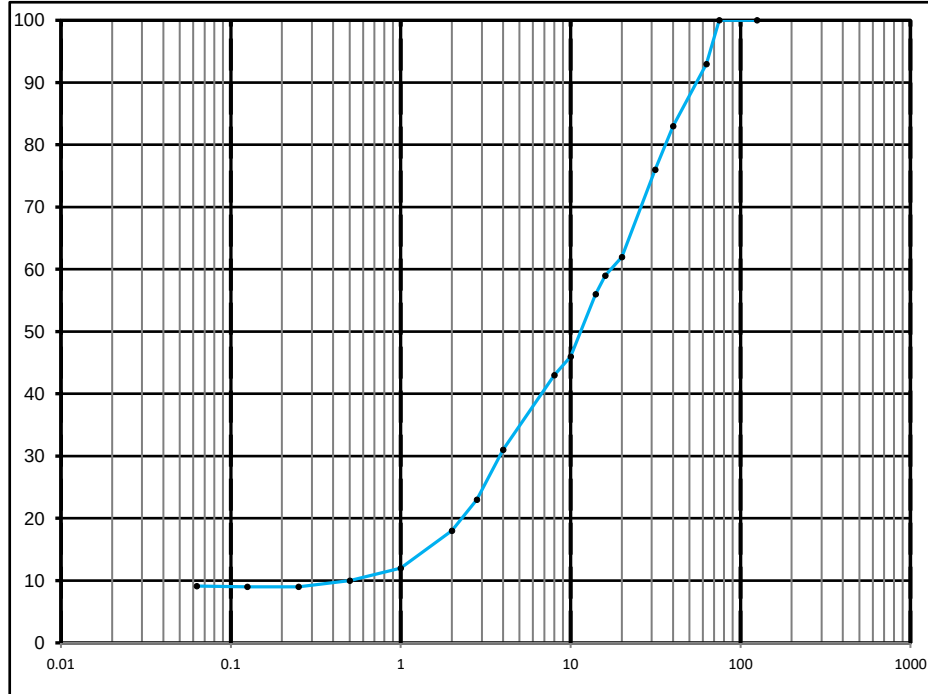
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4G A6 - 0.5m	Sampled By:	Client
Date and Time of Sampling:	25-26/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4G A6 - 0.5m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	93	
40.0 mm	83	
31.5 mm	76	
20.0 mm	62	
16.0 mm	59	
14.0 mm	56	
10.0 mm	46	
8.0 mm	43	
4.0 mm	31	
2.8 mm	23	
2.0 mm	18	
1.0 mm	12	
0.500 mm	10	
0.250 mm	9	
0.125 mm	9	
0.063 mm	9.1	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 640143

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

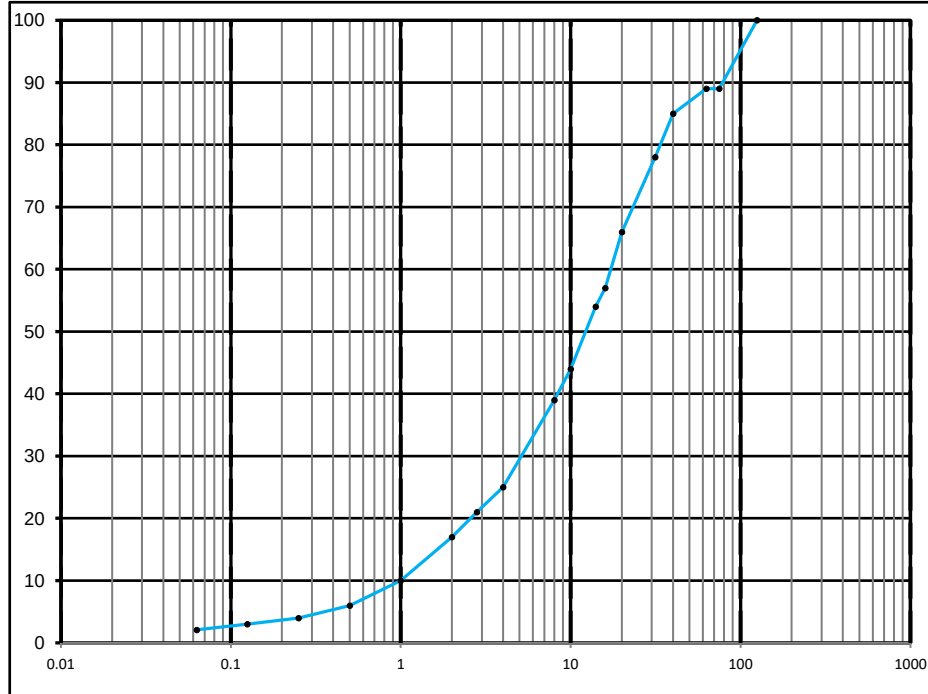
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4G B5 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	25-26/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4G B5 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	89	
63.0 mm	89	
40.0 mm	85	
31.5 mm	78	
20.0 mm	66	
16.0 mm	57	
14.0 mm	54	
10.0 mm	44	
8.0 mm	39	
4.0 mm	25	
2.8 mm	21	
2.0 mm	17	
1.0 mm	10	
0.500 mm	6	
0.250 mm	4	
0.125 mm	3	
0.063 mm	2.1	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

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Date: 04 January 2019
Test Report Ref: TR 639922

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

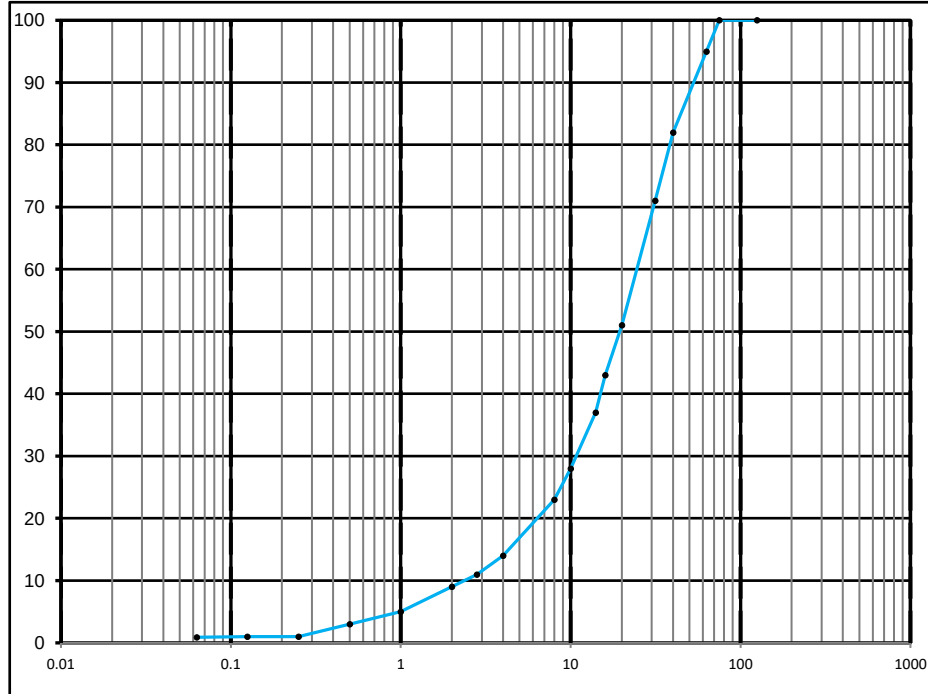
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4G B6 - 1.0m	Sampled By:	Client
Date and Time of Sampling:	25-26/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4G B6 - 1.0m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	95	
40.0 mm	82	
31.5 mm	71	
20.0 mm	51	
16.0 mm	43	
14.0 mm	37	
10.0 mm	28	
8.0 mm	23	
4.0 mm	14	
2.8 mm	11	
2.0 mm	9	
1.0 mm	5	
0.500 mm	3	
0.250 mm	1	
0.125 mm	1	
0.063 mm	0.9	

Comments:

None

Report checked and approved by:

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Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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B31 2UQ

Date: 04 January 2019
Test Report Ref: TR 639927

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

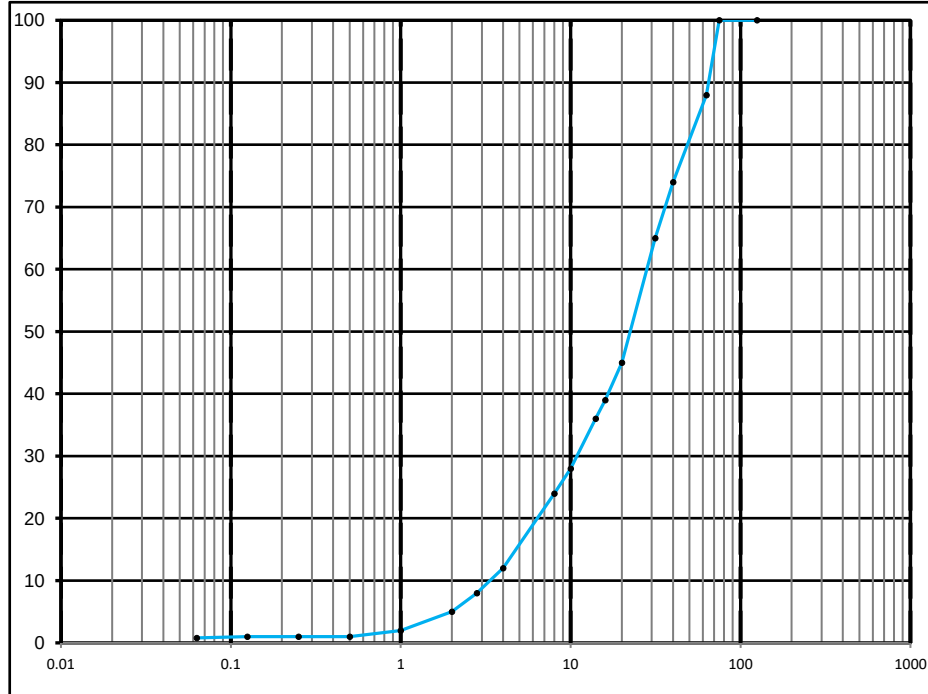
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4G B7 - 0.7m	Sampled By:	Client
Date and Time of Sampling:	25-26/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4G B7 - 0.7m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	88	
40.0 mm	74	
31.5 mm	65	
20.0 mm	45	
16.0 mm	39	
14.0 mm	36	
10.0 mm	28	
8.0 mm	24	
4.0 mm	12	
2.8 mm	8	
2.0 mm	5	
1.0 mm	2	
0.500 mm	1	
0.250 mm	1	
0.125 mm	1	
0.063 mm	0.8	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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Date: 03 January 2019
Test Report Ref: TR 639926

Order No: Bacs-Former Llanwern Steelworks

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Contract: The Hawk Site

LABORATORY TEST REPORT

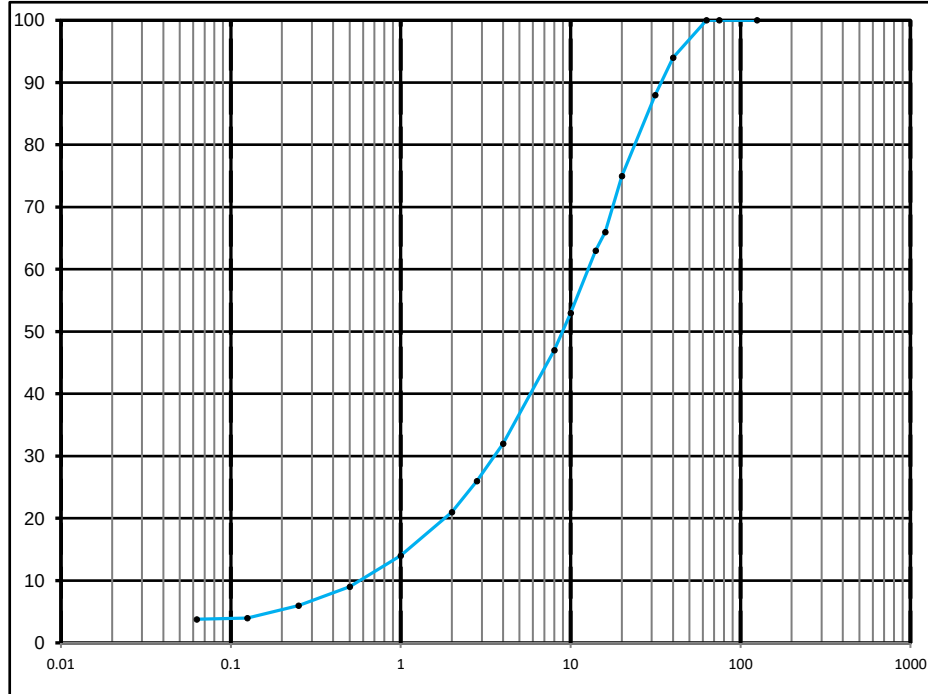
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S77023	Method of Sampling:	Unknown
Client Ref. No:	4G B8 - 0.8m	Sampled By:	Client
Date and Time of Sampling:	25-26/11/2018		
Date of Receipt at Lab:	28/11/2018		
Date of Start of Test:	12/12/2018		
Sampling Location:	4G B8 - 0.8m		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	94	
31.5 mm	88	
20.0 mm	75	
16.0 mm	66	
14.0 mm	63	
10.0 mm	53	
8.0 mm	47	
4.0 mm	32	
2.8 mm	26	
2.0 mm	21	
1.0 mm	14	
0.500 mm	9	
0.250 mm	6	
0.125 mm	4	
0.063 mm	3.8	

Comments:

None

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
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B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630497

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

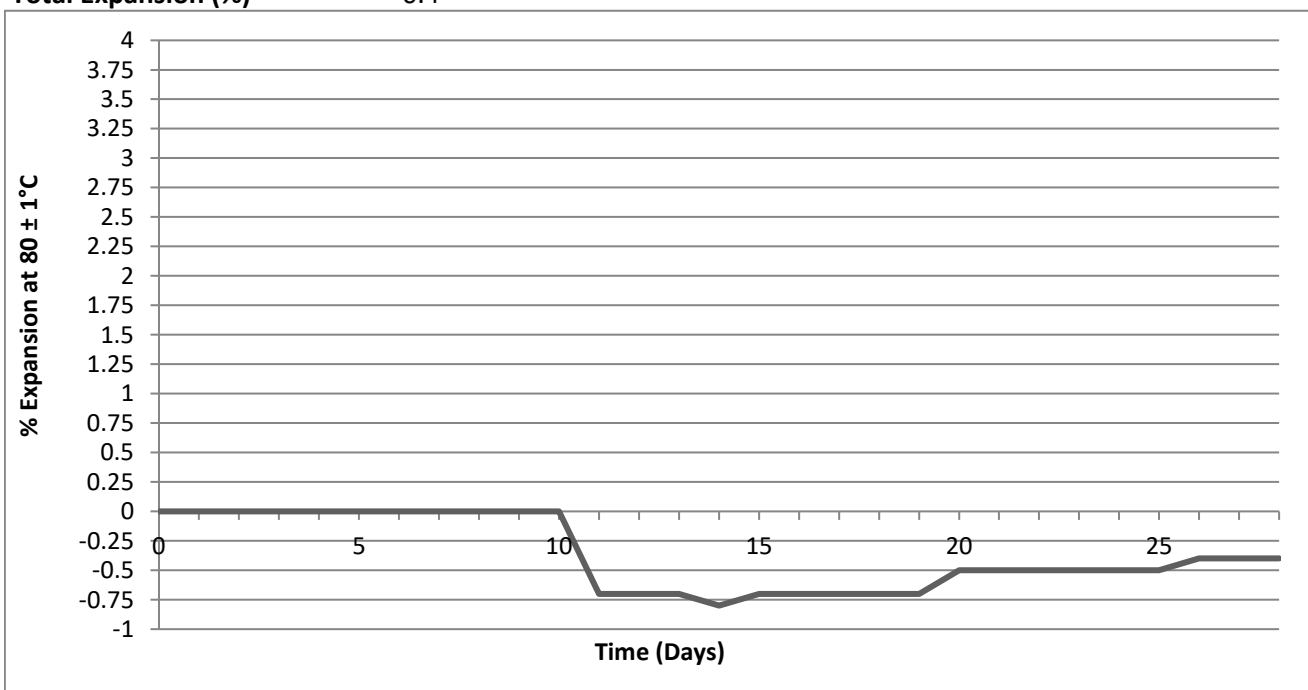
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CG4 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = -0.4



Comments:

Material crushed to pass 20mm

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 27 November 2018
Test Report Ref: TR 628663

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

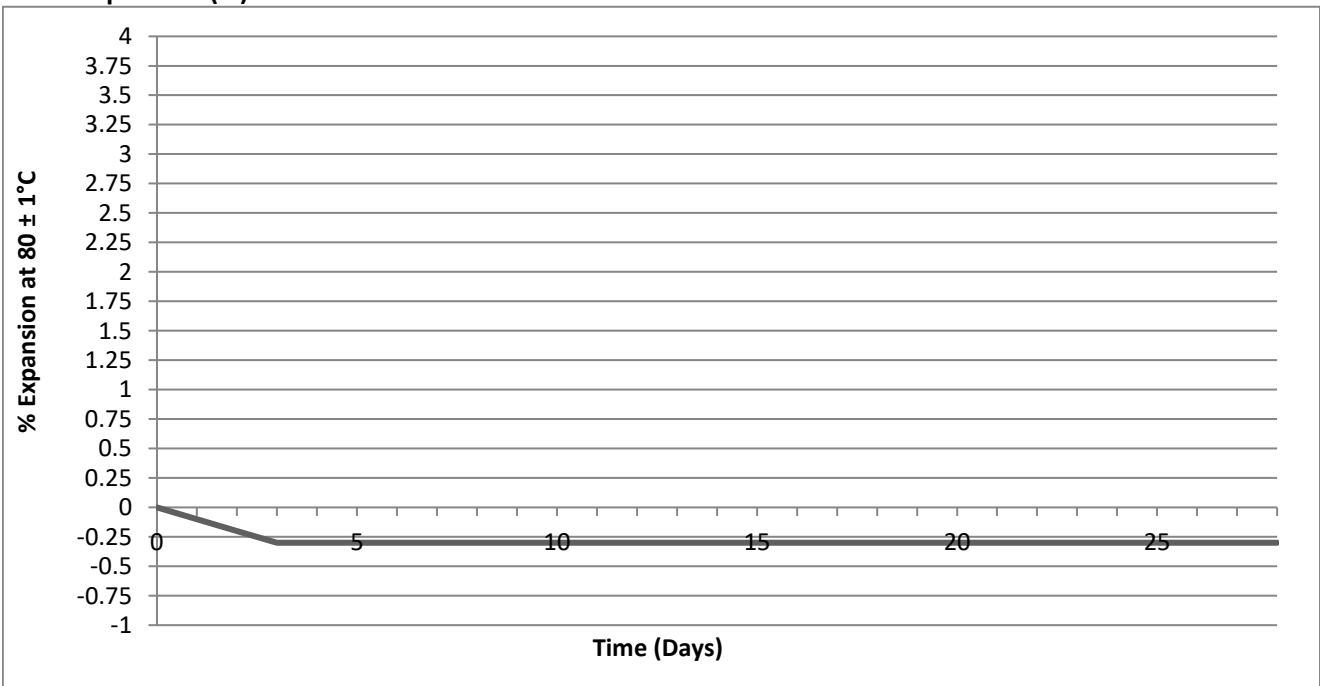
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76088
Client Ref. No:	4 C G 5
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	15/10/2018
Date of Start of Test:	18/10/2018
Sampling Location:	Phase 4C 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = -0.3



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
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B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630498

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

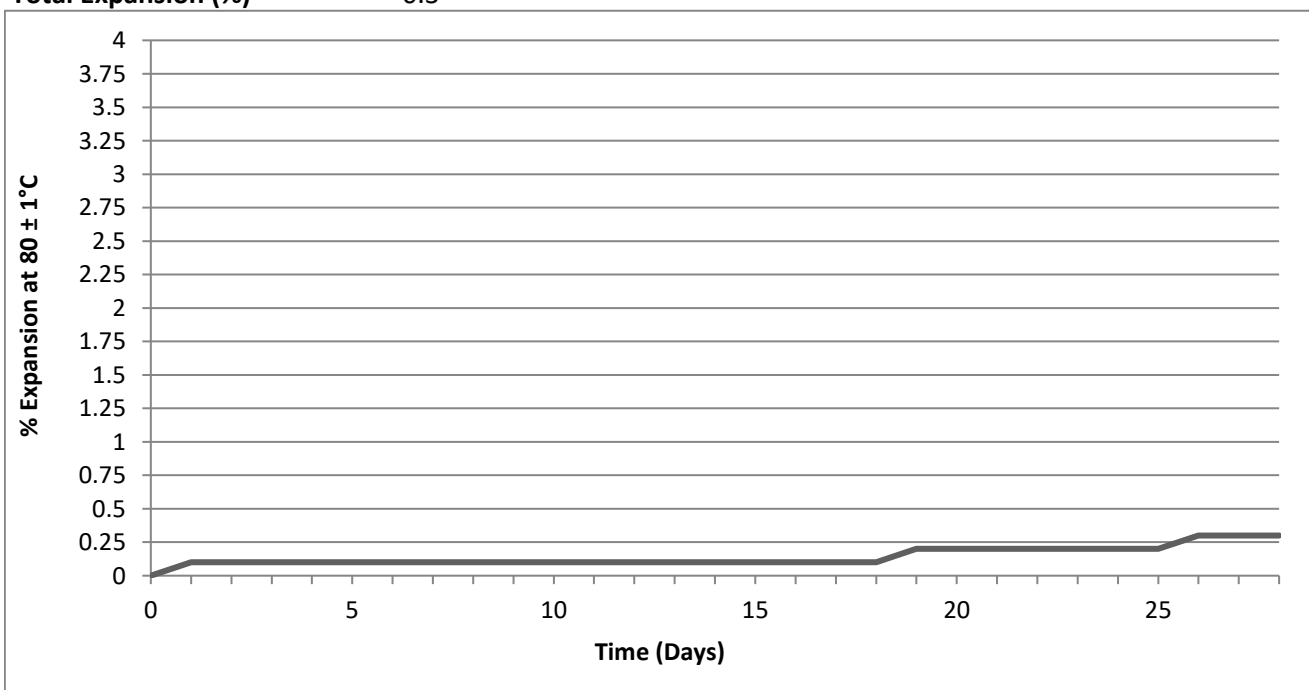
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH1 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.3



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630505

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

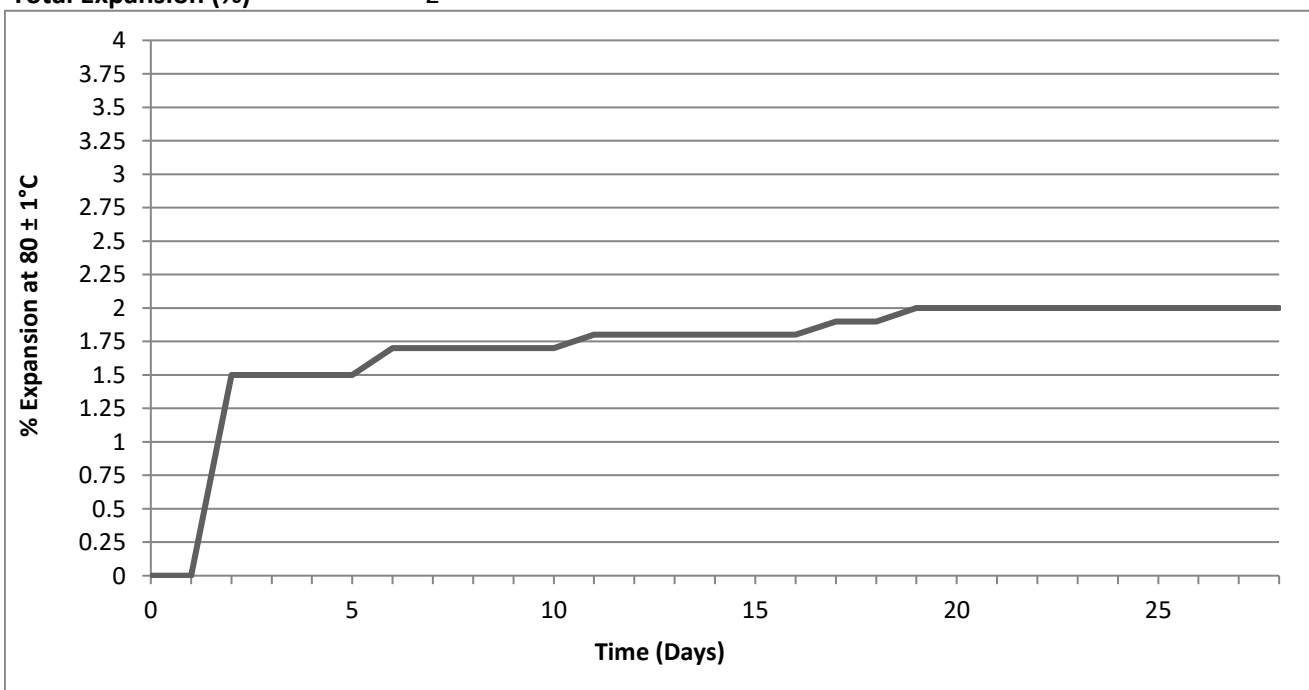
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH2 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2108
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 2



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630502

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

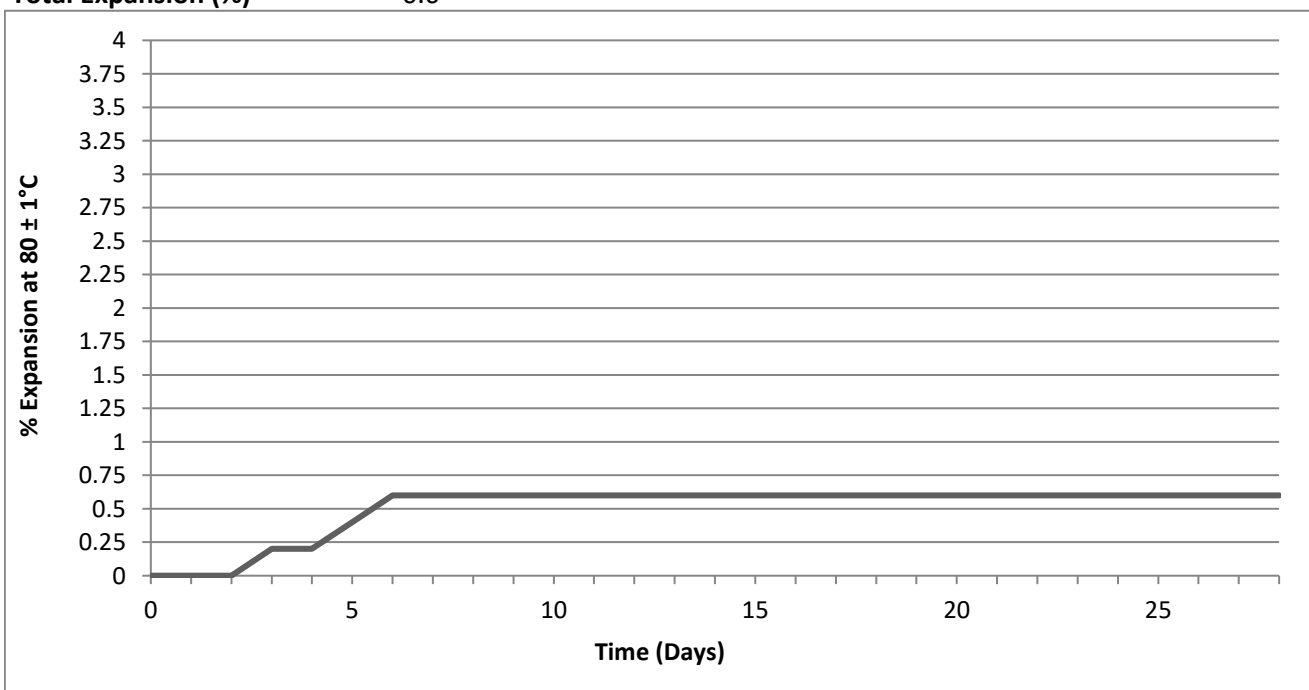
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH4 - 1.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.6



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630501

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

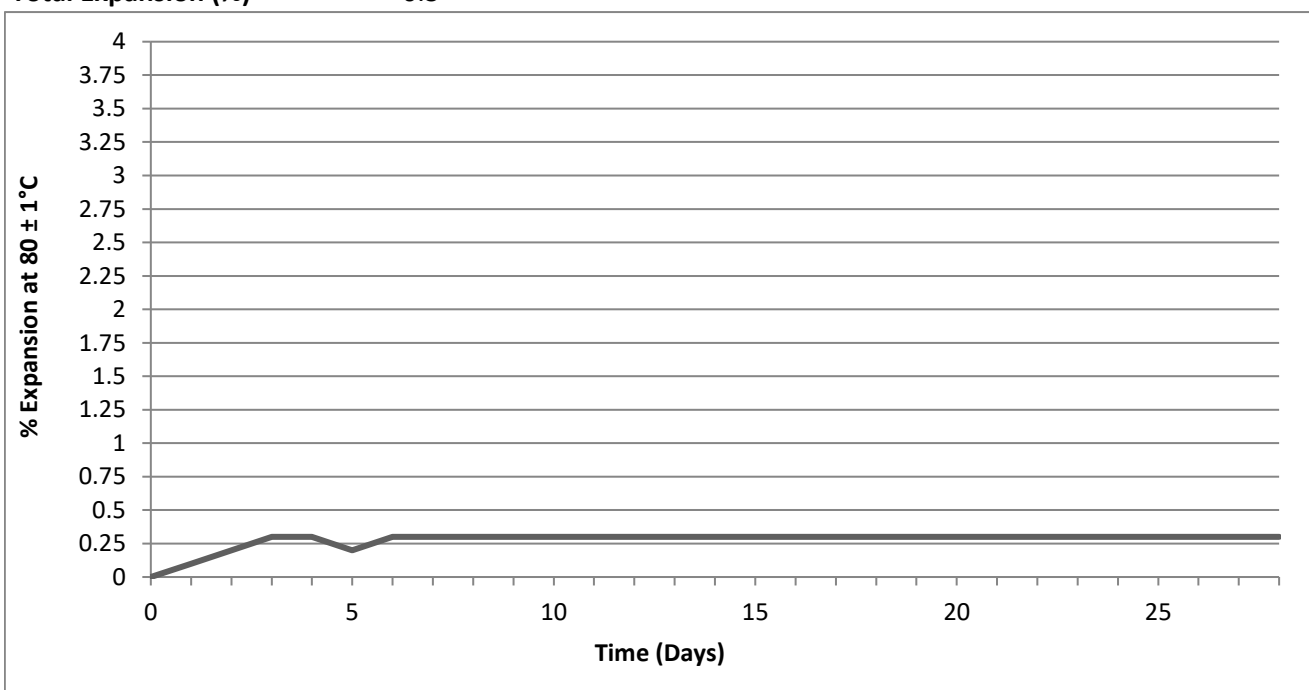
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CH5 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.3



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 27 November 2018
Test Report Ref: TR 628653

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

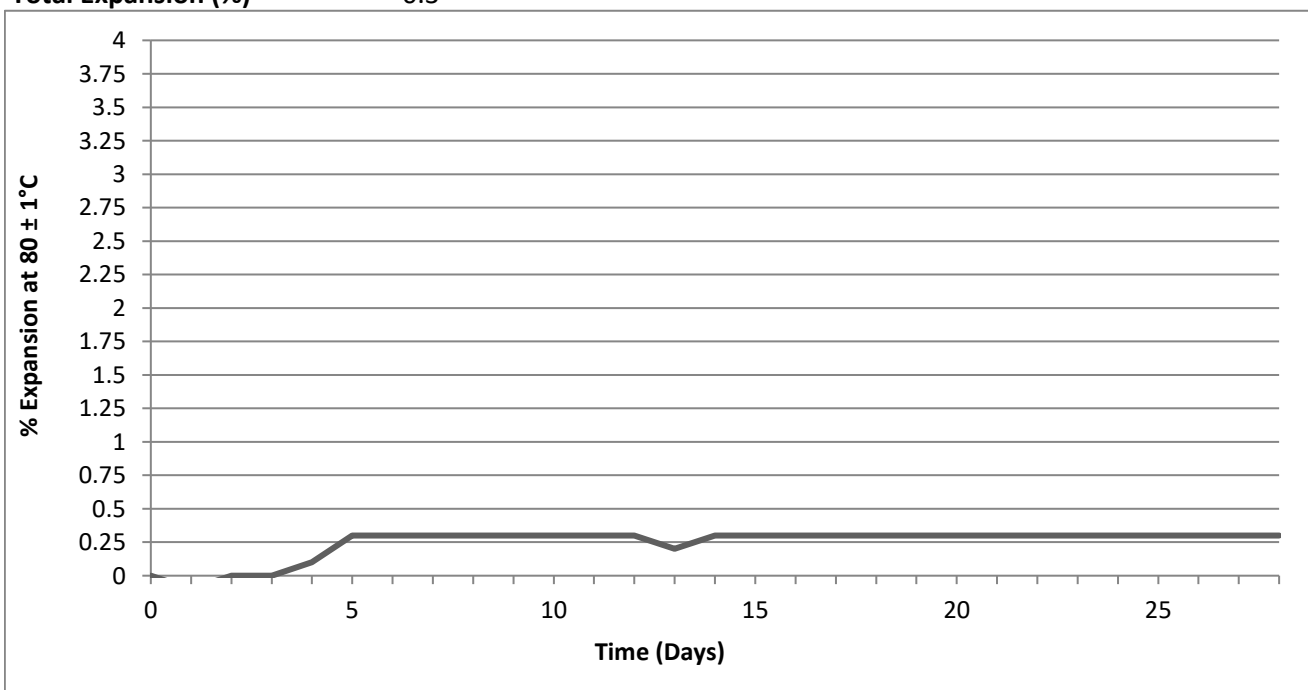
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76088
Client Ref. No:	4 C H 6
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	15/10/2018
Date of Start of Test:	18/10/2018
Sampling Location:	Phase 4C 0.5m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.3



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
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B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630504

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

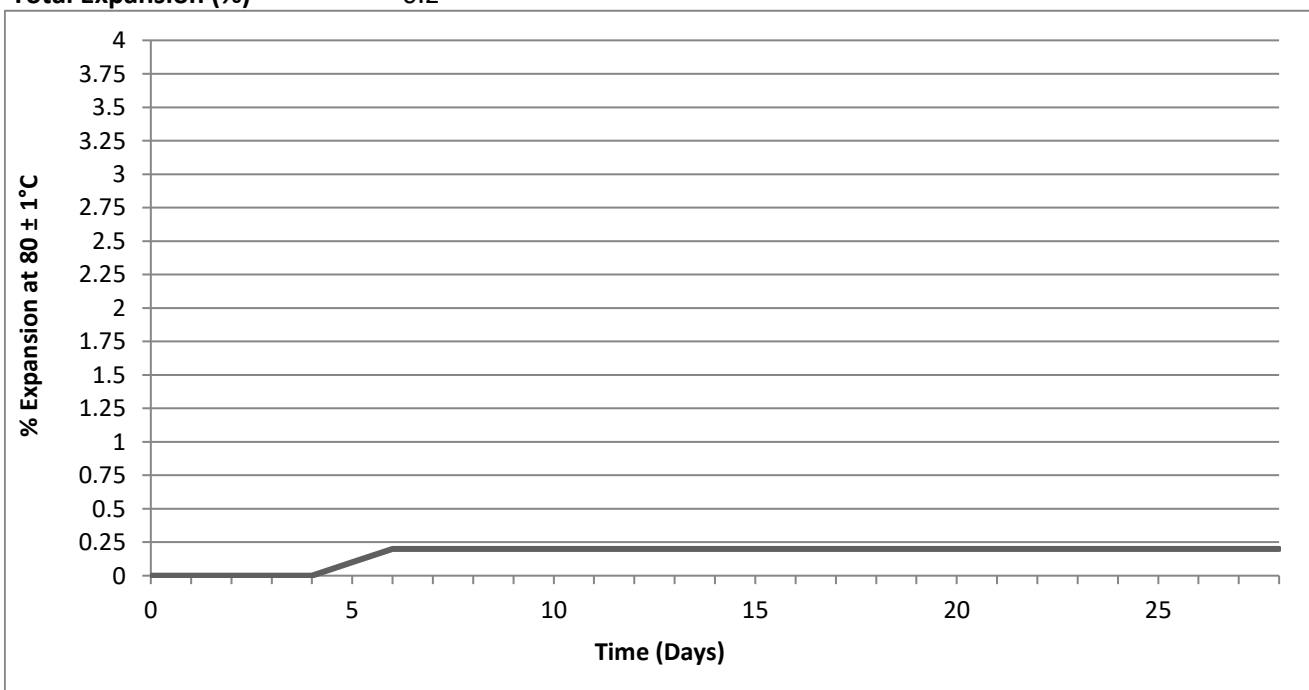
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI1 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.2



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
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B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630503

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

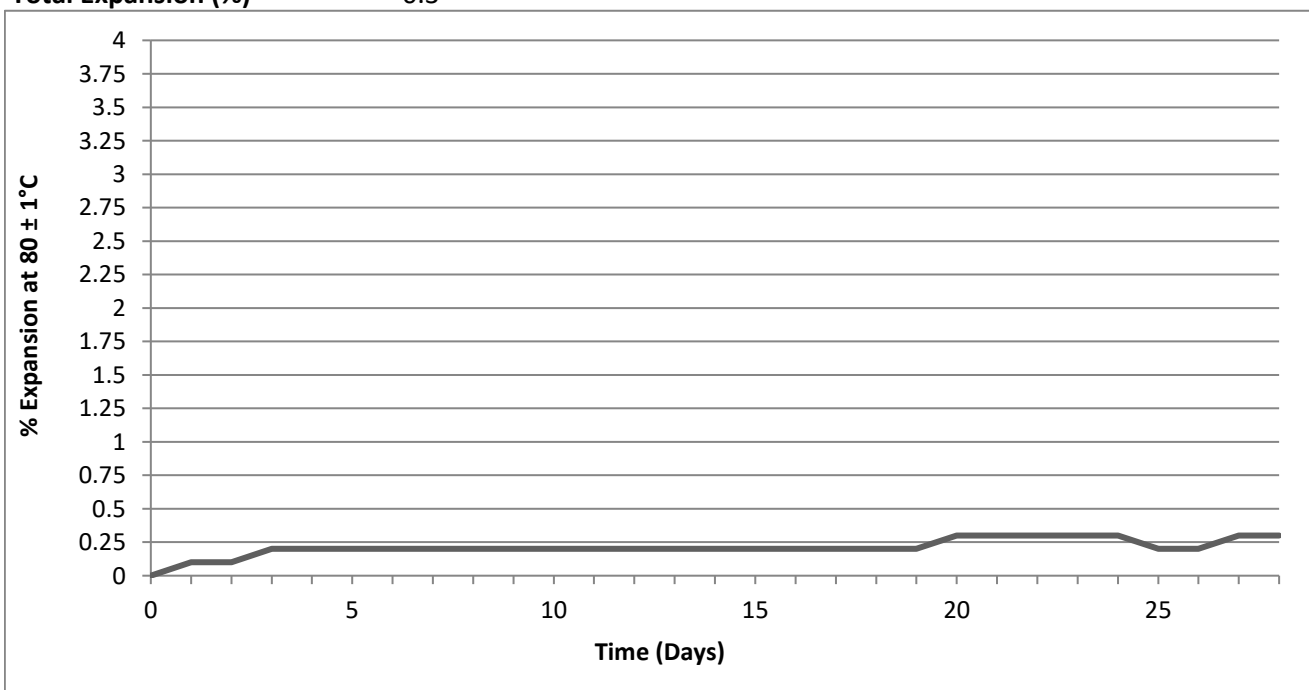
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI2 - 1.0
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.3



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630499

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

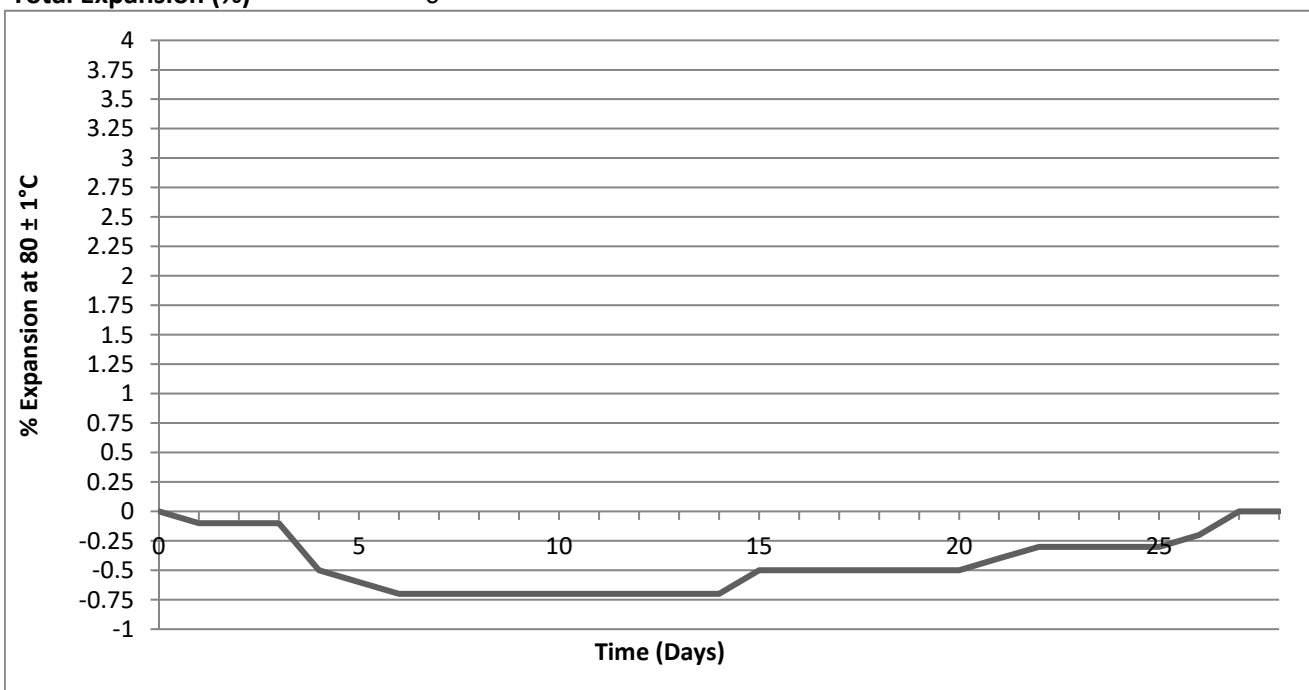
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI3 - 0.8
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 04 December 2018
Test Report Ref: TR 630500

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

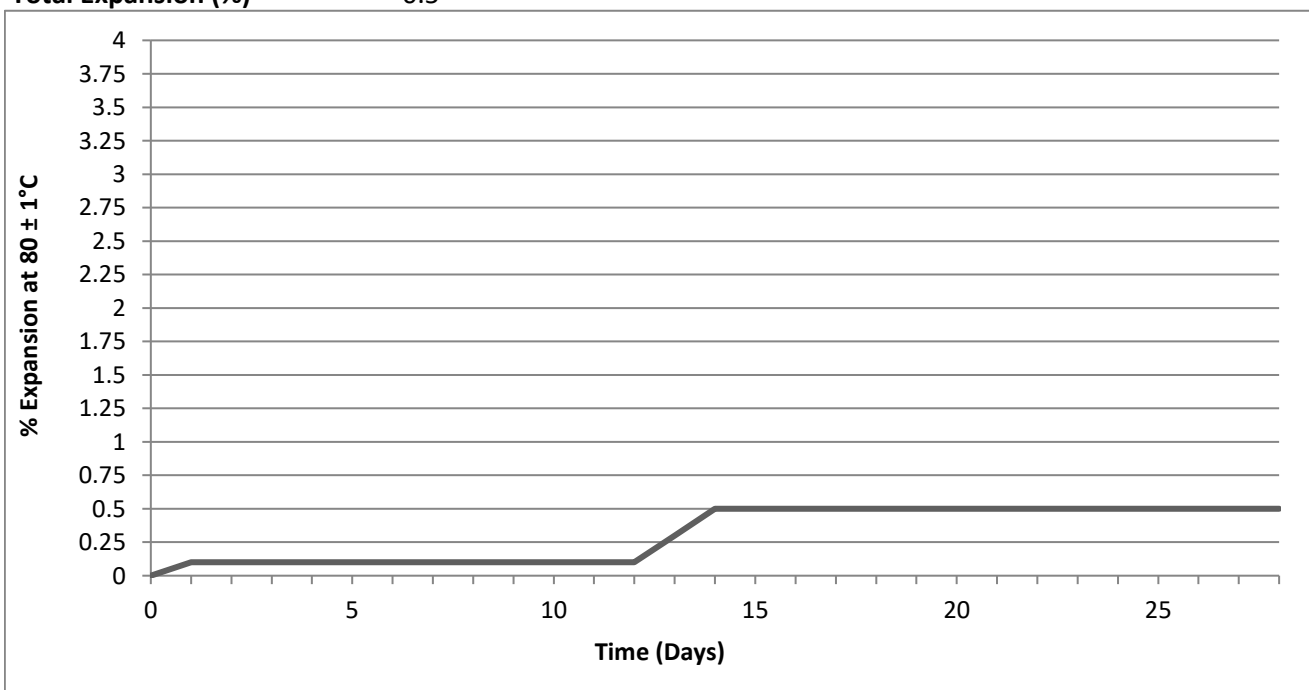
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76201
Client Ref. No:	4CI4 - 0.5
Date and Time of Sampling:	15/10/2018
Date of Receipt at Lab:	18/10/2018
Date of Start of Test:	29/10/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.5



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 13 February 2019
Test Report Ref: TR 632213

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

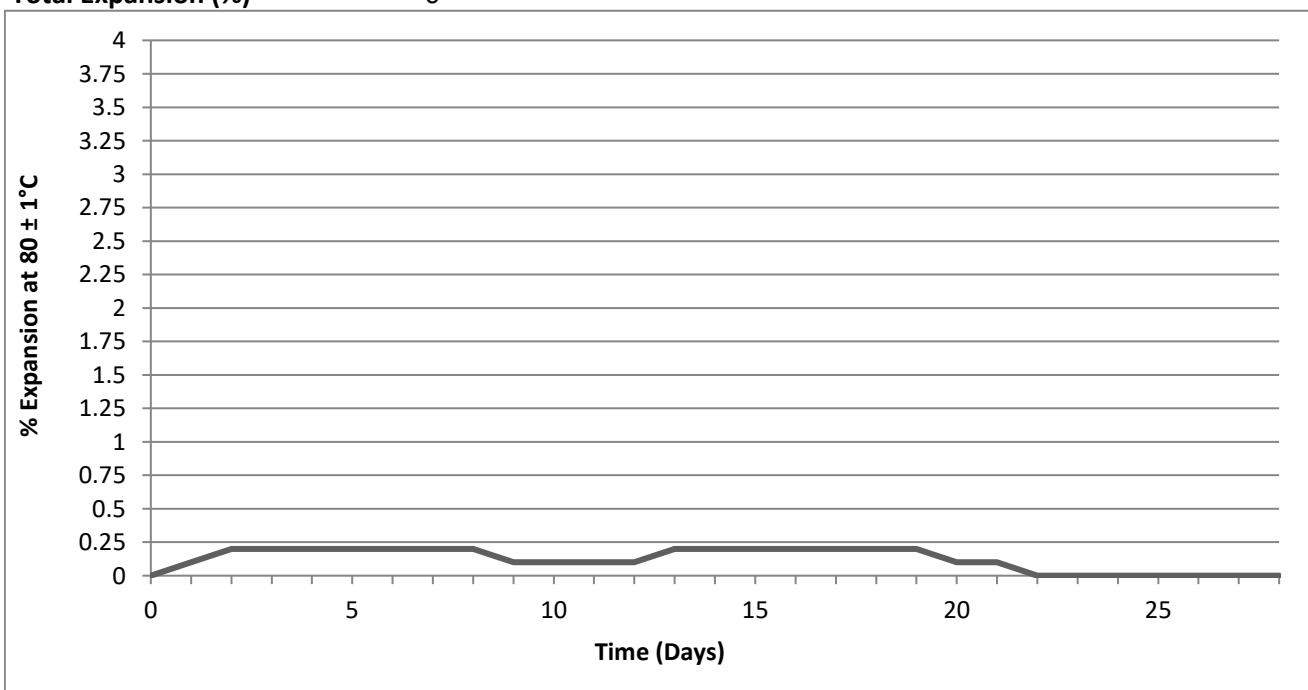
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C I 5 - 0.75m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	16/01/2019
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 13 February 2019
Test Report Ref: TR 632209

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

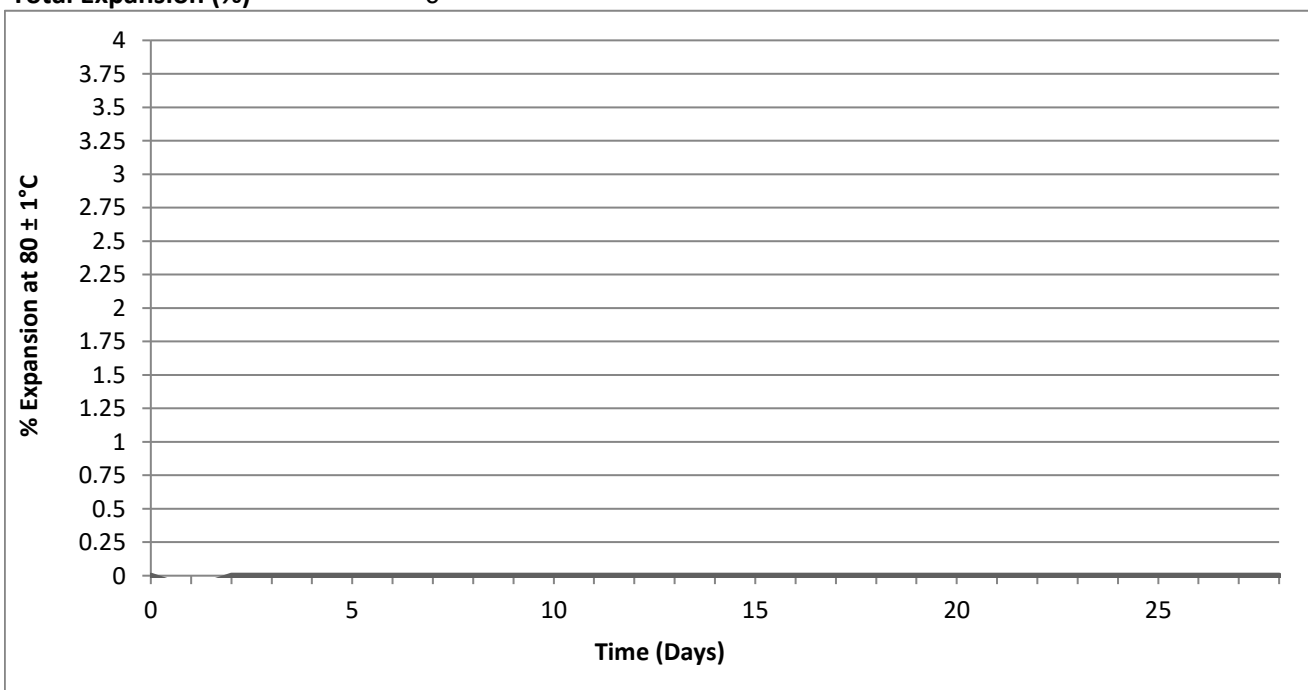
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C I 7 - 0.50m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	16/01/2019
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 07 January 2019
Test Report Ref: TR 632216

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

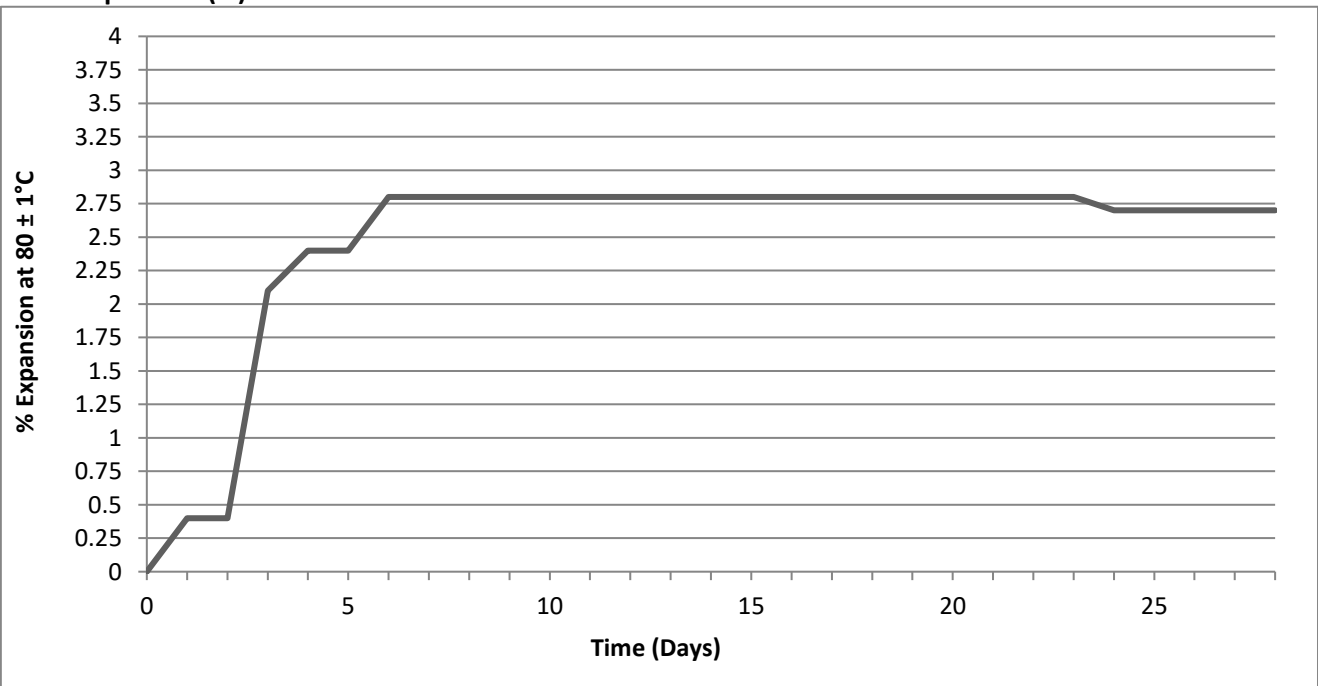
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 1 - 1.50m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	05/12/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 2.7



Comments:

Material crushed to pass 20mm

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 January 2019
Test Report Ref: TR 632212

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

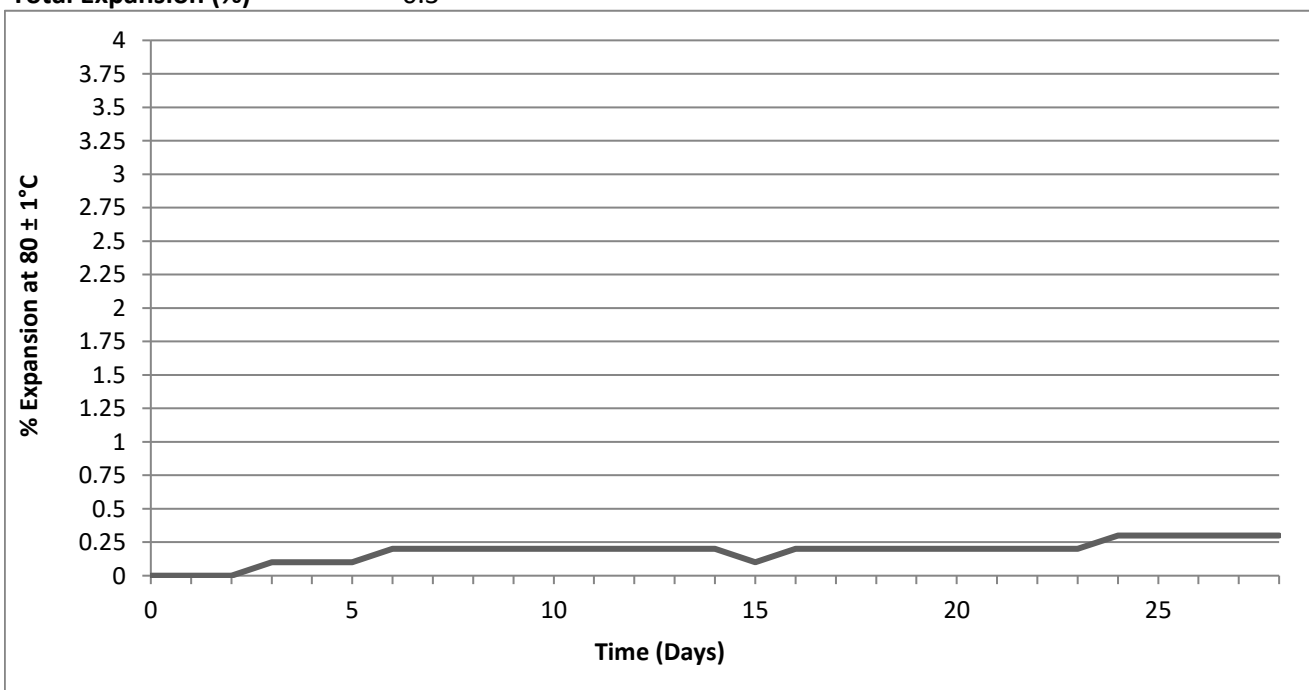
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 2 - 1.00m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	05/12/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.3



Comments:

Material crushed to pass 20mm

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 08 January 2019
Test Report Ref: TR 632171

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

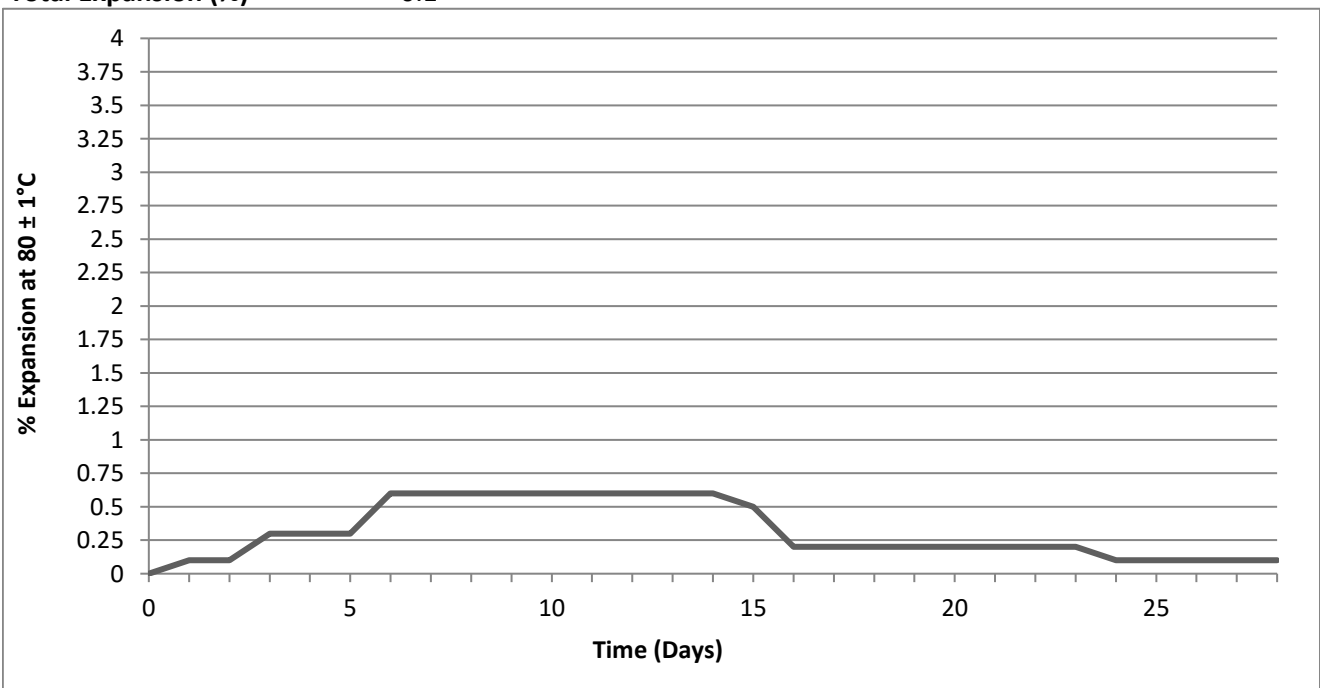
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C J 3 - 1.00m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	05/12/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



Comments:

Material crushed to pass 20mm

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 13 February 2019
Test Report Ref: TR 632208

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

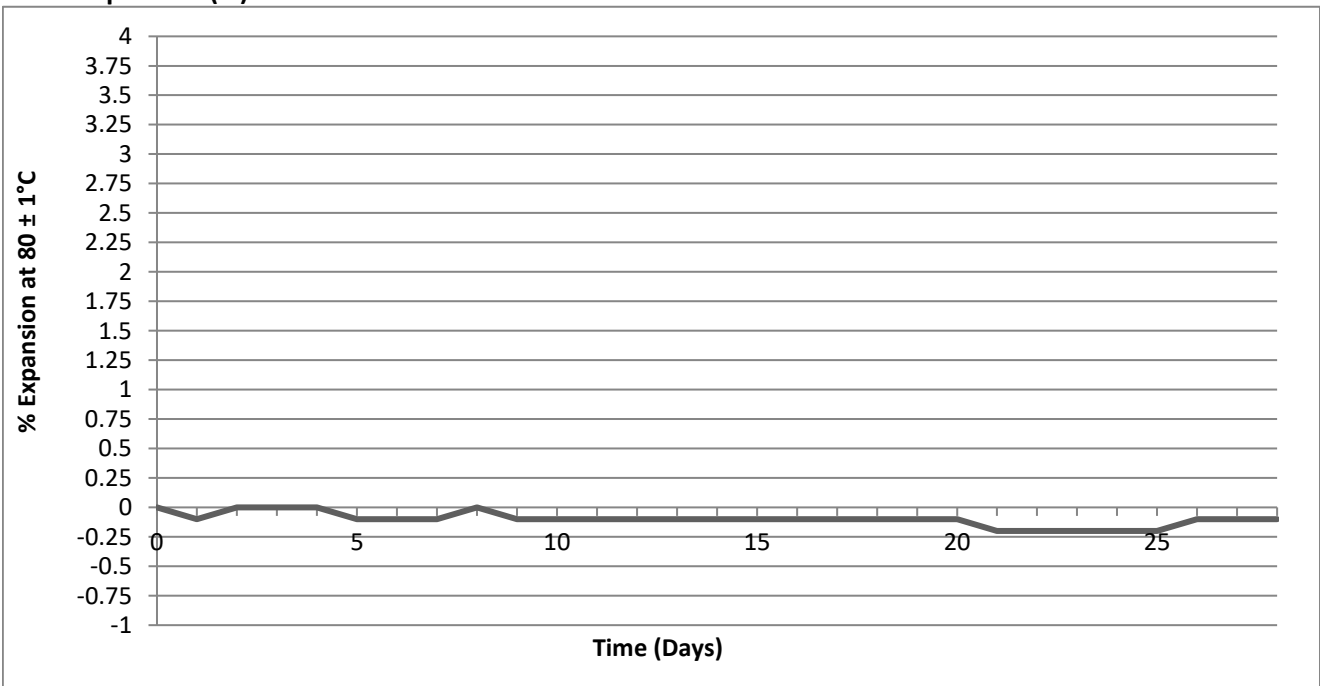
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S76311
Client Ref. No:	4 C K 2
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	23/10/2018
Date of Start of Test:	16/01/2019
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = -0.1



Comments:

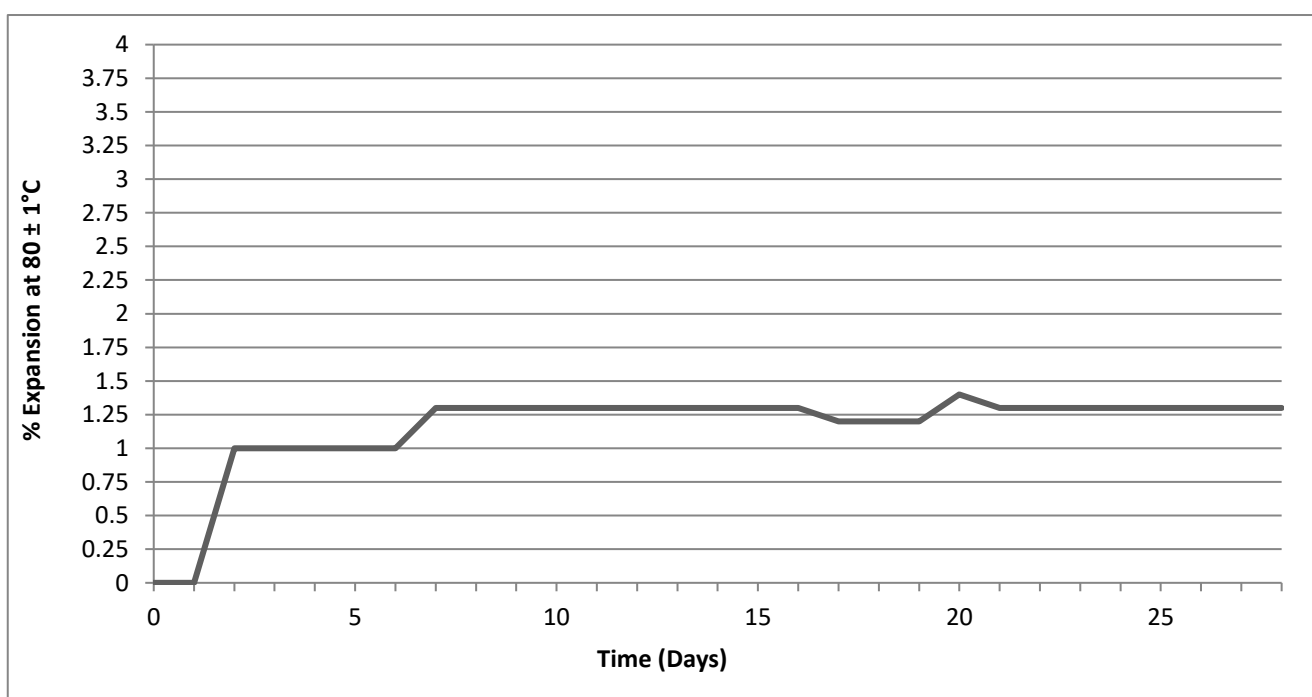
Material crushed to pass 20mm sieve

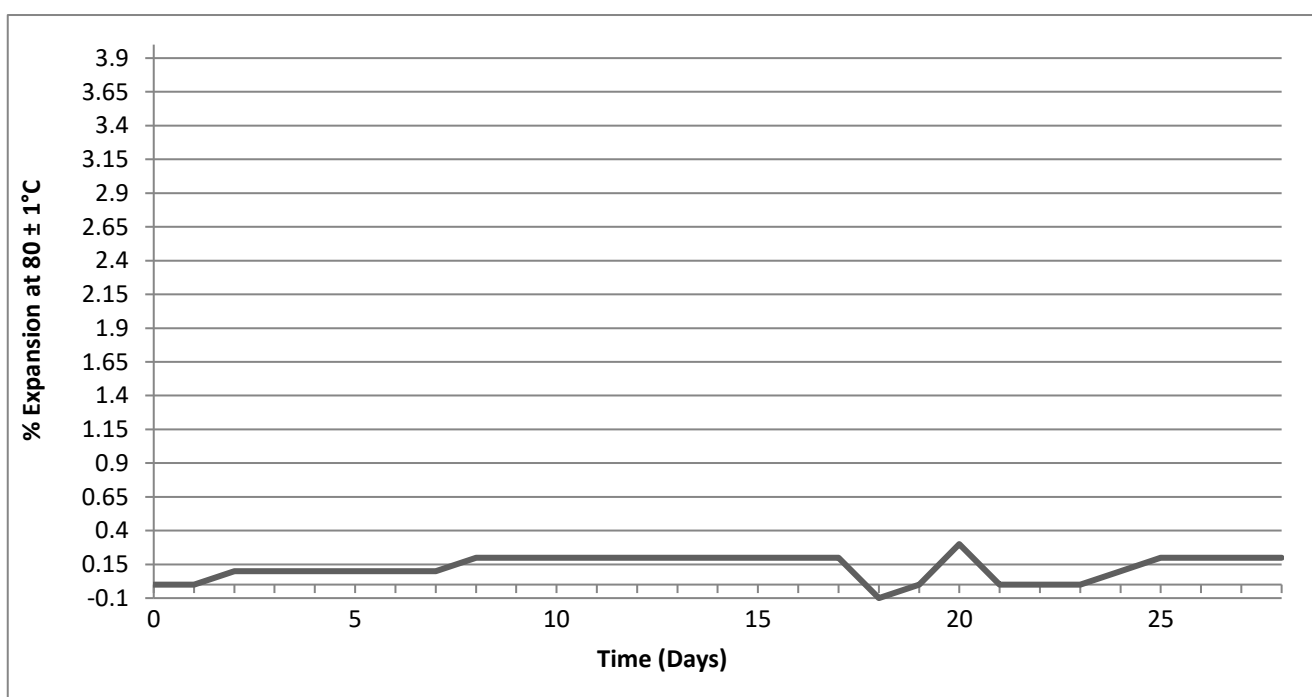
Report checked and approved by:

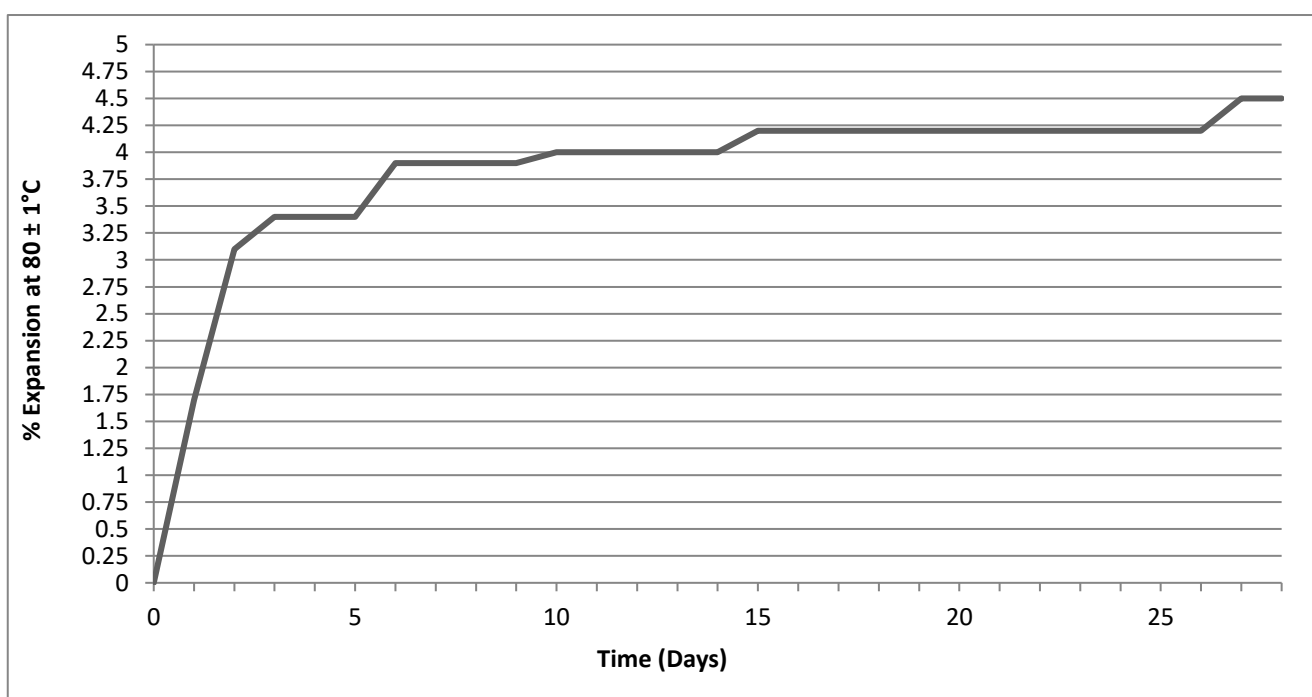
S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator







St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 09 May 2019
Test Report Ref: TR 640236

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

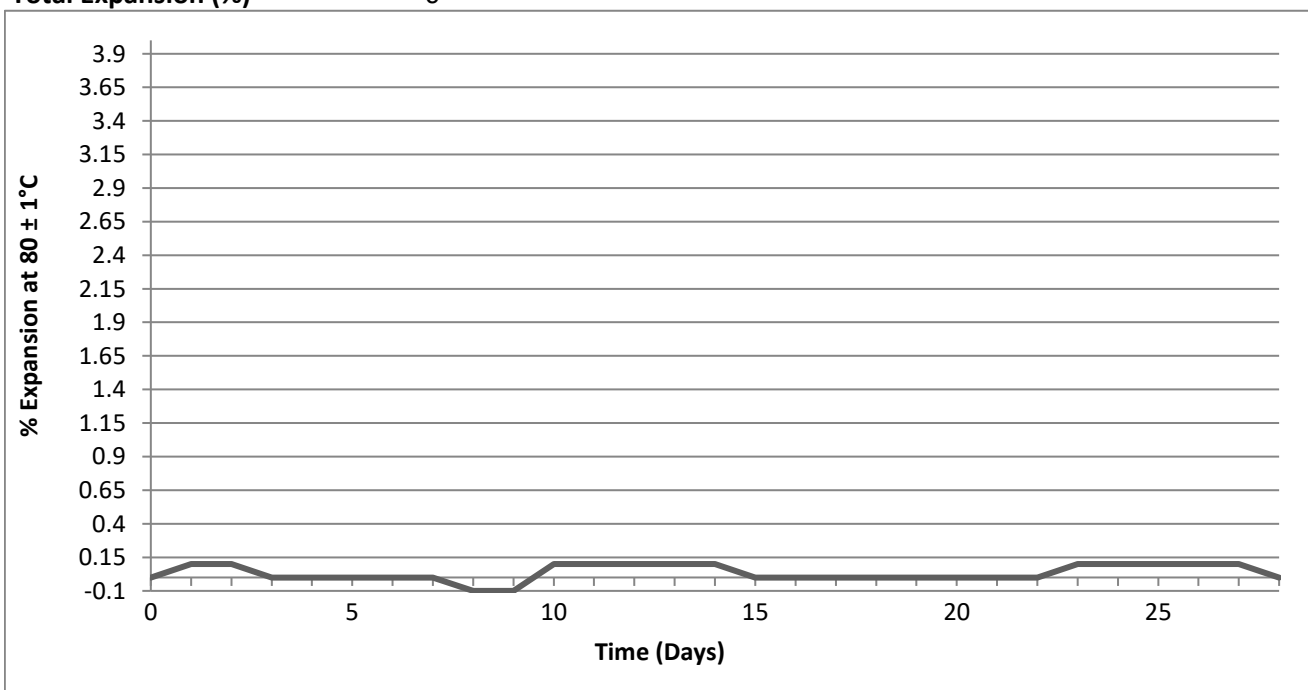
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C2 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	04/04/2019
Sampling Location:	4E C2 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 01 April 2019
Test Report Ref: TR 640238

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

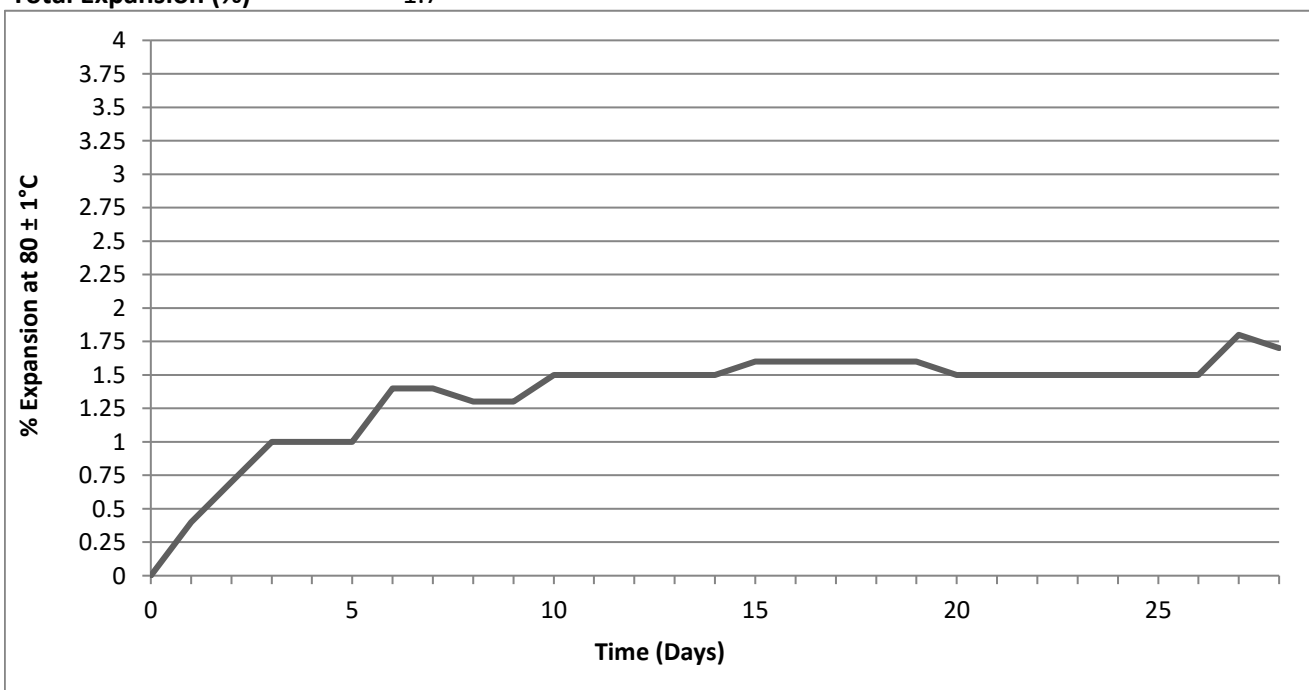
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	04/02/2019
Sampling Location:	4E C4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.7



Comments:

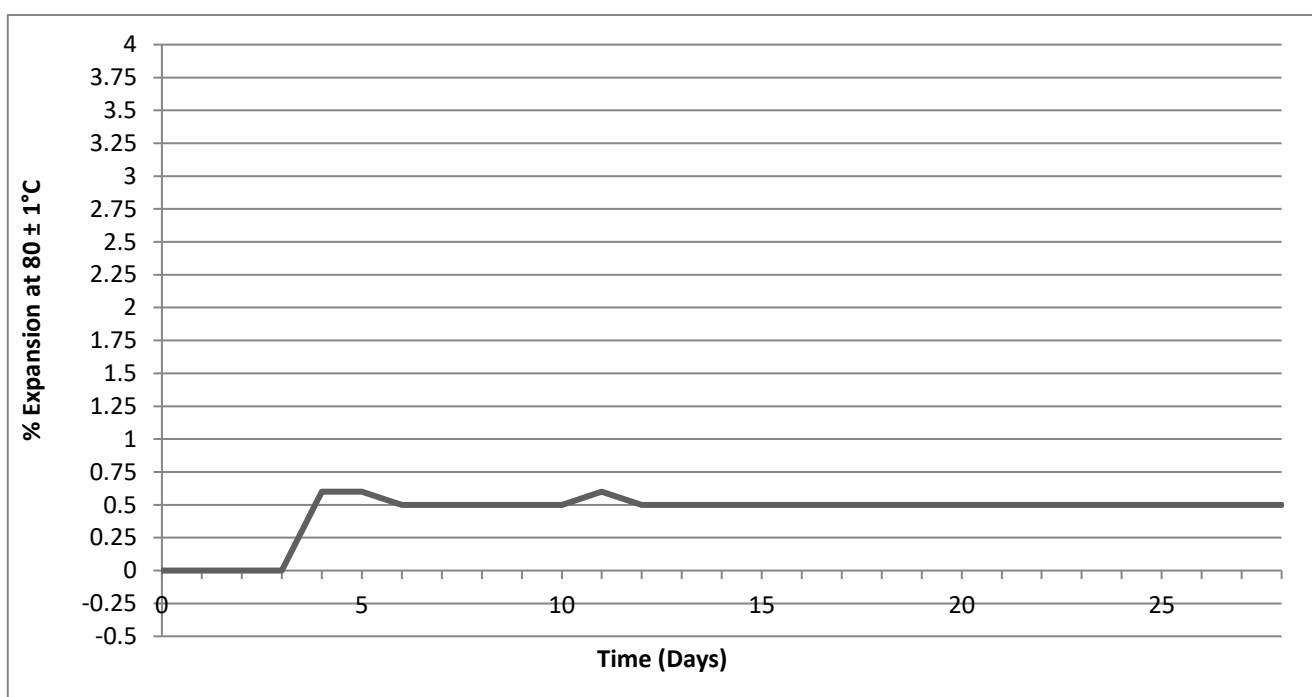
Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator



St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 13 March 2019
Test Report Ref: TR 640233

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

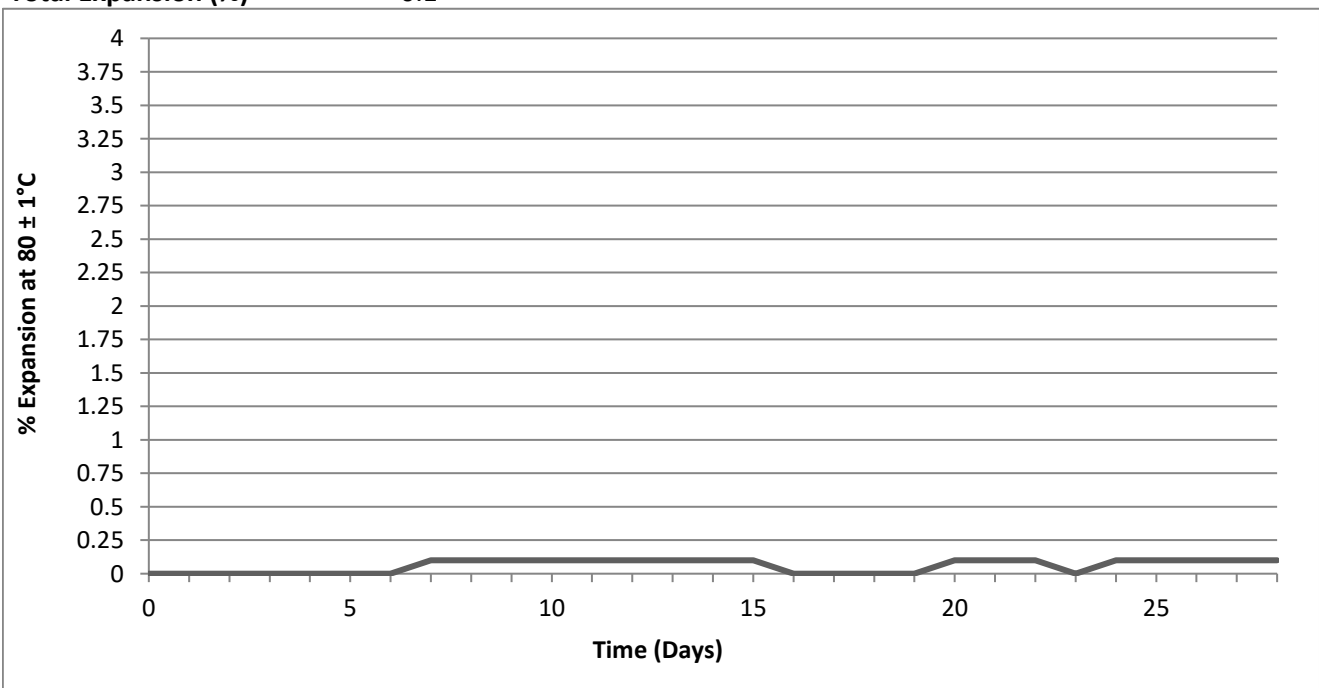
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D1 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	16/01/2019
Sampling Location:	4E D1 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 09 May 2019
Test Report Ref: TR 640235

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

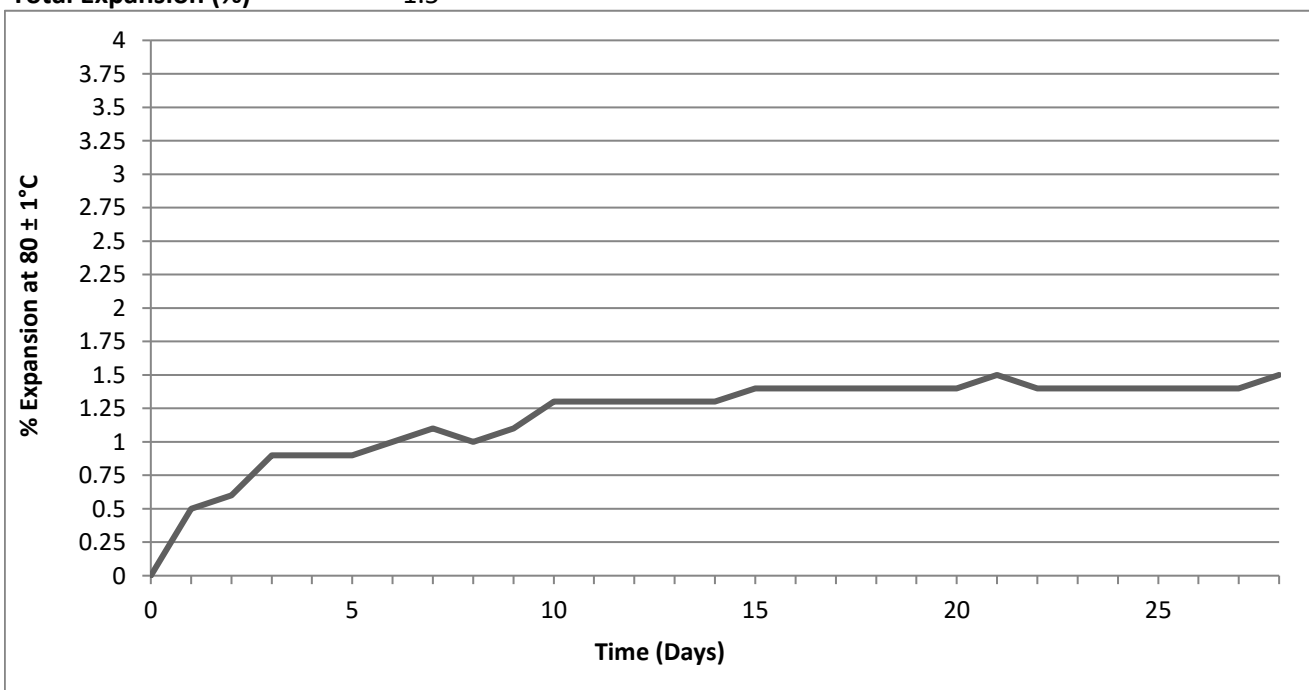
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D2 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	04/04/2019
Sampling Location:	4E D2 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.5



Comments:

Material crushed to pass 20mm

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 01 April 2019
Test Report Ref: TR 640239

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

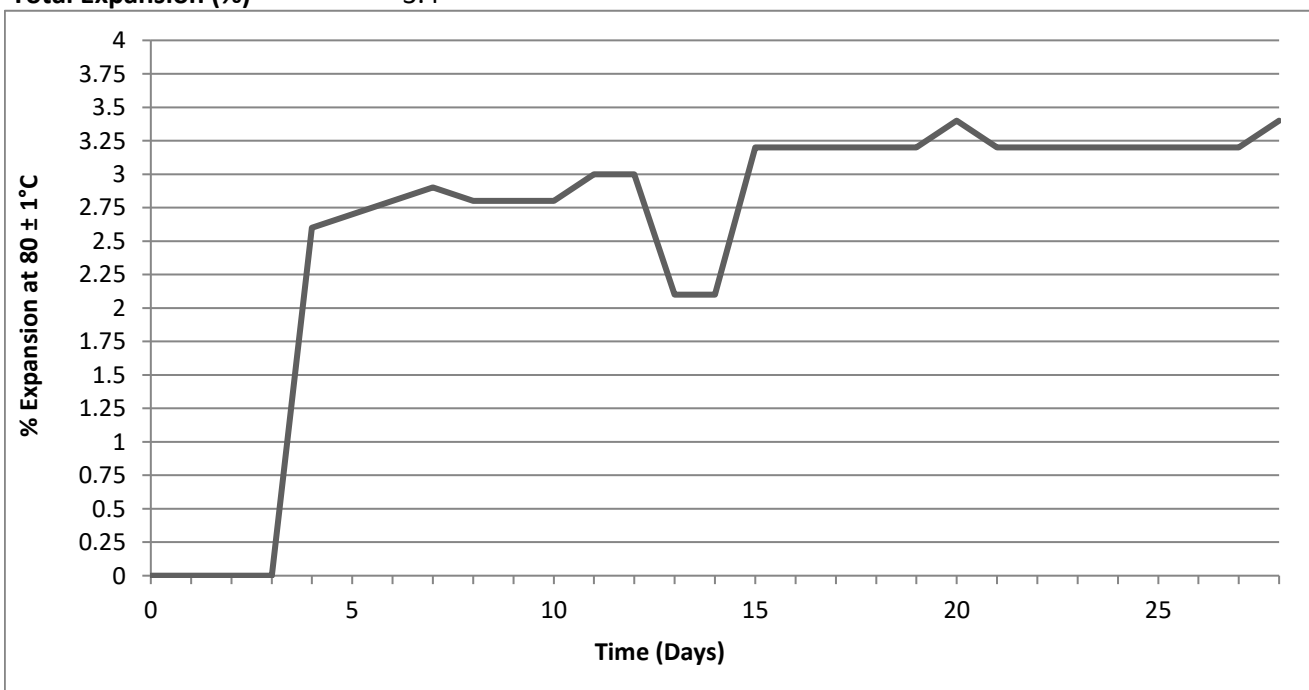
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	04/02/2019
Sampling Location:	4E D4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 3.4



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 01 April 2019
Test Report Ref: TR 640227

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

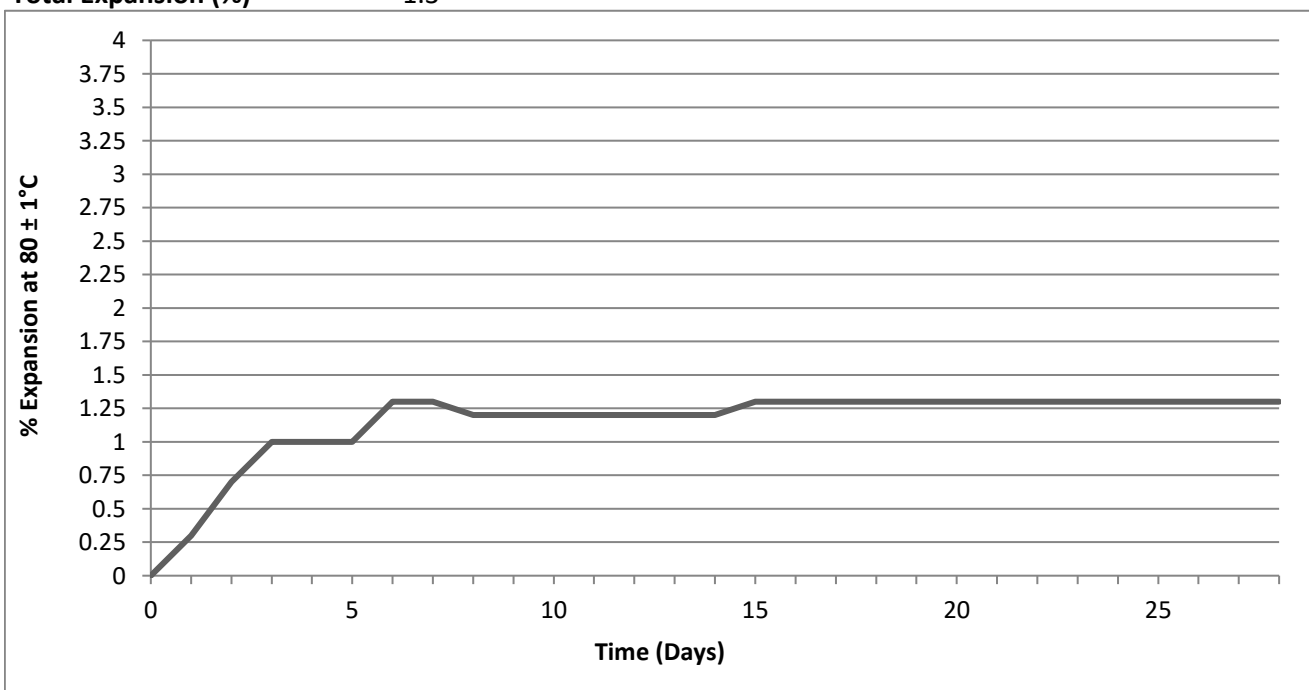
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E D7 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	04/020/2019
Sampling Location:	4E D7 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.3



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 09 May 2019
Test Report Ref: TR 640231

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

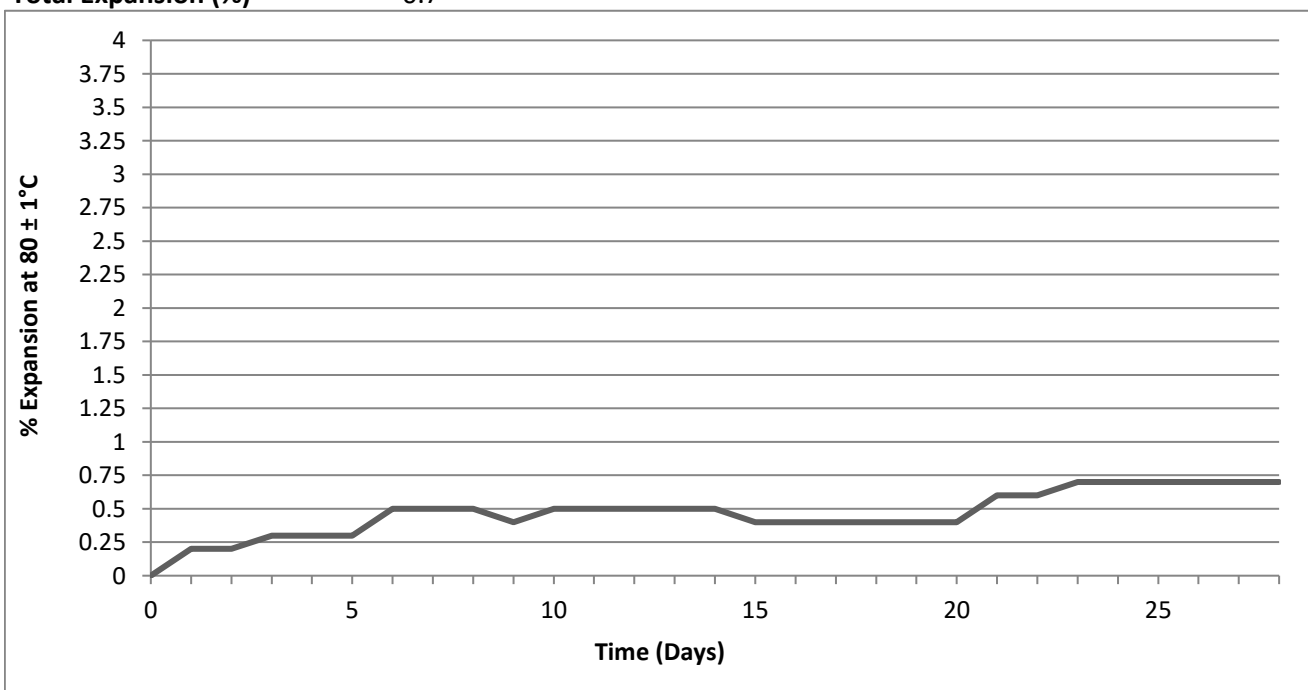
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E1 - 1.0m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	04/04/2019
Sampling Location:	4E E1 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.7



Comments:

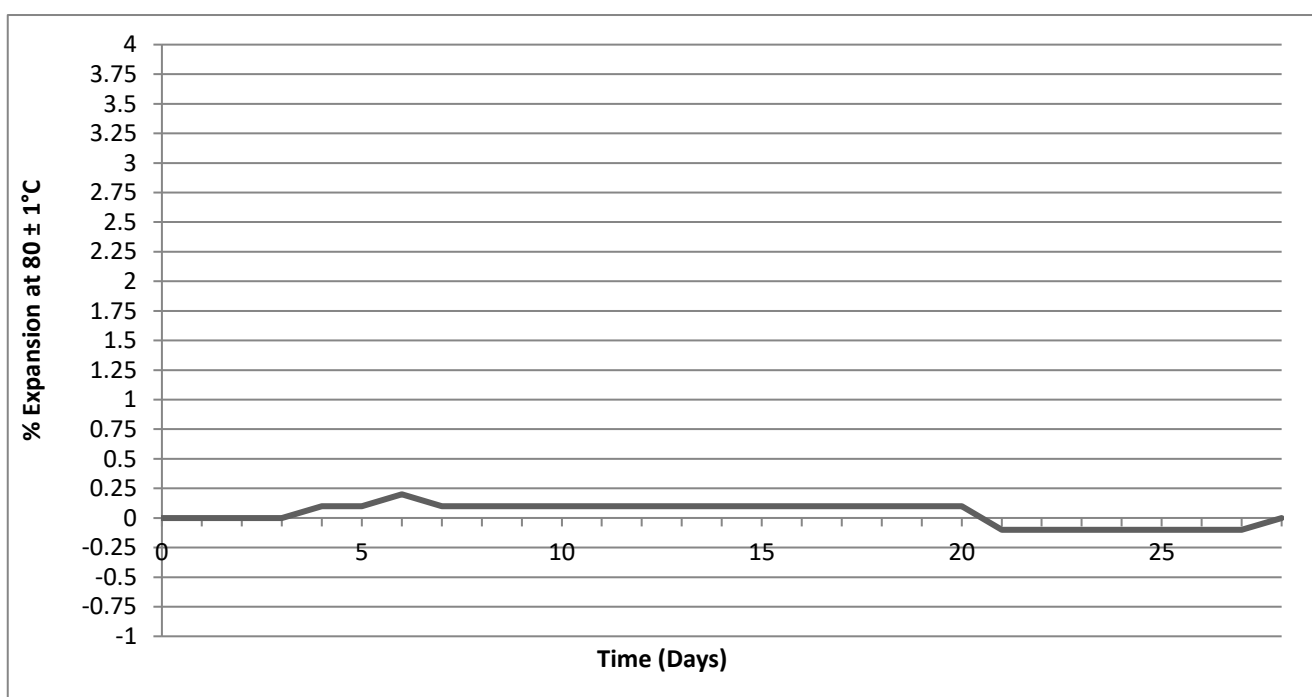
Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator



St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 01 April 2019
Test Report Ref: TR 640244

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

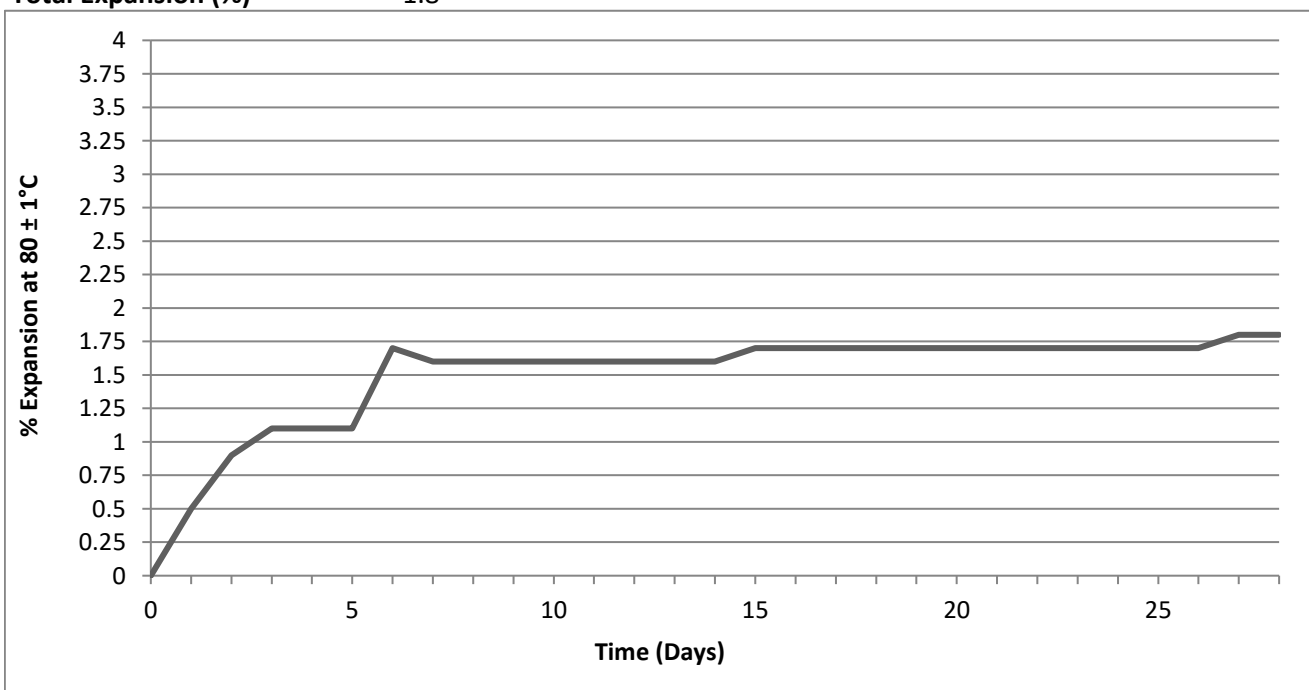
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E5 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	04/02/2019
Sampling Location:	4E E5 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.8



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 13 March 2019
Test Report Ref: TR 640245

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

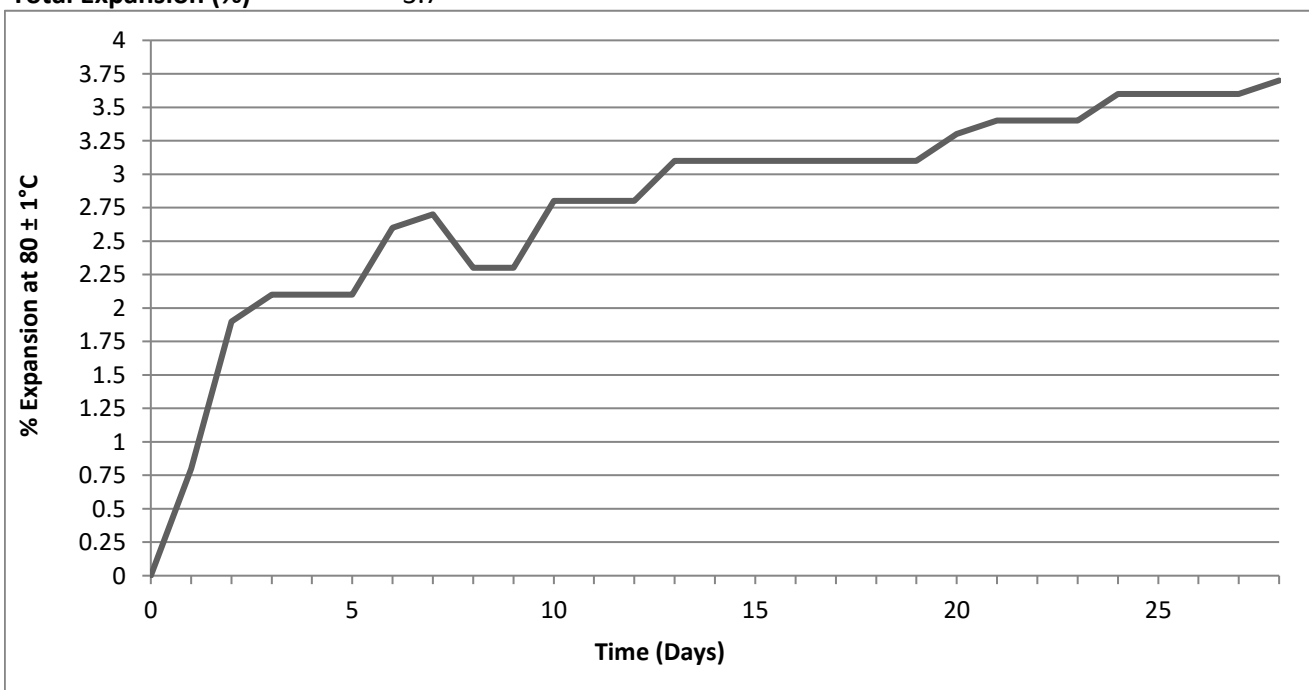
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E6 - 0.7m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	16/01/2019
Sampling Location:	4E E6 - 0.7m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 3.7



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 11 April 2019
Test Report Ref: TR 640247

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

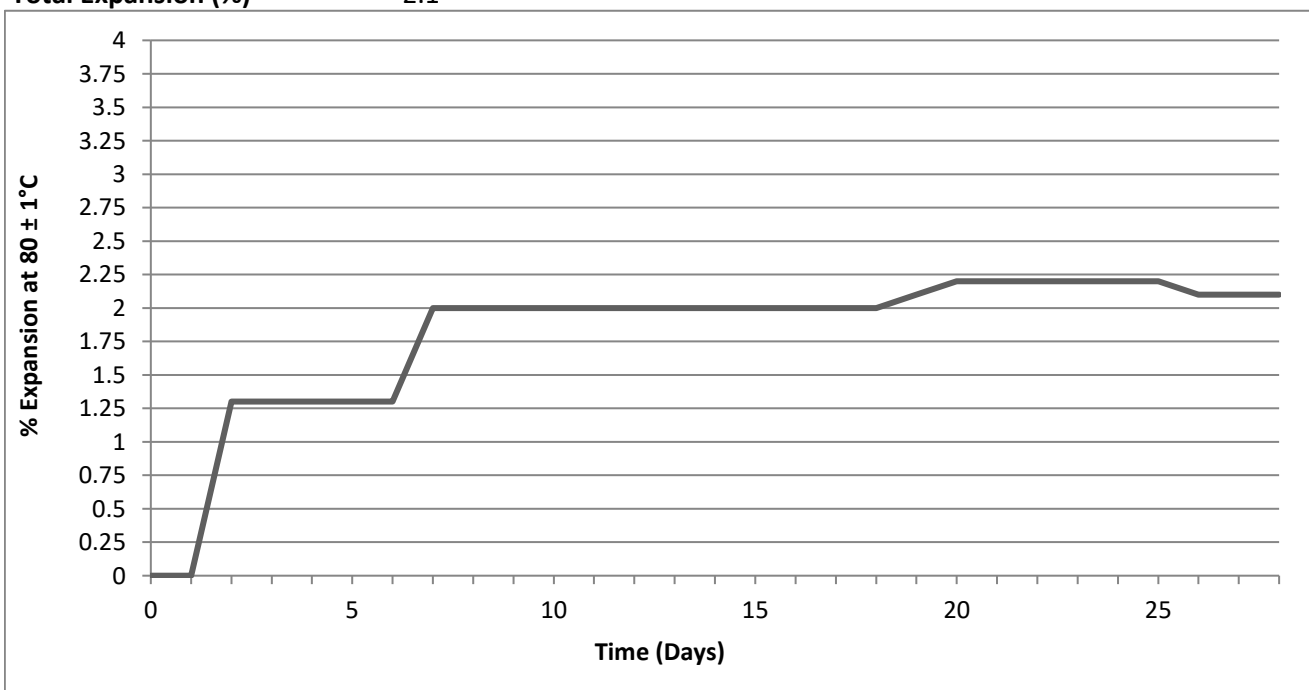
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E E7 - 0.8m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	06/03/2019
Sampling Location:	4E E7 - 0.8m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 2.1



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 25 February 2019
Test Report Ref: TR 640242

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

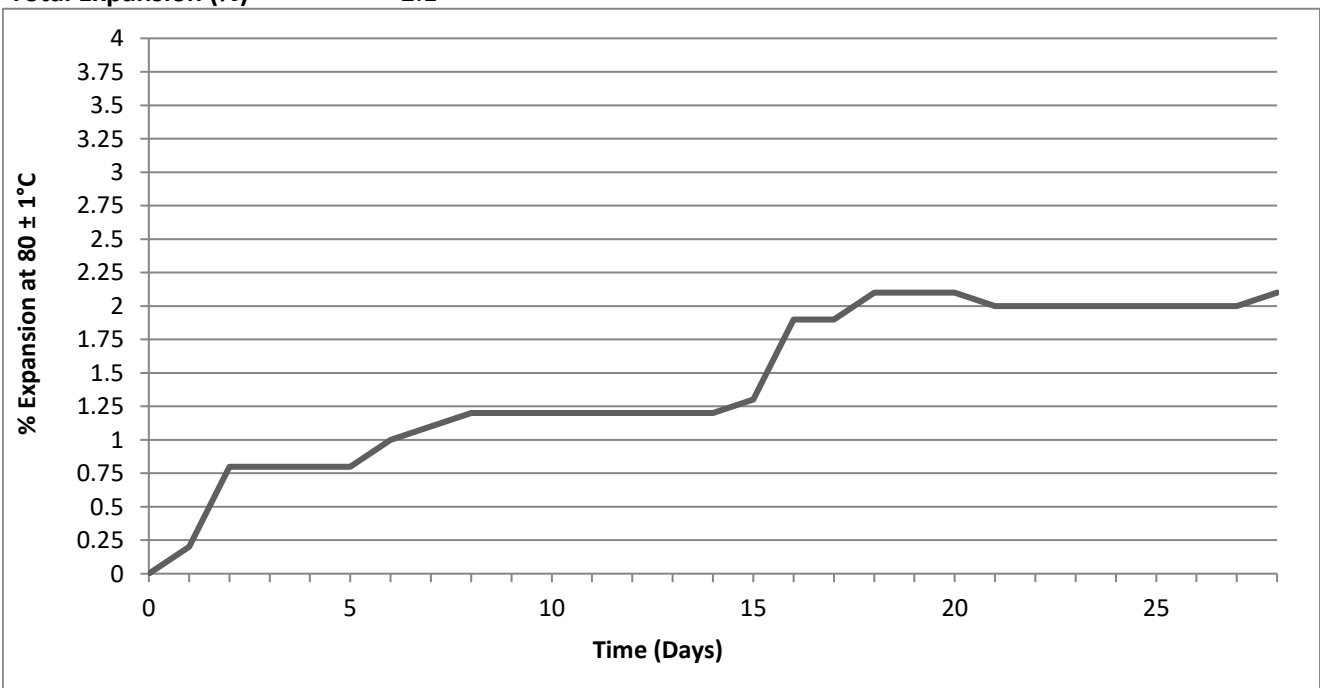
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E G4 - 1.0m
Date and Time of Sampling:	29-30/10/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	28/01/2019
Sampling Location:	4E G4 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 2.1



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 13 February 2019
Test Report Ref: TR 640258

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

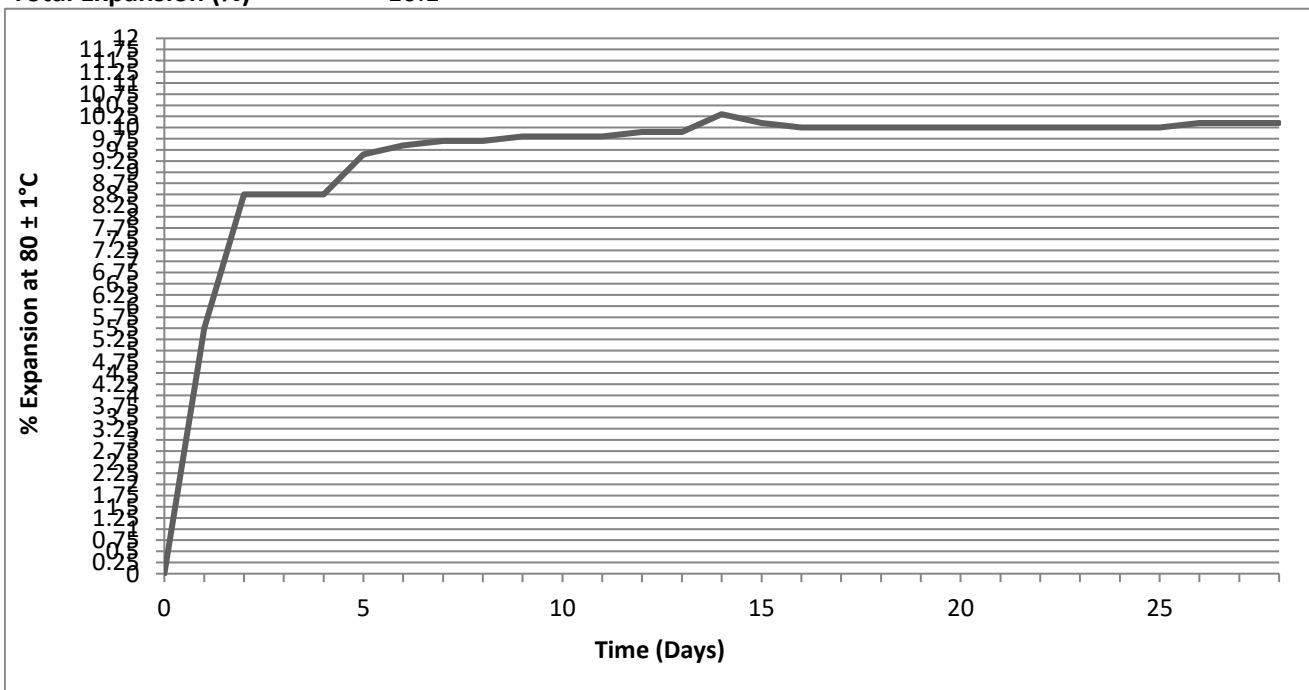
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G B6 - 1.0m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	16/01/2019
Sampling Location:	4G B6 - 1.0m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 10.1



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 25 February 2019
Test Report Ref: TR 640263

Order No: Bacs-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

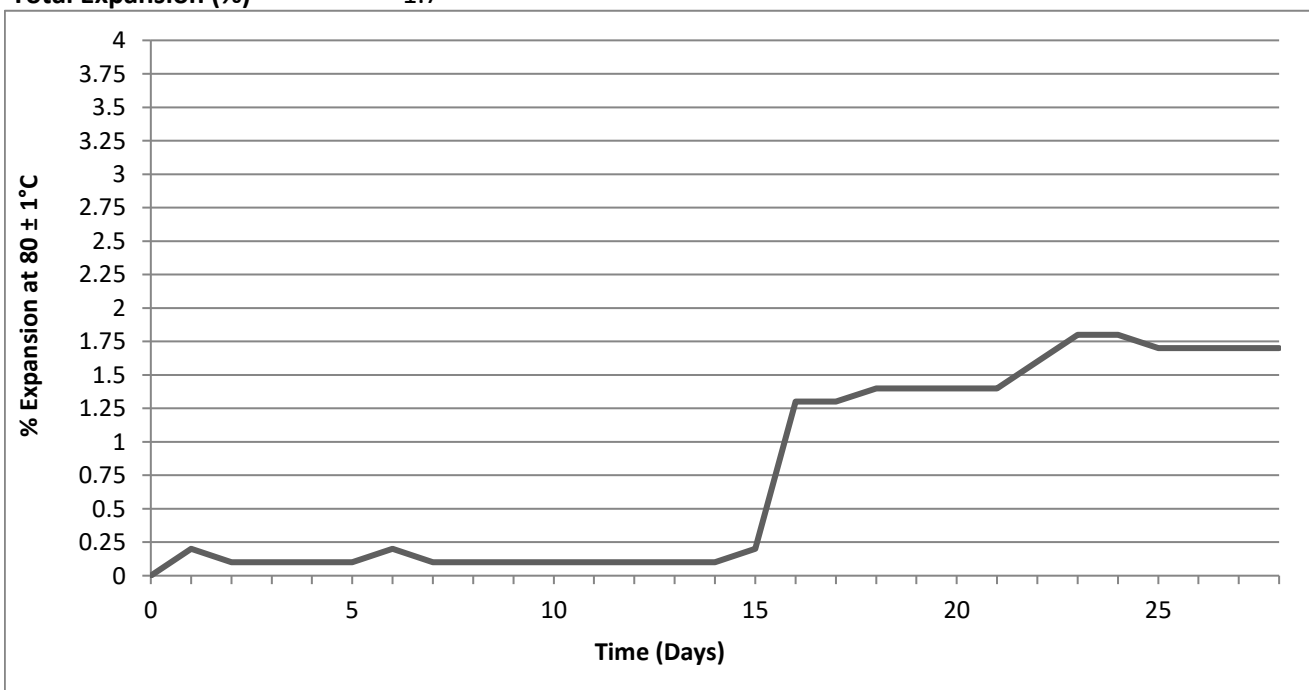
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G B7 - 0.7m
Date and Time of Sampling:	25-26/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	28/01/2019
Sampling Location:	4G B7 - 0.7m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.7



Comments:

Material crushed to pass 20mm

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 18 January 2019
Test Report Ref: TR 640229

Order No: BACS-Former Llanwern Steelworks

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LABORATORY TEST REPORT

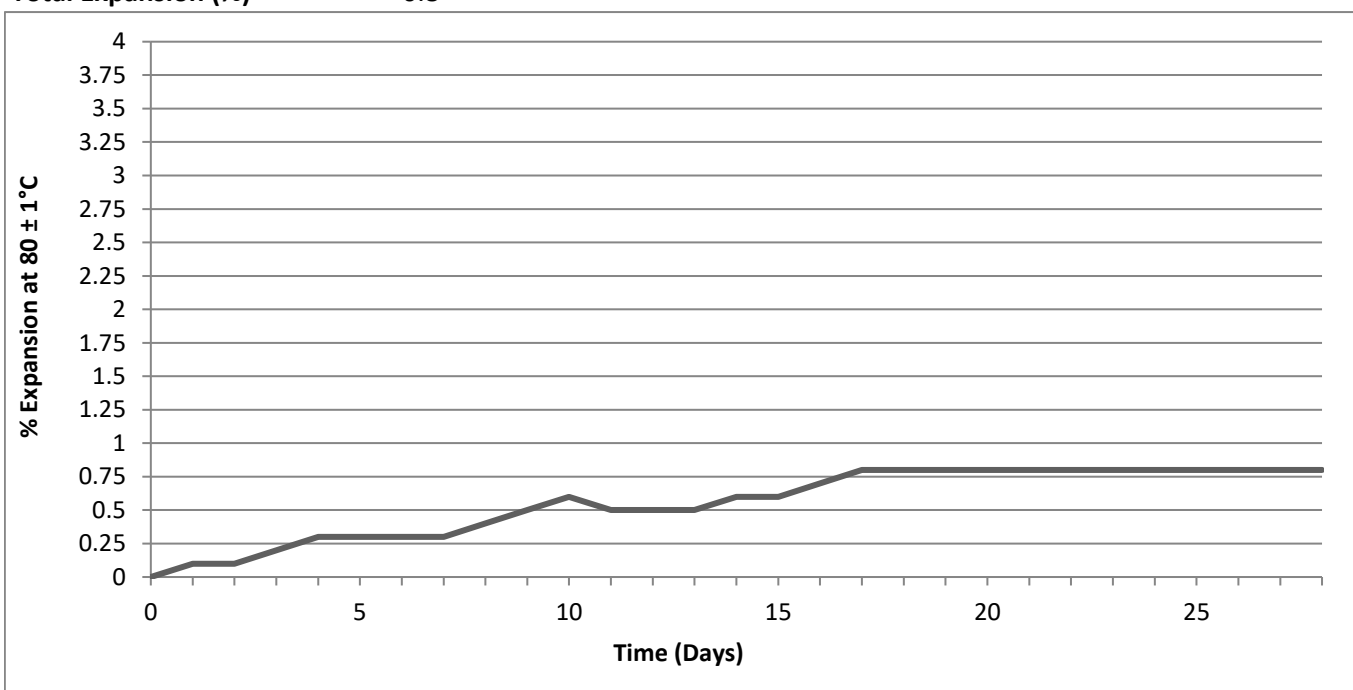
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E B7 0.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.8



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 18 January 2019
Test Report Ref: TR 640232

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

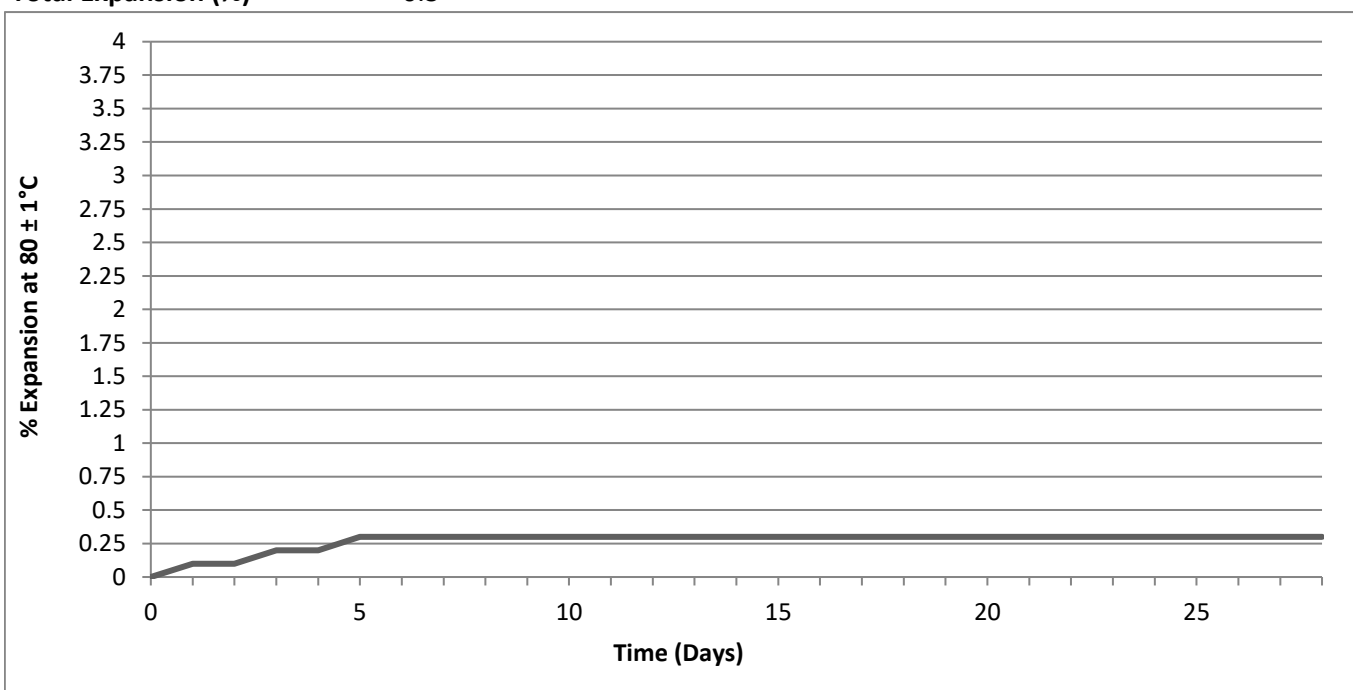
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4E C1 0.3m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.3



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 18 January 2019
Test Report Ref: TR 640259

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

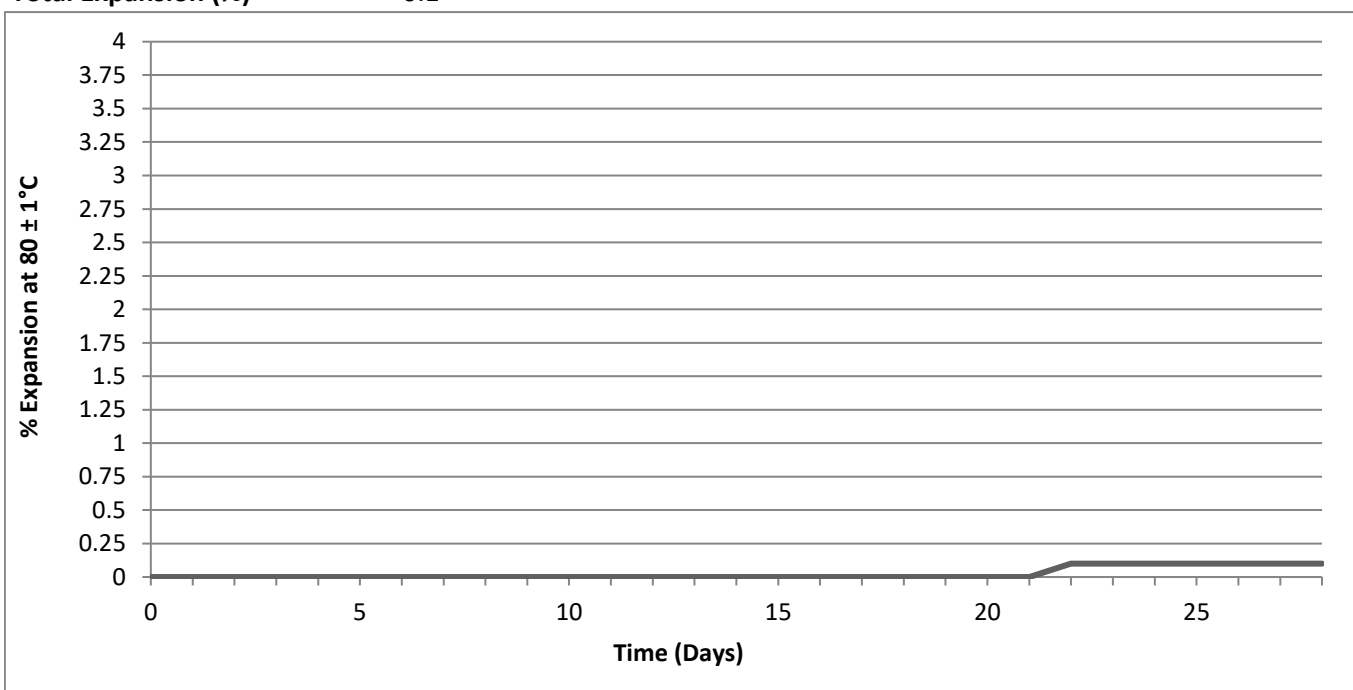
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G A6 0.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	12/12/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ
Contract: The Hawk Site

Date: 18 January 2019
Test Report Ref: TR 640264

Order No: BACS-Former Llanwern Steelworks

Page 1 of 1

LABORATORY TEST REPORT

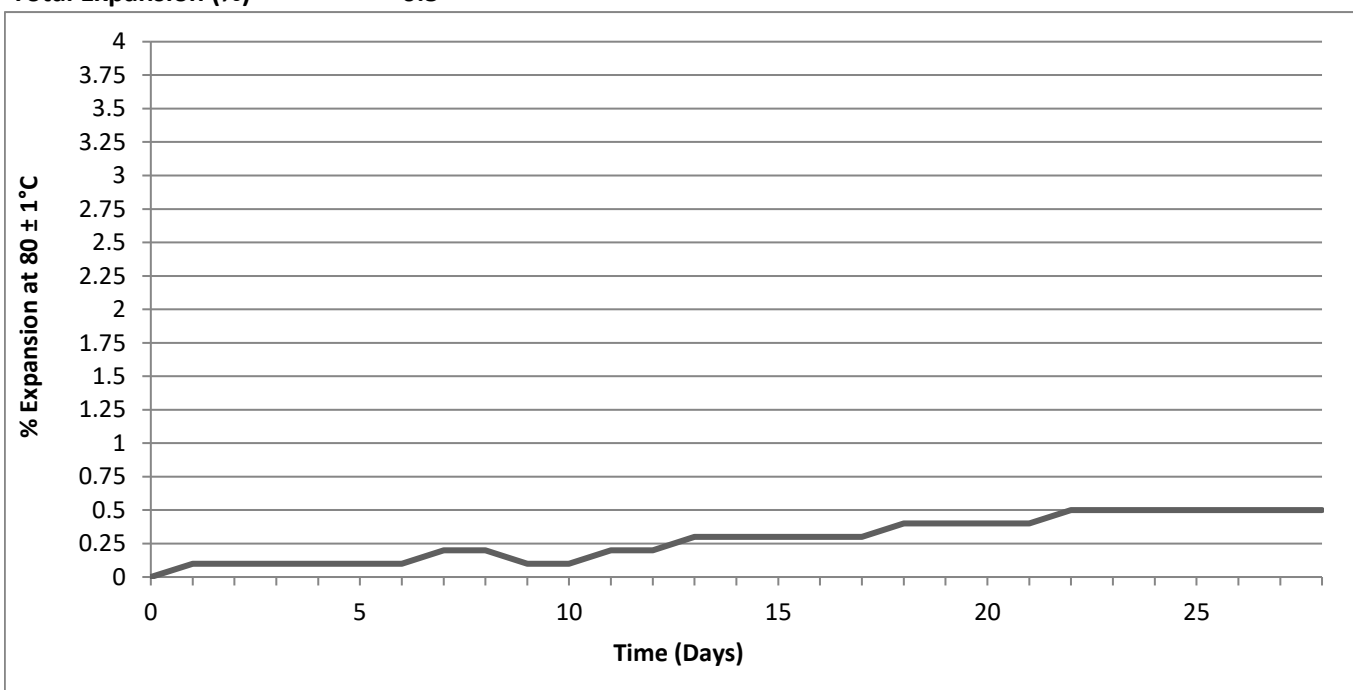
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S77023
Client Ref. No:	4G A4 0.5m
Date and Time of Sampling:	01/11/2018
Date of Receipt at Lab:	28/11/2018
Date of Start of Test:	14/12/2018
Sampling Location:	Former Llanwern Steelworks
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.5



Comments:

Material crushed to pass 20mm sieve

Report checked and approved by:

S Parry-Didcote

Sharon Parry-Didcote

Aggregate Team Coordinator

