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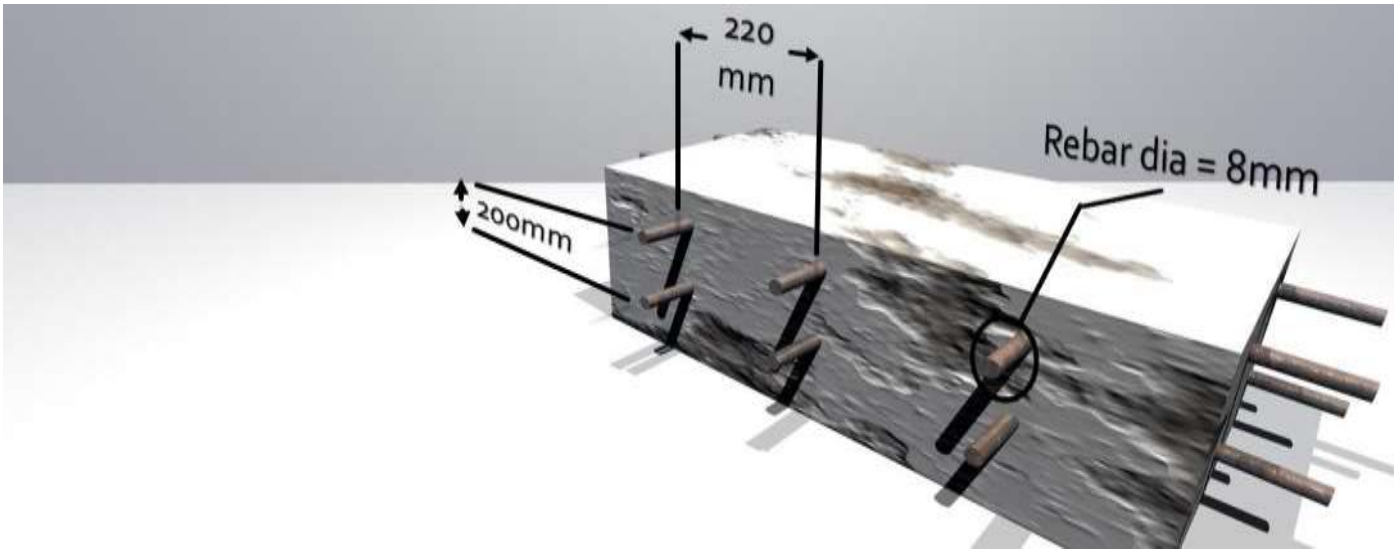
P: PO Box 3029, Midland WA 6056
A: Level 8, 251 Adelaide Tce, Perth 6000
ABN: 89 262 952 771

UNITED SCANNING SERVICES PTY LTD

Concrete Scanning Report



DIAL BEFORE YOU DIG www.1100.com.au

ATCO Gas AUSTRALIA

WATER CORPORATION

CONCRETE INSTITUTE of AUSTRALIA

United Scanning Services Pty Ltd

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JOB DOCKET

Scan Type: Concrete Scan

DOCKET No.

Date: .....

Company Name: .....

Telephone No: .....

Site Location: .....

Purchase Order No: .....

Site Contact .....

EMail: .....

.....

Pre-site Safety Checklist

On arrival at the site, tick the correct answer where relevant to the job. If the answer is NO the situation is unsafe. Alert the office.

	YES	NO		YES	NO
INDUCTION REQUIRED	☐	☐	VENTILATION ADEQUATE	☐	☐
FIRST AID LOCATED/ACCESSIBLE	☐	☐	SCAFFOLDING ERECTED	☐	☐
SAFETY EQUIPMENT FUNCTIONAL	☐	☐	FALL PROTECTION IN PLACE	☐	☐
ELECTRIC LEADS	☐	☐	OPERATIONAL EQUIPMENT	☐	☐
In good condition and safe	☐	☐	In good working order		☐
Correctly Tagged	☐	☐	Components operational / safe	☐	☐
PROTECTIVE CLOTHING			HAZARDOUS SUBSTANCES		
Suitable	☐	☐	Identified	☐	☐
Fit for duty	☐	☐	LIGHTING SUITABLE	☐	☐

Disclaimer: Whilst every effort is taken to give an accurate assessments of all articles detected beneath the concrete surface by radar operating personnel. United Scanning Services and its Affiliates do not take any responsibility if any article is detected incorrectly or not detected by the radar or radar operating personnel. By reading and signing this you understand that no responsibility will be accepted for any damage caused whatsoever.

USS Rep: .....

Print Name: .....

Client Rep:.....

Print Name: .....

Return to Site Required?

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UNITED SCANNING SERVICES PTY LTD

1. Scanning Results

To whom it may concern,

This document is to state that Ground Penetrating Radar Scanning, rebound smit hammer and pH testing was undertaken by UNITED SCANNING SERVICES
PTY LTD on the:

Works were undertaken at the following location:

Description of Works Completed:

- Undertook concrete scanning to locate and mark the reinforcement bars in 18 locations on the 1st floor, both on top and on the underside of the slab, as shown in photos below.
- Rebound Schmidt hammer testing was also conducted in each of these 18 locations.
- Undertook ph testing in 4 locations. Two of these PH tests were taken on the surface of the concrete after cleaning with wire brush and desalinated water. A further two PH tests were conducted at a depth of 5mm into the concrete by way of small hammer drill hole, and removed the powdered concrete mixture for testing. The 2 x 6mm small hammer drill holes were made good by N/S grout

If you require any more information, please let us know.

Findings:

1. Balcony slab is 160mm thick on the edges measured, with 2 layers of reinforcement and 40mm cover.
2. 1st floor slab is 180mm thick, with cover of 40mm.
3. The spacing's of the reinforcement bars are 300mm x 200mm for both areas.
4. The surface pH levels were found to be both at 11, the two 5mm samples were found to be 11.5 and 12 respectively.
5. The PH levels for the surface testing were tested on site using phenolphthalein indicator solution and results was in the normal parameters for the concrete surface.
6. Part of the two samples taken from the drill holes were also tested on site with phenolphthalein solution and have resulted within the normal parameters for the concrete at that depth.
7. The remaining dust sample that was removed from the concrete slab was tested with a fluke PH tester and has also confirmed that they are well within the normal concrete parameters (This was done to ensure the Phenolphthalein indicated solution did not affect the true PH reading of the dust samples.)

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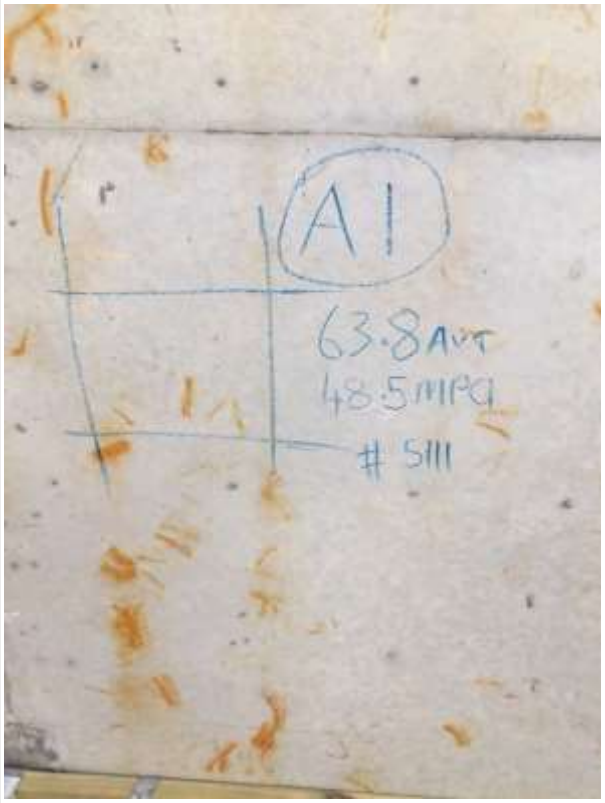
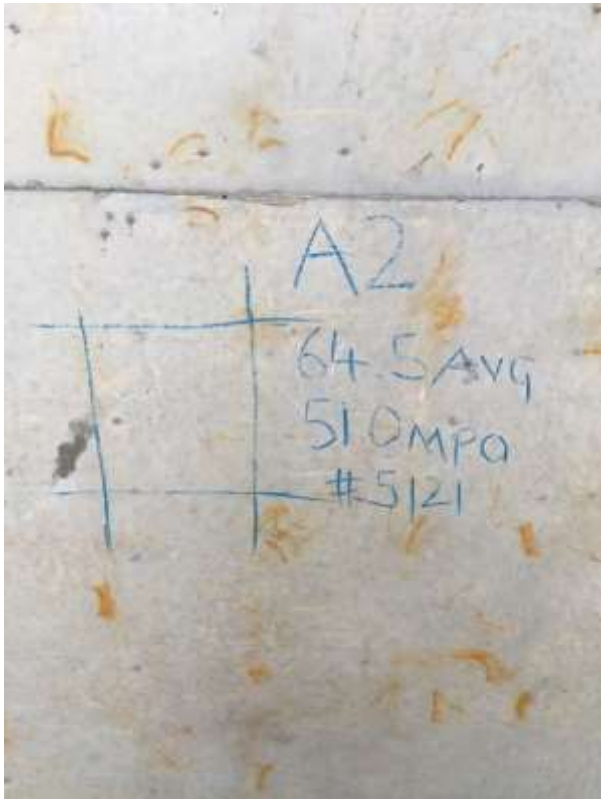
Site Address
Client

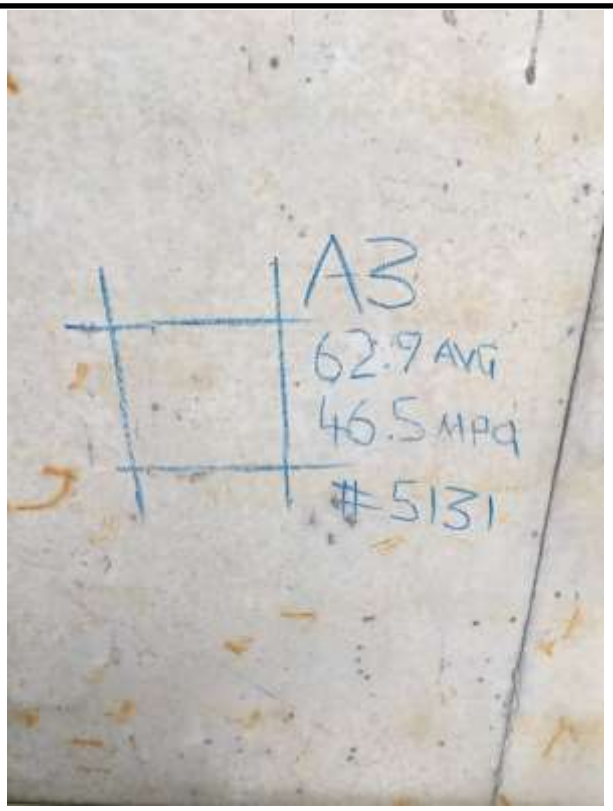
Date:

Drawn By:

3. Photos







A1, A2, A3 Testing has been conducted on the underside of the house slab, testing locations have been taken left to right looking towards the front of the property

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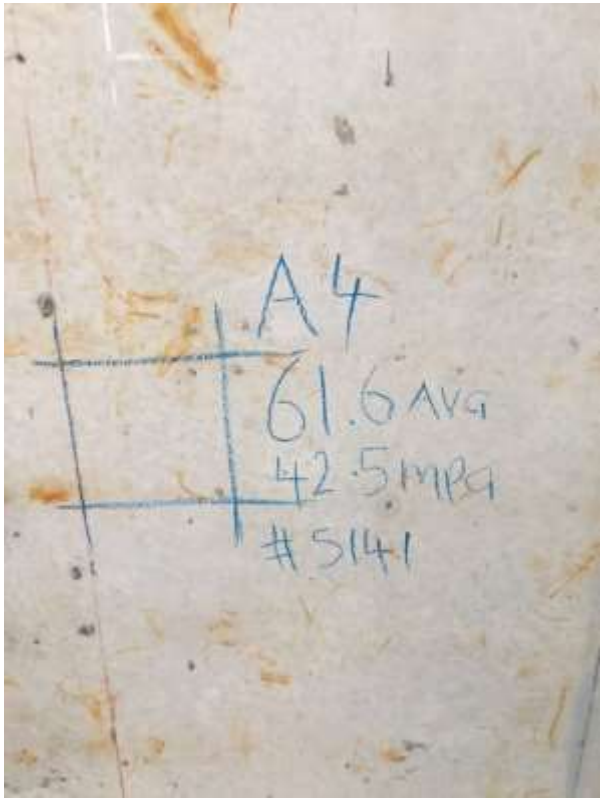
Site Address

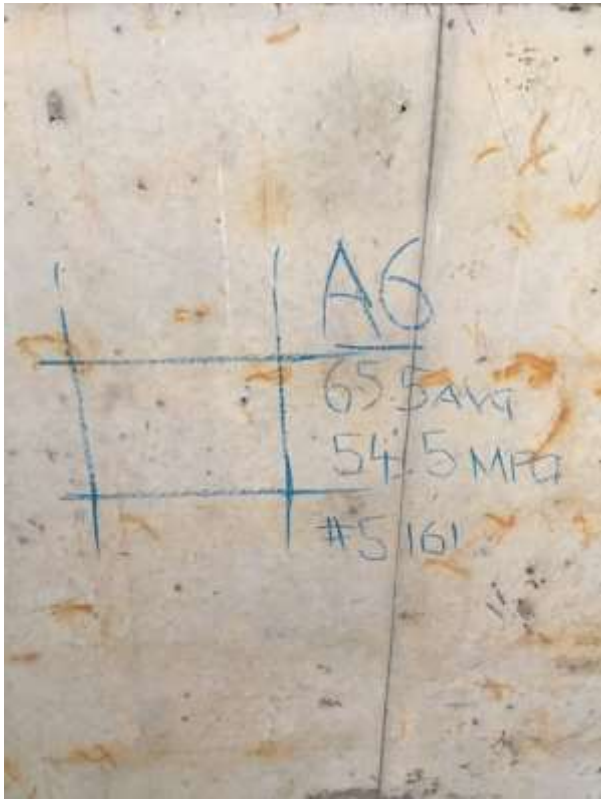
Client

Date:

Drawn By:

3. Photos





A4, A5, A6 Testing has been conducted on the underside of the balcony slab, testing locations have been taken left to right looking towards the front of the property

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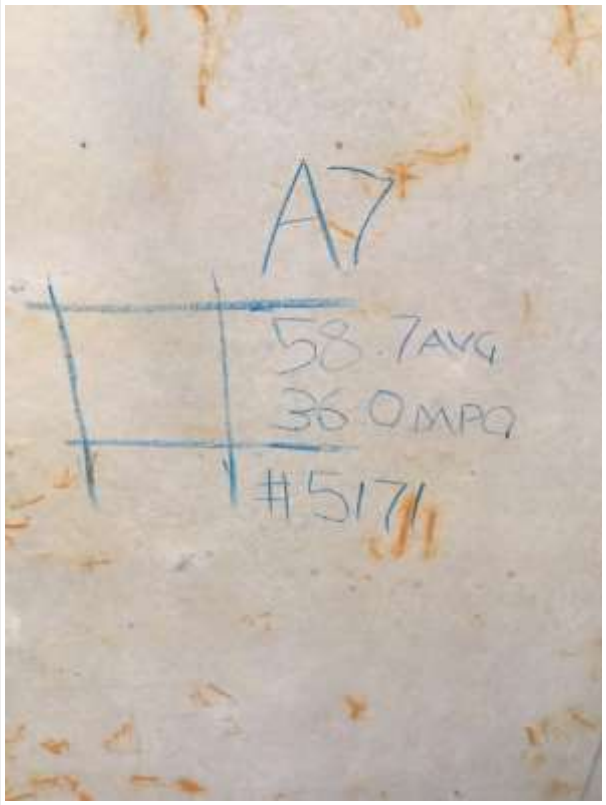
Site Address

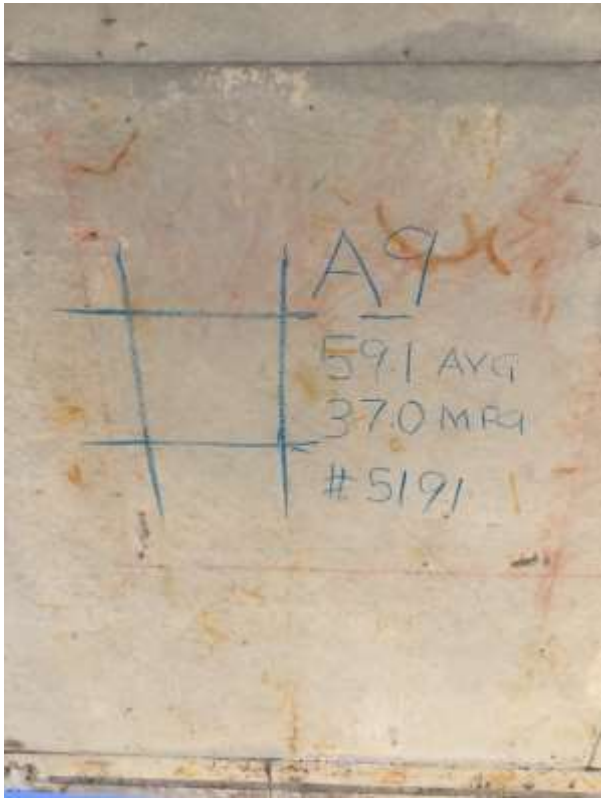
Client

Date:

Drawn By:

3. Photos





A7, A8, A9 Testing has been conducted on the underside of the balcony slab, testing locations have been taken left to right looking towards the front of the property

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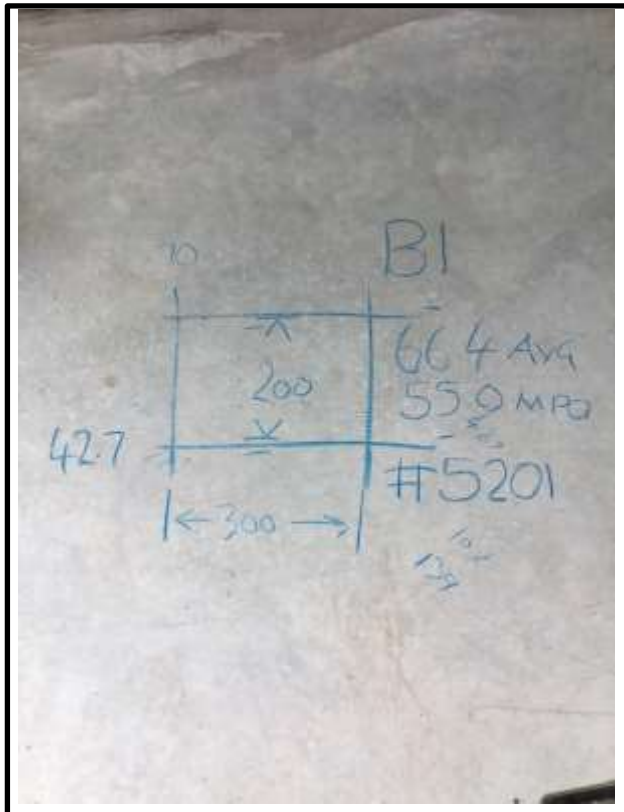
Site Address

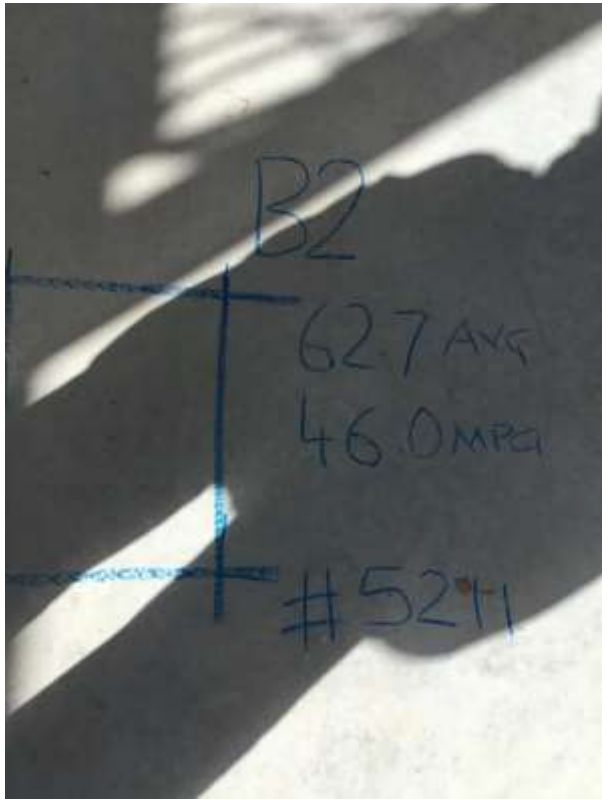
Client

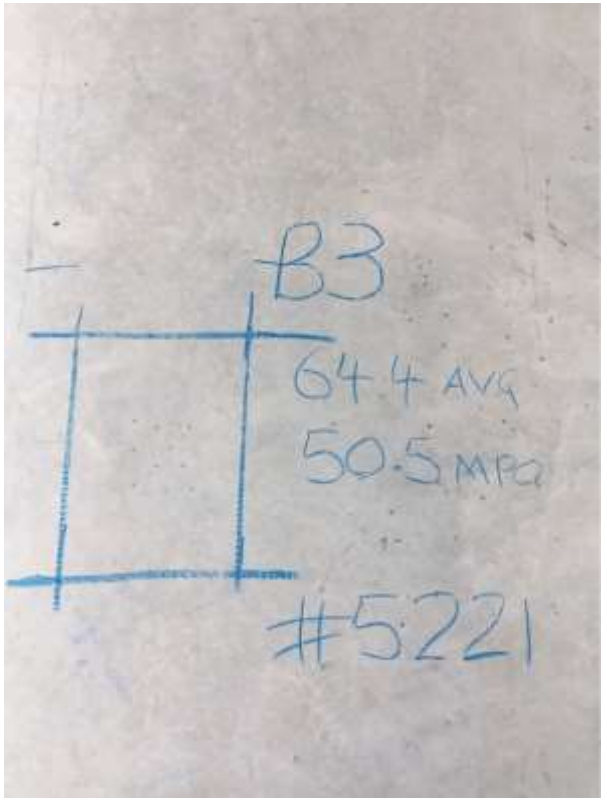
Date:

Drawn By:

3. Photos







B1, B2, B3 Testing has been conducted on the topside of the house slab, testing locations have been taken left to right looking towards the front of the property

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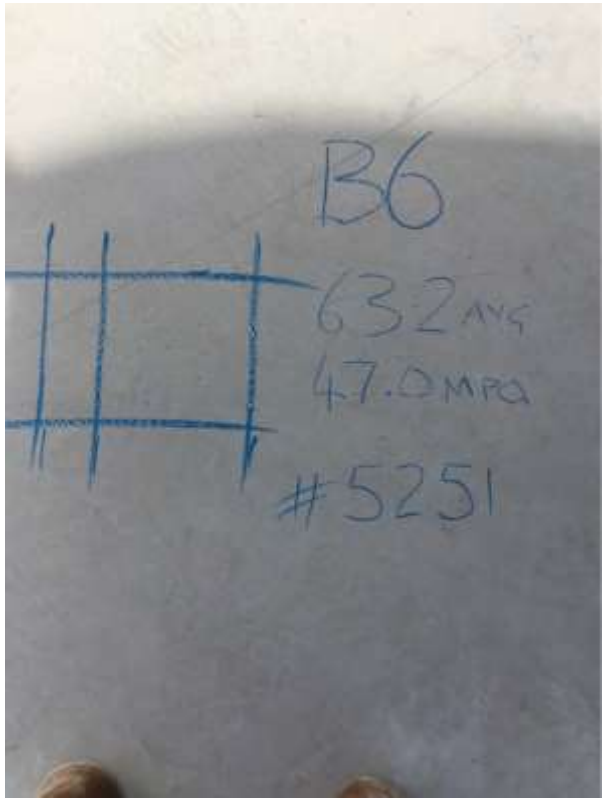
Site Address

Client

Date:

Drawn By:



B4, B5, B6 Testing has been conducted on the topside of the balcony slab, testing locations have been taken left to right looking towards the front of the property

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Site Address

Client

Date:

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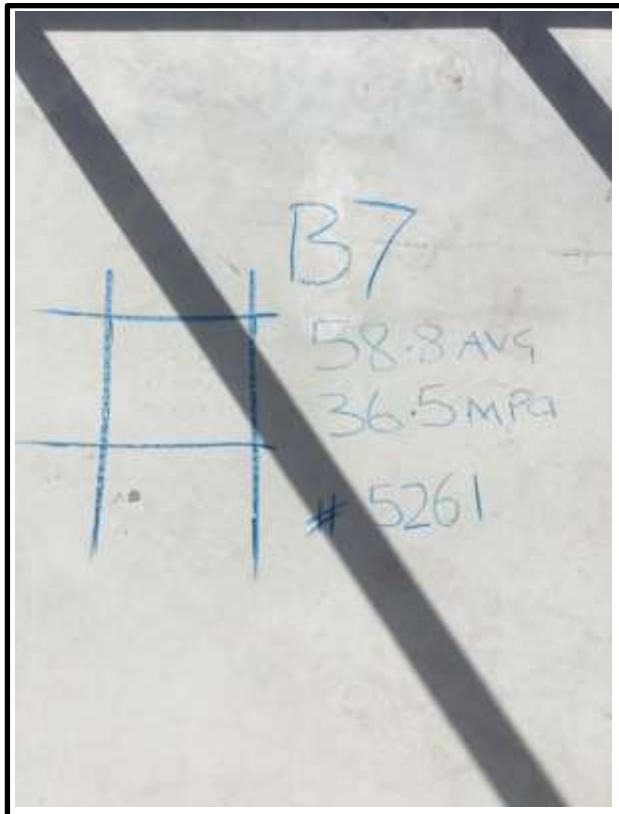

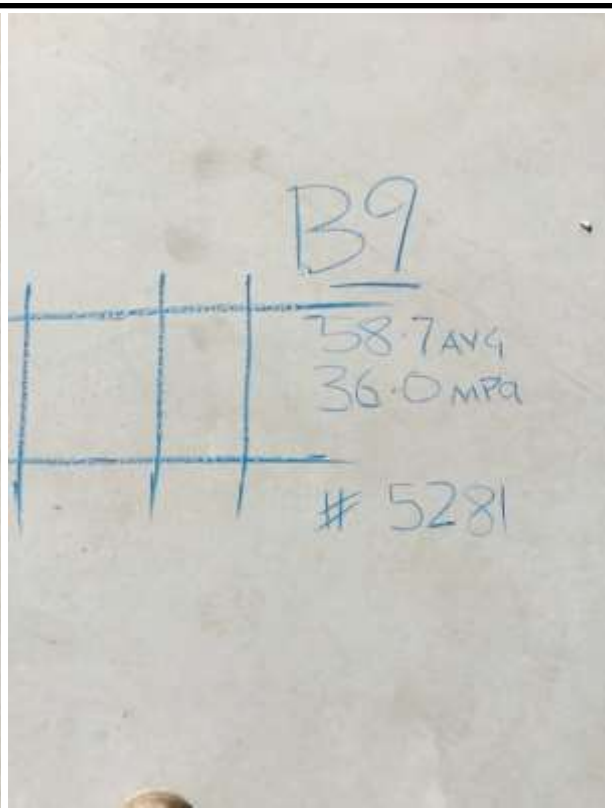

B7, B8, B9 Testing has been conducted on the topside of the balcony slab, testing locations have been taken left to right looking towards the front of the property

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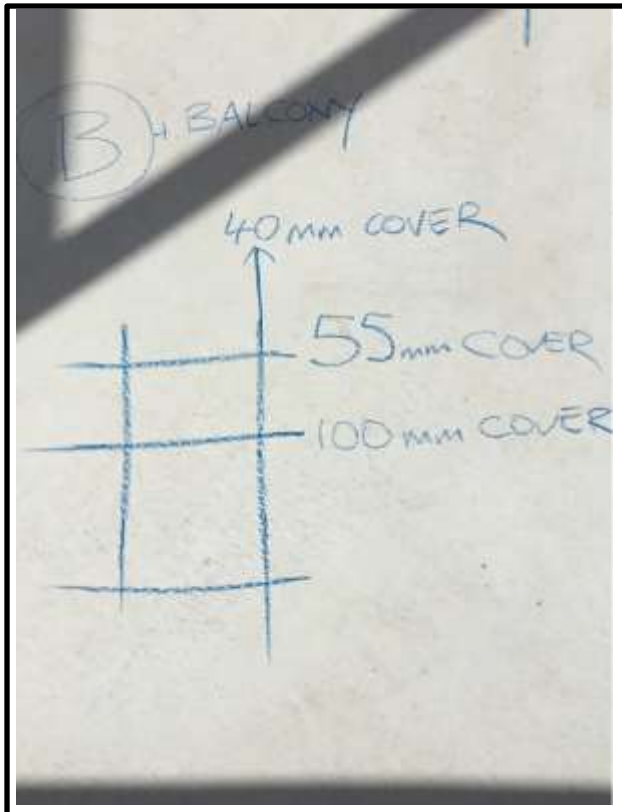
Site Address

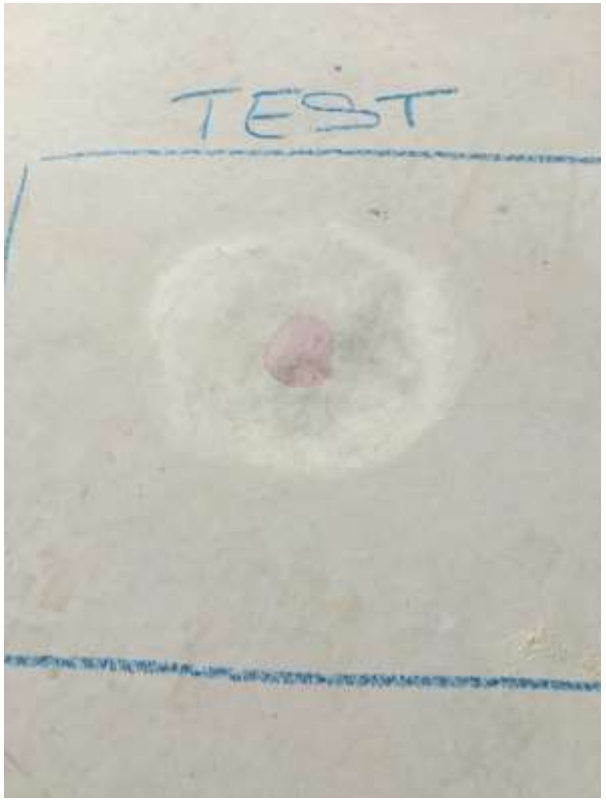
Client

Date:

Drawn By:



Showing 2 layers of reinforcement
Slab 160mm thick



Ph testing

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SiteAddress

Client

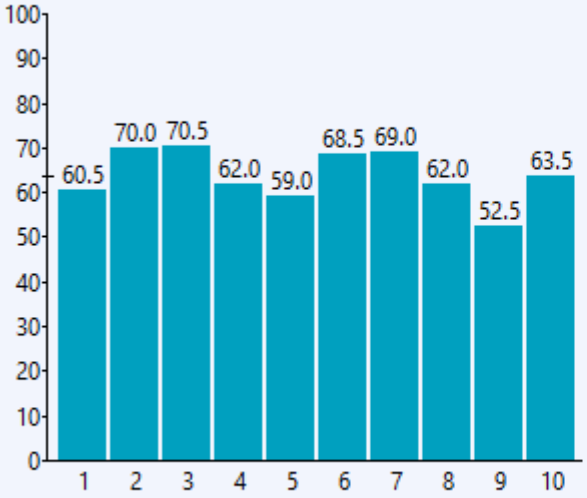
Date:

Drawn By:

UNITED SCANNING SERVICES PTY LTD

5111

Q-Values diagram [measurement order]



Q-Values
60.5
70.0
70.5
62.0
59.0
68.5
69.0
62.0
52.5
63.5

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 48.5 MPa (63.8 Q)
Standard deviation	s = 13.0 MPa (5.8 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (82%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

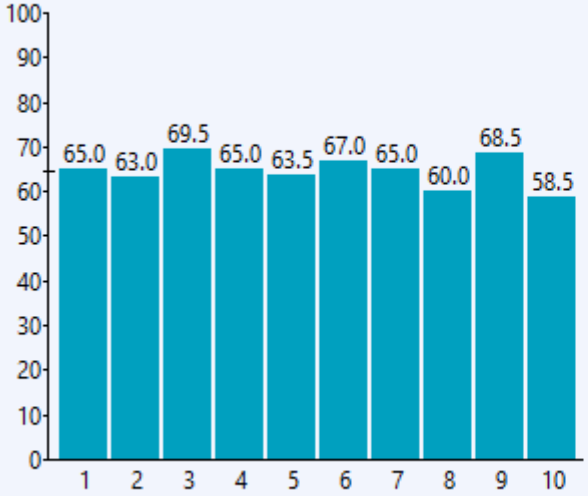
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5121

Q-Values diagram [measurement order]



Q-Values

65.0
63.0
69.5
65.0
63.5
67.0
65.0
60.0
68.5
58.5

Statistics

Measurements	N = 10
Invalid measurements	Ni= 0 (0%)
Mean value	f = 51.0 MPa (64.5 Q)
Standard deviation	s = 9.0 MPa (3.5 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (83%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

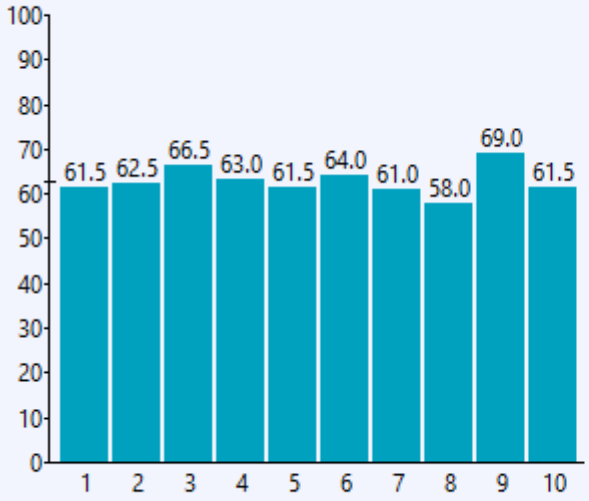
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5131

Q-Values diagram [measurement order]



Q-Values
61.5
62.5
66.5
63.0
61.5
64.0
61.0
58.0
69.0
61.5

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 46.5 MPa (62.9 Q)
Standard deviation	s = 8.3 MPa (3.1 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (82%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

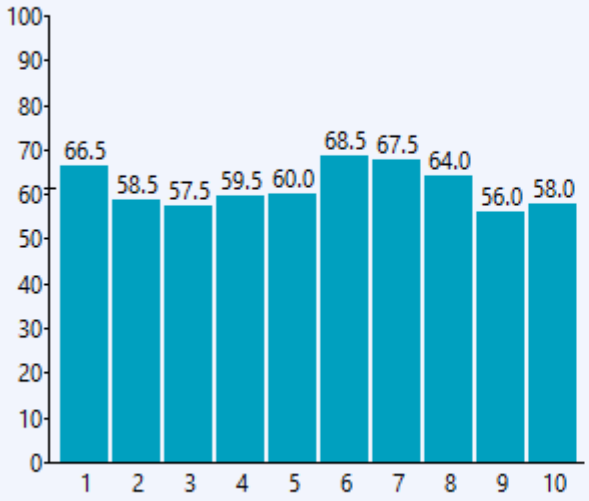
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5141

Q-Values diagram [measurement order]



Q-Values
66.5
58.5
57.5
59.5
60.0
68.5
67.5
64.0
56.0
58.0

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 42.5 MPa (61.6 Q)
Standard deviation	s = 10.3 MPa (4.6 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (80%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

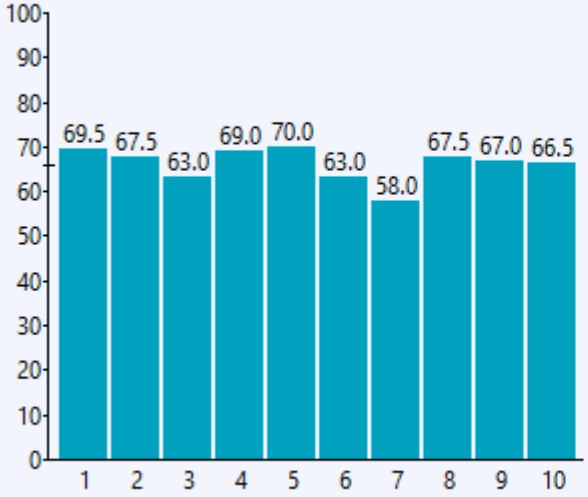
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5151

Q-Values diagram [measurement order]



Q-Values
69.5
67.5
63.0
69.0
70.0
63.0
58.0
67.5
67.0
66.5

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 55.0 MPa (66.1 Q)
Standard deviation	s = 9.0 MPa (3.7 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (83%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

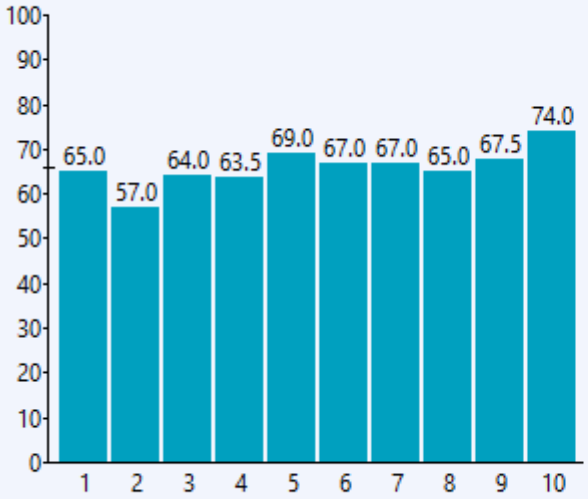
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5161

Q-Values diagram [measurement order]



Q-Values
65.0
57.0
64.0
63.5
69.0
67.0
67.0
65.0
67.5
74.0

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 54.5 MPa (65.9 Q)
Standard deviation	s = 11.0 MPa (4.4 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (83%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

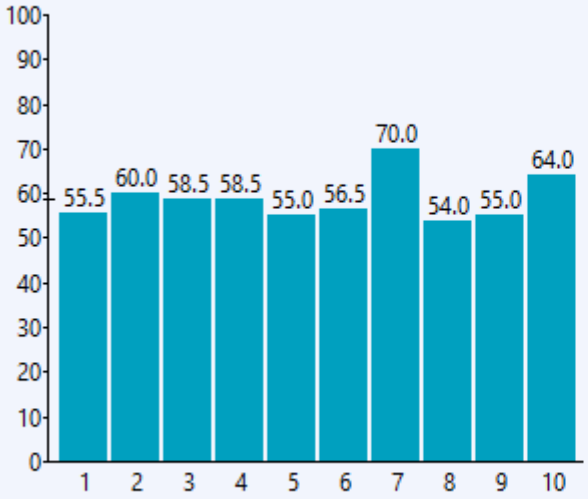
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5171

Q-Values diagram [measurement order]



Q-Values
55.5
60.0
58.5
58.5
55.0
56.5
70.0
54.0
55.0
64.0

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 36.0 MPa (58.7 Q)
Standard deviation	s = 9.0 MPa (5.0 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (78%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

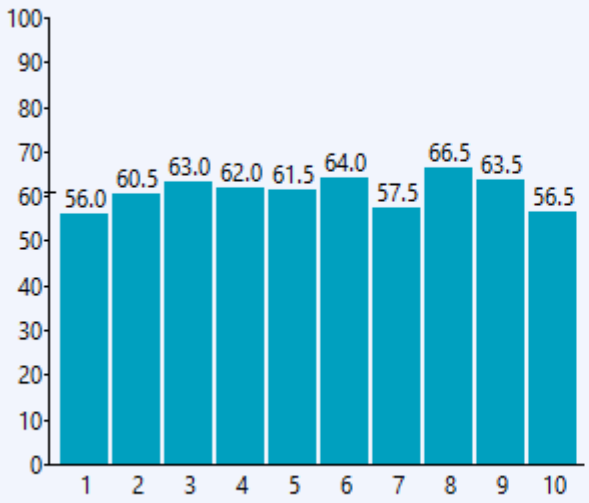
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5181

Q-Values diagram [measurement order]



Q-Values
56.0
60.5
63.0
62.0
61.5
64.0
57.5
66.5
63.5
56.5

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 41.5 MPa (61.1 Q)
Standard deviation	s = 7.8 MPa (3.5 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (80%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

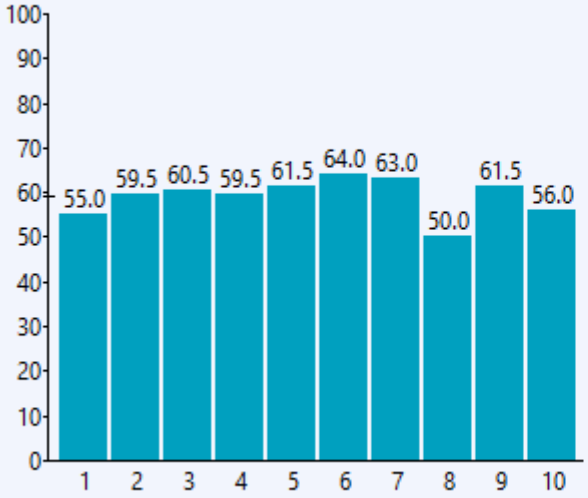
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5191

Q-Values diagram [measurement order]



Q-Values
55.0
59.5
60.5
59.5
61.5
64.0
63.0
50.0
61.5
56.0

Statistics

Measurements	N = 10
Invalid measurements	Ni= 0 (0%)
Mean value	f = 37.0 MPa (59.1 Q)
Standard deviation	s = 8.3 MPa (4.2 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (78%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

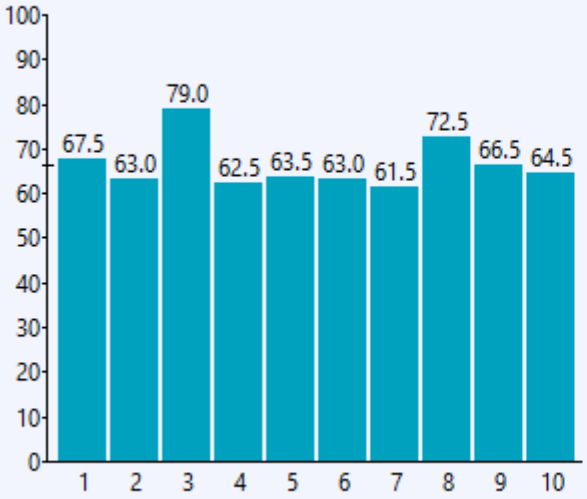
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5201

Q-Values diagram [measurement order]



Q-Values
67.5
63.0
79.0
62.5
63.5
63.0
61.5
72.5
66.5
64.5

Statistics

Measurements	N = 10
Invalid measurements	Ni= 0 (0%)
Mean value	f = 55.0 MPa (66.4 Q)
Standard deviation	s = 15.3 MPa (5.5 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (82%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

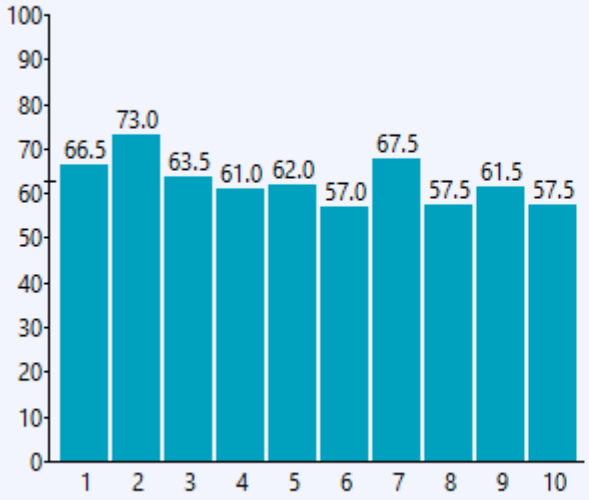
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5211

Q-Values diagram [measurement order]



Q-Values
66.5
73.0
63.5
61.0
62.0
57.0
67.5
57.5
61.5
57.5

Statistics

Measurements	N = 10
Invalid measurements	Ni= 0 (0%)
Mean value	f = 46.0 MPa (62.7 Q)
Standard deviation	s = 11.8 MPa (5.1 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (82%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

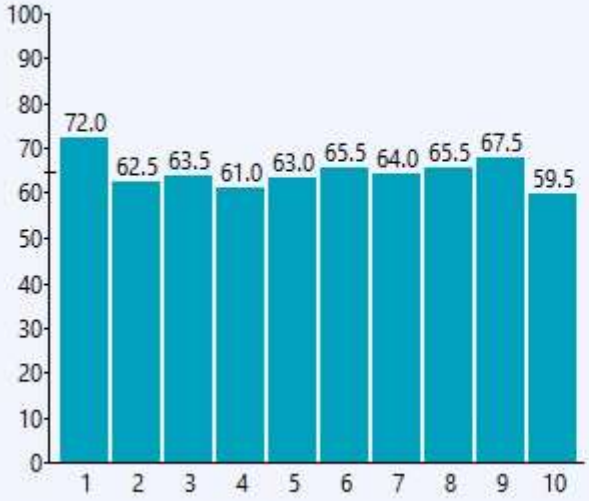
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5221

Q-Values diagram [measurement order]



Q-Values
72.0
62.5
63.5
61.0
63.0
65.5
64.0
65.5
67.5
59.5

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 50.5 MPa (64.4 Q)
Standard deviation	s = 9.0 MPa (3.5 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (83%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

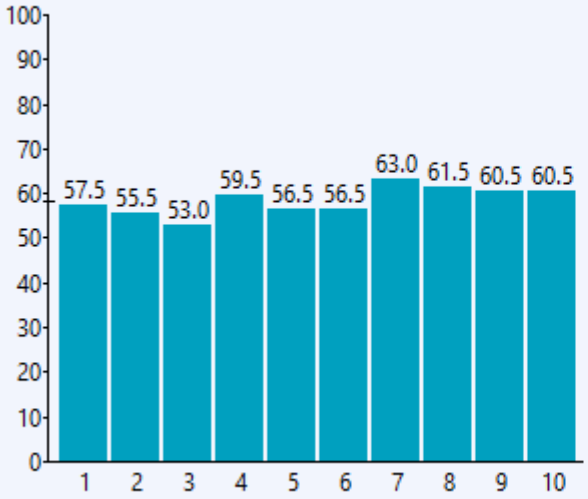
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5231

Q-Values diagram [measurement order]



Q-Values
57.5
55.5
53.0
59.5
56.5
56.5
63.0
61.5
60.5
60.5

Statistics

Measurements	N = 10
Invalid measurements	Ni= 0 (0%)
Mean value	f = 35.5 MPa (58.4 Q)
Standard deviation	s = 5.3 MPa (3.1 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (78%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

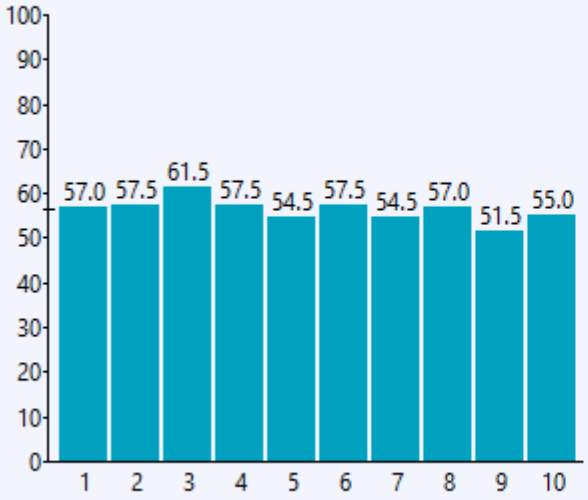
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5241

Q-Values diagram [measurement order]



Q-Values
57.0
57.5
61.5
57.5
54.5
57.5
54.5
57.0
51.5
55.0

Statistics

Measurements	N = 10
Invalid measurements	Ni= 0 (0%)
Mean value	f = 33.5 MPa (56.4 Q)
Standard deviation	s = 3.0 MPa (2.7 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (81%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

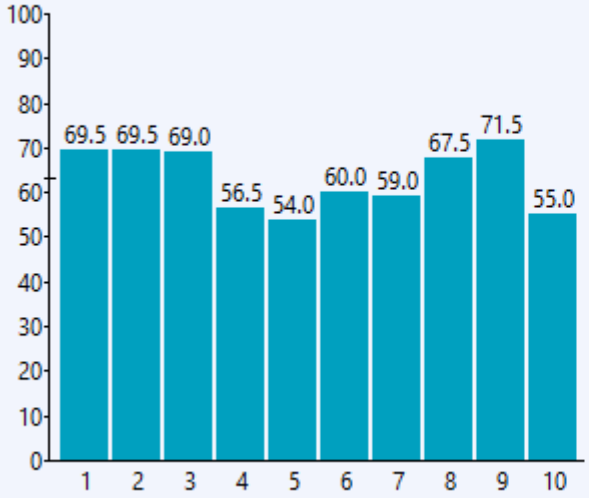
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5251

Q-Values diagram [measurement order]



Q-Values
69.5
69.5
69.0
56.5
54.0
60.0
59.0
67.5
71.5
55.0

Statistics

Measurements	N = 10
Invalid measurements	Ni= 0 (0%)
Mean value	f = 47.0 MPa (63.2 Q)
Standard deviation	s = 15.3 MPa (6.9 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (82%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

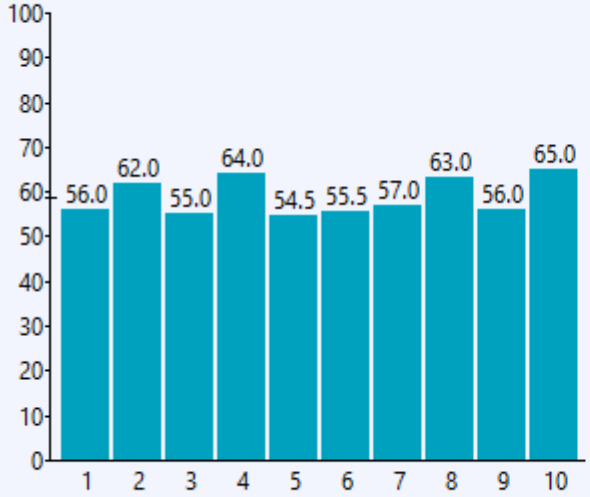
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5261

Q-Values diagram [measurement order]



Q-Values
56.0
62.0
55.0
64.0
54.5
55.5
57.0
63.0
56.0
65.0

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 36.5 MPa (58.8 Q)
Standard deviation	s = 7.8 MPa (4.2 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (78%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

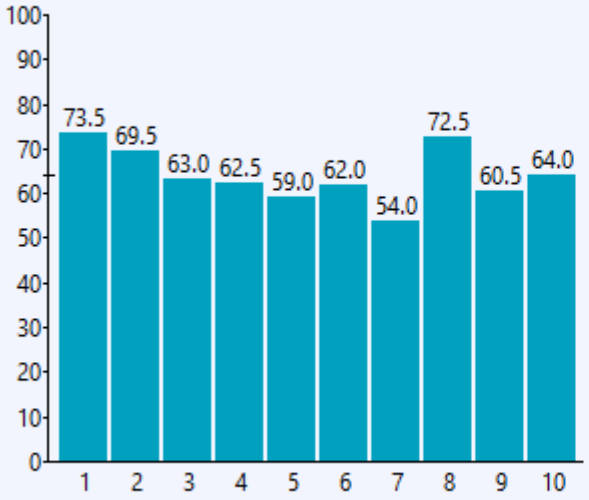
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5271

Q-Values diagram [measurement order]



Q-Values
73.5
69.5
63.0
62.5
59.0
62.0
54.0
72.5
60.5
64.0

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 50.0 MPa (64.1 Q)
Standard deviation	s = 14.3 MPa (6.1 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (83%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

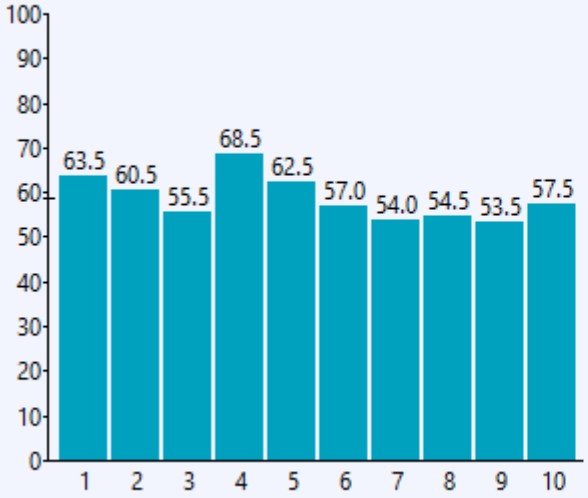
Comment

[Add]

UNITED SCANNING SERVICES PTY LTD

5281

Q-Values diagram [measurement order]



Q-Values
63.5
60.5
55.5
68.5
62.5
57.0
54.0
54.5
53.5
57.5

Statistics

Measurements	N = 10
Invalid measurements	Ni = 0 (0%)
Mean value	f = 36.0 MPa (58.7 Q)
Standard deviation	s = 8.8 MPa (4.9 Q)

Settings

Averaging mode	Mean
Conversion curve	10-percentile curve
Form factor	Cylinder (78%)
Carbonation factor	1.00
Unit	MPa
Serial number	SH01-007-0653
Spring type	SilverSchmidt N

Comment

[Add]

Top Down View

NORTH

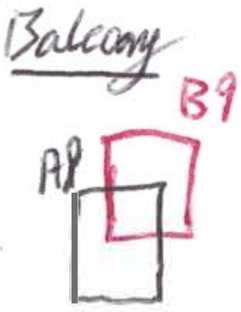
■ = UNDERSide of SlaB (B3)

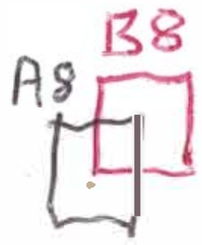
■ = Top of SlaB (B'S)

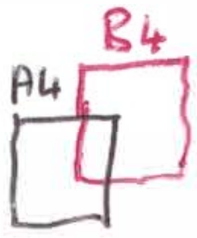
● = pH DRill samples Location

= Phenolphthalein Surface Testing Indicating A High PHResult.

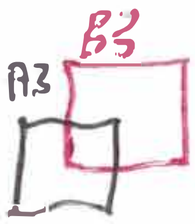
Balcony

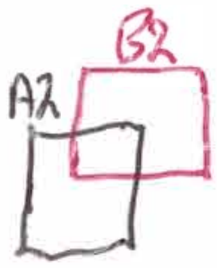


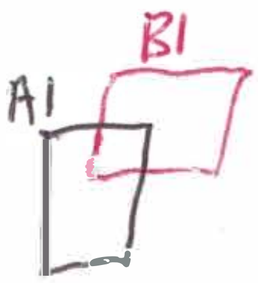




House







MORan Street

UNITED SCANNING
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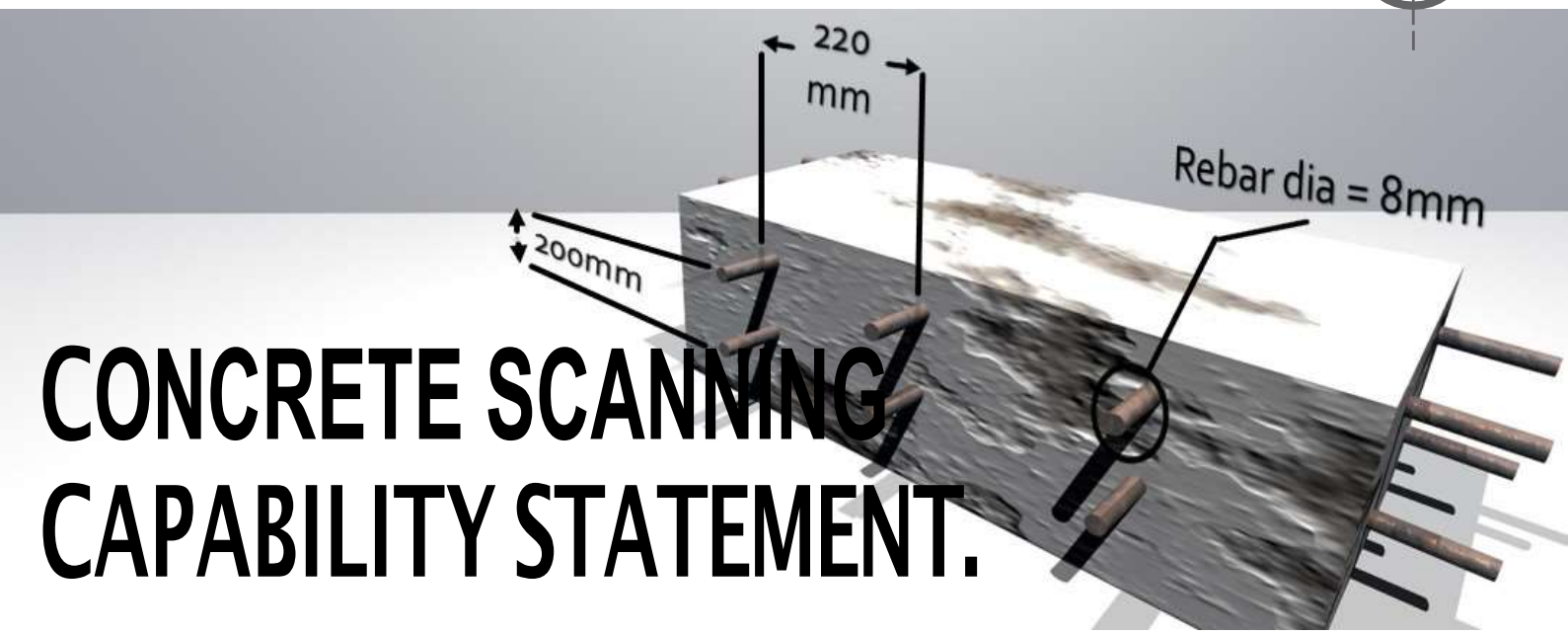
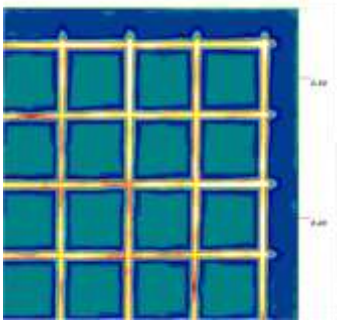


CONCRETE SCANNING CAPABILITY STATEMENT.

United Scanning services can provide what no one else in Perth is able to. Our 3D Ground Penetrating Radar (GPR) technology allows our experienced technicians to provide insights into concrete that allows for informed construction decisions. We provide the following services:

CONCRETE SCANNING

We offer GPR Concrete Scanning in a safe and timely manner with GSSI and Mala equipment. This includes:



- Location of safe areas to drill, cut or demolish
- Determine the location and depth of steel reinforcement, post tension cables, embedded metallic or plastic conduits in concrete slabs, walls or structural members
- Determine concrete slab thickness
- Structural inspections - bridges, monuments, walls, towers, tunnels, balconies
- Identify defects or damage inside concrete (voids, fractures)
- Quality inspection that identifies areas of delamination, tanking, honeycombing, cracks and voids Location of metallic and non-metallic targets in walls and floors
- Condition assessment - map relative concrete condition for rehabilitation planning
- NATA Accredited Lab testing

3D Imaging Technology

United Scanning use the best of GPR equipment including GSSI StructureScan and Mala CX Scanners.

ACCREDITED LOCATORS FOR

DIAL BEFORE YOU DIG
WESTERN POWER
ATCO GAS
AMCOM
WATER CORPORATION
TELSTRA

UNITED SCANNING
SERVICES PTY LTD

(08) 9294 1832 admin@unitedscanning.com.au unitedscanning.com.au
Level 8, 251 Adelaide Tce, Perth WA 6000

Safe Work Method Statement (SWMS)

Company Name: **United Scanning Service PTY LTD** **Project:** .

Company Address: Level 8, 251 Adelaide Tce Perth WA **ABN No.** 89 262 952 771

Job / Trade Activity: USE OF GROUND PENETRATING RADAR, to locate services, P.T cables and re bar. Core drilling.

SWMS Prepared by: **Name:** **Sign** **Date:**

Safe Work Method Statement (SWMS)

Emergency Company Contact Information

Contact: Matthew Hill
Position: Director
Phone: 0433 724 921
Email: matthew@unitedscanning.com.au

PERMITS TO WORK (✓)

- ☐ Work at Height *(unprotected over 2m)*
- ☐ Confined Space
- ☐ Hot Work
- ☐ Excavation
- ☑ Concrete Cutting/Drilling
- ☐ Other *(specify)*

MINIMUM PPE (✓)

- ☑ Safety Glasses (medium impact)
- ☑ Hi-Visibility vest or shirt
- ☑ Hard Hat
- ☑ Safety Footwear
- ☑ Hearing Protection (<85dB)
- ☐ Other *(specify)*

Safe Work Method Statement (SWMS)

EQUIPMENT / TOOLS (✓)

☑ Hazard Warning Signs
☑ Barricade or Guarding
☐ EWP (Scissor Lift / Boom Lift)
☑ Power Tools
☐ Scaffolds
☐ Portable Ladder(s)
☐ Safety Harness
☐ Other *(specify)*

LEGISLATION

WA Acts and Regulations

Building Regulations 1989
Dangerous Goods Safety Act 2004
Occupational Safety and Health Act 1984
Occupational Safety and Health Regulations 1996
Electricity Regulations 1947
Electricity (Licensing) Regulations 1991

WA Codes of Practice

(relevant to construction work, tick as applicable to work)

☑ Concrete and masonry cutting and drilling, 2010
☐ Excavation, 2005
☑ First aid, workplace amenities and personal protective clothing, 2002
☑ Manual handling, 2000
☑ Managing noise at workplaces, 2002
☐ Safe design of buildings and structures, 2008
☑ The Prevention of falls at workplaces, 2004
☐ Tilt-up and precast concrete construction, 2004
☑ Violence aggression and bullying at work, 2006
☑ Working hours, 2006

Safe Work Method Statement (SWMS)

National Standards

(relevant to construction, tick as applicable to work)

- ☑ National Standard for Construction Work [NOHSC:1016(2005)]
- ☑ Adopted National Exposure Standards For Atmospheric Contaminants In The Occupational Environment [NOHSC: 1003(1995)]
- ☑ National model regulation for the control of scheduled carcinogenic substances [NOHSC:1011(1995)]
- ☑ National Standard for Manual Tasks (2007)
- ☑ National OHS Certification Standard for Users and Operators of Industrial Equipment - 3rd Edition [NOHSC:1006(2001)]
- ☑ National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC:1015(2001)]
- ☑ National Model Regulation for the Control of Workplace Hazardous Substances
- ☑ National Standard for Licensing Persons Performing High Risk Work
- ☑ National Standard for Occupational Noise [NOHSC:1007(2000)]
- ☑ National Standard for Plant [NOHSC: 1010(1994)]
- ☐ National Standard for Synthetic Mineral

National Codes of Practice (relevant to construction work, tick as applicable to work)

- ☐ Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)]
- ☐ Code of Practice for the Management and Control of Asbestos in the Workplace [NOHSC:2018(2005)]
- ☑ Code of Practice for the Control of Scheduled Carcinogenic Substances [NOHSC:2014(1995)]
- ☑ National Code of Practice for Induction for Construction Work (May 2007)
- ☐ National Code of Practice for Precast, Tilt-up and Concrete Elements in Building Construction (2008)
- ☑ National Code of Practice for the Prevention of Falls in General Construction (2008)
- ☑ National Code of Practice for the Storage and Handing of Dangerous Goods [NOHSC:2017(2001)]
- ☑ National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC:2007(1994)]
- ☑ National Code of Practice for the Control of Work Related Exposure to Hepatitis and HIV (blood-borne) Viruses [NOHSC:2010(2003)]
- ☐ National Code of Practice for the Control and Safe Use of Inorganic Lead at Work [NOHSC:2015(1994)]
- ☑ National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]
- ☑ National Code of Practice for the Prevention of Muskuloskeletal Disorders Caused From Performing Manual Tasks
- ☑ National Code of Practice for Noise Management and Protection of Hearing at Work - 3rd Edition [NOHSC: 2009(2004)]
- ☐ National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)]

National Guidance Notes

- ☐ Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC: 3003(2005)]
- ☑ Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment 3rd Edition [NOHSC:3008(1995)] (HTML)
- ☑ Guidelines for Integrating OHS into National Industry Training Packages

Safe Work Method Statement (SWMS)

Australian Standards As quoted in legislation and codes of practice

Level	Description of Consequence or Impact	Consequence	Likelihood / Probability		
			L *Likely*	**M** *Moderate*	**U** Unlikely
H (1) ***(High level of harm)***	**Potential death, permanent disability or major structural failure/damage. Off-site environmental discharge/release not contained and significant long-term environmental harm.**	**H (1)** ***(High)***	**1**	**1**	**2**
M (2) ***(Medium level of harm)***	**Potential temporary disability or minor structural failure/damage. On-site environmental discharge/release contained, minor remediation required, short-term environmental harm.**	**M (2)** ***(Medium)***	**1**	**2**	**3**
L (3) **(*Low level of harm)***	**Incident that has the potential to cause persons to require first aid. On-site environmental discharge/release immediately contained minor level clean up with no short-term environmental harm.**	**L (3)** ***(Low)***	**2**	**3**	**3**

Level	Likelihood / Probability
Likely	**Could happen frequently**
Moderate	**Could happen occasionally**
Unlikely	**May occur only in exceptional circumstances**

	Health and Safety	*Environment*
Catastrophic	***Fatality or permanent disability (Class 1 incident)***	***High severity which has or may have permanent and/or irreversible effects (Level 1)***
Major	***Life threatening incident, Lost Time Injury or ongoing illness/health effects (Class 2 incident)***	***Medium severity which has or may have persistent but reversible effects (Level 2)***
Moderate	***Incident that requires medical treatment by a qualified medical practitioner (Class 3 incident)***	***Low severity which has short term and reversible effects (Level 3 incident)***
Minor	***Incident that may require first aid treatment only***	***Impact confined to area impacted by work operations***
Insignificant	***No injuries***	***Very low environmental impact, not noticeable***

Safe Work Method Statement (SWMS)

Elimination	**Eg Eliminate the need for a fall risk area by careful design**	**Most Effective**
Substitution	**Eg Barricading or enclosing the fall risk area with edge protection**	
Isolation	**Eg Isolating the hazard or practice from people involved in the work**	
Engineering	**Eg Using a fall injury prevention system**	**Least Effective**
Administrative	**Eg Procedures, training, warning signs, limiting exposure time**	
PPE	**Eg Use of Personal Protective Equipment**	

Risk Hierarchy of Control - **Preferred Order of Control Measures to Eliminate or reduce risks of injury or illness.**

To calculate Inherent and Residual risk, refer to '*Qualitative Risk Analysis Matrix: Level of Risk' on Page 2*

No	**Job Step** *(break the job down into steps)*	**Potential Hazards** *(what can harm you or others?)*	**Inherent Risk*** *(Likelihood x Consequence)*	**Controls & Checks Required** *(What are you going to do to carry out the work safely – apply risk hierarchy of control)*	**Who is Responsible?** *(Position Title)*	**Residual Risk*** *(Likelihood x Consequence)*

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

1	**General planning Scanning and Coring**	**Inadequate training / instruction / supervision.**	**M (2) *(Medium)***	**Matthew Hill to ensure all employees:** • **Attend a construction industry "Safety Awareness Course Blue Card.** • **Attend a site-specific induction.** • **Attend a Daily Prestart** **Provide supervision on the site.** **Make sure the employees are instructed in the correct use of:** • **Personal Protective Equipment (PPE).** • **Tools, equipment and plant** • **Hazardous substances and chemicals (Provide Material Safety Data Sheets - MSDS).** • **Clean work areas regularly.** **Ensure that Personnel contact Site Manager for the following;** • **Access to Site Inductions Swan** • **Ensure sign in complete** • **Plant equipment onsite** • **Hazardous substances** • **Swan Permit to Work to be opened prior to work commencing** • **Swan Core Drill Permit** **Deliver materials to a safe lay down area as close as possible to the work.** **Undertake Take 5 prior to commencing task.** **Note: If you identify additional risks and their control measures are not listed on this SWMS, set them out on an additional SWMS Worksheet and attach to the end of this SWMS**	**Matthew Hill/ Nathan Rose**	**L (3) *(Low)***

Safe Work Method Statement (SWMS)

2	**Inspect the work area before work begins for the day.**	**Hazards caused through work activity:** • **Obstructed access.** • **Poor housekeeping causing manual handling injuries/slips trips and falls.** • **Other personnel injured from other work activities.**	**M (2)** ***(Medium)***	• **Complete Take 5** • **Inspect the work area for hazards before work** • **Provide safe access to all work areas.** • **Clean up work areas on a regular basis.** • **Make sure signs and barriers are erected in areas where required.**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
3	**General planning**	**Areas been scanned for Core Holes** • **Electrical services**	**H (1)** ***(High)***	**Prior to scanning ensure all exposed electrical cables that are in the area to be scanned are made safe or switched off (this does not include cables in conduits that are the in slab that is been scanned)**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
4	**Scan Area where Core Holes required.**	**Manual Handling** **Slips and Trips**	**M (2)** ***(Medium)***	• **Equipment is brought to site via a trolley as required** • **Ensure work area is clear and free of obstacles**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
5	**Planning For Core Drilling** **- Arrive on site**	**- Site traffic and personal interference**	**M (2)** ***(Medium)***	**United Scanning employee/s** **- consult with site Superviser** **- Ensure Necessary Permits are obtained** **- Wear correct PPE before entering site** **- Take care during site movement** **- Sign In prior to undertaking work.**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***

Safe Work Method Statement (SWMS)

6	- Meet with client, discuss job - Site Induction	- Activity of other workers - General site environment eg. objects or liquids on the ground. - Inadequate training and supervision of employees	M (2) *(Medium)*	United Scanning employee/s Client - Wear correct PPE - Take care during site movement - Have a blue/white card - Attend site specific induction Shell / Swan - Attend Prestart and Tool box meetings - Ensure Relevant Permits Obtained - Check notice board - Ensure appropriate training and tickets have been acquired	Operator/ Nathan Rose	L (3) *(Low)*
7	- Check work area	- Unsafe work environments, eg excavations, confined spaces, chemical presence etc - Inadequate airflow - Inadequate lighting - Obstructed or insufficient access and/or egress - Poor housekeeping - Uncomfortable or cramped work conditions - Unstable footing - Work activity of others - Weather conditions	M (2) *(Medium)*	United Scanning employee/s Client • Inspect the work area for hazards • Eliminate hazards where possible. • Ensure appropriate measures are taken should hazards exist. • Raise any safety concerns with supervisor and do not conduct work activity until all safety concerns are adequately dealt with • Ensure safe access and egress is in place • Cleanup work area • Ensure there is adequate airflow • Ensure there is adequate lighting • Erect signs and barricading around area • Ensure firm footing • Ensure the weather conditions are conducive to safe work activity, i.e. comfortable working temperature and dry. Use sunscreen and wear trousers and long sleeve shirts when exposed to direct sunlight • Have First Aid Kit in close proximity and be familiar with first aid personal	Operator/ Nathan Rose	L (3) *(Low)*

8	**-General Planning and considerations**	**- Noise - Slurry, spark or shard projectiles - Slurry/water migration - Dust and mist - Fume build up - Insufficient propping, falling objects - Services being struck - Presence of other trades - Presence of general public There is an environmental risk due to; - Slurry entering drains and waterways**	**M (2) *(Medium)***	**United Scanning employee/s Client - Obtain permits (concrete cutting/core drilling/hot works) - Complete (United Scanning) general procedures and pre start checks - Ensure you and others in close proximity, are equipped with the appropriate PPE - Be aware of possible slurry, spark, shard projection and slurry migration, use vacuum to control slurry and additional guards to control possible projectiles - Check exit location of blade or barrel and likely slurry projection at exit points - Erect signage and bunt off area - Use spotter where necessary - Do not cut dry, use water - Ensure there is adequate air flow. Use extraction systems if necessary - Use correct propping where necessary - Communicate with other trades as to the impact of activity - Do not cut concrete in the presence of general public - Ensure by way of bunting, silt traps and wet vacs that the slurry will be properly contained and disposed of**	**Operator/ Nathan Rose**	**L (3) *(Low)***
9	**Set up; -Carry tools and equipment to work site -Set up tools and equipment, water hoses, slurry control and barricades**	**- Heavy equipment - Creation of obstacles - Spilling of fuel and oil - Faulty equipment - Faulty blades/barrels**	**M (2) *(Medium)***	**United Scanning employee/s - Limit load size - Use correct/alternative manual handling techniques - Keep work area neat and clean - Clear area of slip and trip hazards - Use lead hooks and stands - Be aware of surroundings -Wear correct PPE - Ensure regular workshop servicing and complete machinery pre start check lists - Check electrical tags - Ensure blades and bits are in good condition**	**Operator/ Nathan Rose**	**L (3) *(Low)***

Safe Work Method Statement (SWMS)

10	**Use of Hand Held Drill** **- Barrel jamming and twisting** **- Moisture entering motor** **- Incorrect technique** **- Entanglement** **- Fatigue**	• **Wrist injury** • **Electrocution** • **Body stress, strains, sprains**	**M (2)** ***(Medium)***	**United Scanning employee/s** • **Use correct PPE** • **Ensure operator is properly trained and competent** • **Employ proper technique, use both handles for support and/or to brace drill, grip drill firmly** • **Ensure drill is in the correct gear for hand held drilling and clutch is in good condition** • **Use drill rig for larger diameter core holes** • **Keep loose clothing clear** • **Keep hands and drill motor dry** • **Do not wear gloves while operating electric core drill or near rotating parts** • **Take frequent breaks** • **Do not hand drill above head height**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
11	**Use Electric Rig Mounted Drill** **- Fix anchor in concrete** **- Hammer drill jamming and twisting** **- Poor punch and lump-hammer contact**	**- Wrist injury** **- Hand injury** **- Line of Fire Injury**	**M (2)** ***(Medium)***	**United Scanning employee/s** **- Ensure operator is properly trained and competent** **- Employ proper technique** **- Ensure Line of Fire hazards identified**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
12	**- Mount rig, attach motor, tighten anchor bolt, tighten rig toes , attach barrel and position unit** **- Maneuvering heavy equipment**	**- Body stress, strains, sprains,**	**M (2)** ***(Medium)***	**United Scanning employee/s** **- Use correct/alternative manual handling techniques** **- Limit load size**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
13	**- Commence drilling**	**- Moisture entering motor** **- Entanglement** **- Fatigue** **- Electrocution**	**M (2)** ***(Medium)***	**United Scanning employee/s** **- Keep loose clothing clear of rotating parts** **- Keep hands and drill motor dry** **- Ensure Drill is tagged Current** **- Do not wear gloves while operating electric core drill or near rotating parts** **- Take frequent breaks**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***

Safe Work Method Statement (SWMS)

14	**- Remove concrete core**	**- Manual handling** **- Slip on core** **- Electrocution**	**M (2)** ***(Medium)***	**United Scanning employee/s** **- Employ proper technique** **- Dispose or core appropriately** **- Ensure personnel identify Line of fire hazards**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
15	**Housekeeping**	**Trips and slips.**	**M (2)** ***(Medium)***	**Housekeeping standards are adequate to prevent other trades, personnel or members of the public from slipping or tripping on materials or associated discarded rubbish.** • **Work areas are left clean and safe at the end of each working day.** • **To prevent injury from poor housekeeping make sure:** • **Workers are trained in good housekeeping practices.** • **Regular clean-ups occur throughout the working day and at the conclusion** • **Swan Permit to be closed on completion, of work.** **Discarded materials and rubbish is placed in designated areas or bins/skips.** **Access ways are not obstructed by rubbish from work activity.**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***
16	**Working near the public**	**injury to public:** • **Trips / slips / falls** • **Struck by plant**	**M (2)** ***(Medium)***	**When working near the public:** • **Erect rigid barriers and warning. Signs.** • **Follow site traffic management plan** • **Remove or make safe material stacks.** • **Make excavations safe or use a 1.8 metre security fence for open excavations.**	**Operator/ Nathan Rose**	**L (3)** ***(Low)***

Safe Work Method Statement (SWMS)

Revisions	1	2	3	4	5
Initial / Date	Jan 2011	July 2014	July 2015	Jan 2016	

Employees involved in consultation, development and acceptance of this Safe Work Method Statement

Print Name:	Signature	Date signed	Print Name:	Signature	Date signed
Chris Poole		22 May 19			

Personnel qualifications and experience required to complete the task *(eg work at heights training)*	**Specific training required to complete this task:**	**Engineering Details/Certificate/Regulatory Approvals**
Site Induction		
Construction Industry Safety Awareness Training		

Safe Work Method Statement (SWMS)

Job Safety Analysis Checklist

Safety Hazards

- ❒ Fall to below
- ❒ Fall to same level
- ❒ Dropped objects
- ❒ Struck against
- ❒ Struck by
- ❒ Caught between
- ❒ Cuts / Abrasion
- ❒ Flying particles
- ❒ Burns - Hot, Cold, Acid
- ❒ Contact with Chemicals
- ❒ Contact with Pressure
- ❒ Overstress, strain, sprain
- ❒ Fire
- ❒ Explosion
- ❒ Engulfment
- ❒ Oxygen deficiency / excess
- ❒ Atmospheric contaminants
- ❒ Electrical contact

Health Hazards

- ❒Heat Stress
- ❒Noise
- ❒Radiation
- ❒Vibration
- ❒Contact with Chemicals
- ❒ Dust
- ❒ Biological Hazards
- ❒ Synthetic Mineral Fibres
- ❒ Asbestos
- ❒ Atmospheric Contaminants

Environmental Hazards

- ❒Chemicals
- ❒ Chemical Spills

Safe Work Method Statement (SWMS)

❒**General Rubbish** ❒ **Hazardous Waste**