

Utility Trench Arisings

16 October 2007

Manchester City Council
Positively Encourages
The Use Of
Approved
Recycled Materials

Today

Purely In Relation
To Utility Works

NRSWA Section

- March 2005 – Approached by Nat Grid
- Request to Trial Recycled Material (SMR)
- Also Tameside/Trafford/Salford
- Relevent Certificates to Specification Provided.
- Operators Trained in use.

Trial Undertaken

- Utility – Nat Grid Transco
- Contractor – May Gurney
- Footway Hand – Mix on site.
- Notices – Record Use SMR
- Regular Core Samples (Share Results)
- Regular Inspections / Photographs.

Trial Results

- After 6 months – No Defects Recorded
 - After 12 Months – No Defect Recorded
 - After 24 Months – No Defects Recorded
 - Lab Test Results / Certificates
 - Provided To Local Authority.
-
- PHOTOGRAPHS AVAILABLE OF SITES WITH V. WONG TODAY

Expansion Of Use

- Late 2006 –Approached by Nat Grid Transco.
- Based on Trial (SMR) handmix
- Based on Performance Results (SMR) handmix
- Roll Out of Material on Footway and Carriageway Approved by MCC NRSWA

(SMR) Supplier

- SMR Licence Holder North West Region
- Recycled Material Certified by LA Approved Lab to meet specification.
- MCC NRSWA Approved
- Utility Trench Waste Only
- No Contamination within Yard
- Storage Facilities
- Based in Salford Local to all GMA Authorities.

Certificates /Reports (SMR)

Reports / Results –

Test Report No: STR 65914A Dated : 23 October 2006

To determine the Particle Size Distribution (PSD) of aggregate sample – washing and sieving method to BS EN 933-1: 1997

Test Report No: STR.:67710A Dated : 13 November 2006

To determine the Frost Heave of aggregate according to BS 812: part 124: 1989 including SHW amendment.

Test Report No: TR 82163 Dated : 2 March 2007

To determine the Density / Moisture Content Relationship – Vibrating Hammer Method in accordance with BS 1377 : Part 4 : 1990 Clause 3.7

Test Report No. STR78964 Dated 2 March 2007

To determine the Particle Size Distribution (PSD) of aggregate sample – washing and sieving method to BS EN 933-1 : 1997.

Test Report No. TR 78965 Dated 2 March 2007

To determine the Resistance to Fragmentation of Aggregate – Los Angeles Test Method in accordance with BS EN 1097-2: 1998

Test Report No. TR 78966 Dated 2 March 2007

To determine the Constituent Materials in Recycled Aggregate and Recycled Concrete Aggregate in accordance with Specification For Highway Works : Volume1:Series 700: Clause 710.

Test Report No : STR81782 Dated 2 March 2007

To determine the Frost Heave of aggregate according to BS 812 : Part 124:1989 including SHW amendment.

Test Report No. TR 82162 Dated 2 March 2007

To determine the plastic Limit, Liquid Limit, and plasticity Index of sample in accordance with BS 1377: Part 2 : 1990 Clause 5.3 Clause 4.3 and Clause 5.4.

Test Report No. STR 79161 Dated 7 February 2007

To determine the Particle Size Distribution (PSD) of aggregate sample – washing and sieving method to BS EN 933-1: 1997

Information / Records Maintained

- Operative Training
- Samples taken regularly to maintain Quality /Consistency /Performance
- Regular Test Lab Updates of Certificates
- Transport / Load / Issue Tickets.

Performance (SMR)

- Proven Performance To date.
- No Concerns From MCC
- No Defects To Date

If there were these would be dealt with as would any other failed Reinstatement either virgin or recycled

MCC Share Information

- Greater Manchester Authorities.
- NWStreet Works Group
- Derbyshire County Council recently agreed to Nat Grid use of SMR based on 2 ½ trial within GMA.
- MCC Street Lighting PFI using SMR
- North West HAUC
Sub Group – Recycled Materials

Members

- Utility Representatives
- Street Works Co Ordinators
- Test Laboratory Staff
- WRAP – Case Study

MCC Share Information



- Any Local Authority is Welcome to visit Manchester to Inspect / Photograph or Core sample any SMR based Approved Reinstatements

Clayton Avenue



Bold Street



Responsibility

- Utility Companies have overall responsibility -

Works / Reinstatement /Materials Used/
Operatives Workmanship

- Defective Reinstatments are reported to the Utility Companies.

Everything We Do Today Has A Consequence Later

Don't

Protect Apparatus

Use Correct Materials

Use Correct Method

Consequence

Damaged or loss of service

Defect Issued

Costs Incurred

Disruption To Users Of The Highway Again !

Possible Liability – Personal Injury / 3rd Party Claim.

Your Aims
As Utilities
Road To Zero

Driving For World Delivery

What Can We Do Tomorrow
Better Than We Did Today

MCC NRSWA Aims

Safe Working
Spoil Removed
Reinstated To Satisfaction
Quality & Performance