

PARTICULATE MATTER (PM10) DUST MONITORING RESULTS

07 March 2023

Attention:	Terry Gauci
Company:	AE Smith
Fax/email:	<u>terry.gauci@aesmith.com.au</u>
Address:	Level 4, Building B, 480 Victoria Road Gladesville, NSW, 2111

WESTMEAD HOSPITAL- PSB PROJECT - REDBANK ROAD, WESTMEAD, NSW, 2145

SWE Project No.: Sampling Date: Site Address: S110356 28/02/23 – 04/03/23 Westmead Hospital – PSB Site – Redbank Road, Westmead, NSW 2145 07:00 – 16:00

Period of Sampling:

DATE	SAMPLE ID.	LOCATION OF SAMPLE	Time on	Time off	Result TWA (mg/m³)
28/02/23	S110356/905/280223	Plant Room 342 - External	07:00	16:00	0.007
28/02/23	S110356/20220113/280223	Plant Room 544 - Internal	07:00	16:00	0.007
28/02/23	S110356/20222011/280223	Ford Civil Site Sheds - External	07:00	16:00	_*
28/02/23	S110356/202220115/280223	CASB – Level 4 Plant Room - Internal	07:00	16:00	0.008
01/03/23	S110356/905/010323	Plant Room 342 - External	07:00	16:00	0.027
01/03/23	S110356/20220113/010323	Plant Room 544 - Internal	07:00	16:00	0.011
01/03/23	S110356/20222011/010323	Ford Civil Site Sheds - External	07:00	16:00	_*
23/02/23	S110356/202220115/010323	CASB – Level 4 Plant Room - Internal	07:00	16:00	0.009
02/03/23	S110356/905/020323	Plant Room 342 - External	07:00	16:00	0.007
02/03/23	S110356/20220113/020323	Plant Room 544 - Internal	07:00	16:00	0.011
02/03/23	S110356/20222011/020323	Ford Civil Site Sheds - External	07:00	16:00	_*
02/03/23	S110356/202220115/020323	CASB – Level 4 Plant Room - Internal	07:00	16:00	0.006
03/03/23	S110356/905/030323	Plant Room 342 - External	07:00	16:00	0.011
03/03/23	S110356/20220113/030323	Plant Room 544 - Internal	07:00	16:00	0.008
03/03/23	S110356/20222011/030323	Ford Civil Site Sheds - External	07:00	16:00	_*

S110356-PM10-DustMonitoring-PSB-WestmeadHospital 280223-040323



DATE	SAMPLE ID.	LOCATION OF SAMPLE	Time on	Time off	Result TWA (mg/m³)
03/03/23	S110356/202220115/030323	CASB – Level 4 Plant Room - Internal	07:00	16:00	0.007
04/03/23	S110356/905/040323	Plant Room 342 - External	07:00	16:00	0.007
04/03/23	S110356/20220113/040323	Plant Room 544 - Internal	07:00	16:00	0.006
04/03/23	S110356/20222011/040323	Ford Civil Site Sheds - External	07:00	16:00	_*
04/03/23	S110356/202220115/040323	CASB – Level 4 Plant Room - Internal	07:00	16:00	0.006

• Monitor moved off site during the removal of Ford Civil Site Sheds

Sampling Description: Monitoring for atmospheric particulate matter PM10 dust was undertakento verify the effectiveness of control measures implemented to prevent dust release as a result of the car park demolition work.

Sampling Methodology: Dust monitoring was carried out in accordance with National Environment Protection (Ambient Air Quality) Measure (2016) using a 'TSI DustTrak II Aerosol Monitor' to measure dust levels (as mg/m³). The detection limit for the method is 0.001mg/m³.

Conclusion: All dust monitoring results reported on in this report are below the maximumpermissible Time Weighted Average (TWA) environmental guideline for PM10 of 0.05mg/m³ as perTable 1 of the National Environment Protection (Ambient Air Quality) Measure (2016).

Should you have any queries regarding this report please do not hesitate to contact the office on (02) 9494 0000 for further information or assistance.

Yours sincerely,

Terry Gauci | Regional Manager (Service)AE Smith, Nuvo & TGS



T1, L1, Trinity Business Campus, 39 Delhi Road, North Ryde, NSW 2113 T +61 2 9494 0000 | M +61 412 660 090 E: terry.gauci@aesmith.com.au



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07 March 2023

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Address:	Level 4, Building B, 480 Victoria Road Gladesville, NSW, 2111

WESTMEAD HOSPITAL- MSCP PROJECT - REDBANK ROAD, WESTMEAD, NSW, 2145

 SWE Project No.:
 S110356

 Sampling Date:
 28/02/23 – 06/03/23

 Site Address:
 Westmead Hospital – MSCP Site – Redbank Road, Westmead, NSW 2145

 Period of Sampling:
 07:00 – 16:00

DATE	SAMPLE ID.	LOCATION OF SAMPLE	Time on	Time off	Result TWA (mg/m³)
28/02/23	S110356/20220114/280223	Plant Room 933 - External	07:00	16:00	0.002
28/02/23	S110356/20220110/280223	Plant Room 932 - External	07:00	16:00	0.011
28/02/23	S110356/85300111709/280223	Plant Room 942 - Internal	07:00	16:00	0.002
28/02/23	S110356/220220113/280223	Plant Room 941 - External	07:00	16:00	*
28/02/23	S110356/20220112/280223	Plant Room 943 - External	07:00	16:00	0.014
28/02/23	S110356/85301122812/280223	Plant Room 931 - External	07:00	16:00	0.011
01/03/23	S110356/20220114/010323	Plant Room 933 - External	07:00	16:00	0.003
01/03/23	S110356/20220110/010323	Plant Room 932 - External	07:00	16:00	0.011
01/03/23	S110356/85300111709/010323	Plant Room 942 - Internal	07:00	16:00	0.003
01/03/23	S110356/220220113/010323	Plant Room 941 - External	07:00	16:00	_*
01/03/23	S110356/20220112/010323	Plant Room 943 - External	07:00	16:00	0.016
01/03/23	S110356/85301122812/010323	Plant Room 931 - External	07:00	16:00	0.003
02/03/23	S110356/20220114/020323	Plant Room 933 - External	07:00	16:00	0.001
02/03/23	S110356/20220110/020323	Plant Room 932 - External	07:00	16:00	0.008
02/03/23	S110356/85300111709/020323	Plant Room 942 - Internal	07:00	16:00	0.002
02/03/23	S110356/220220113/020323	Plant Room 941 - External	07:00	16:00	_*

S110356-PM10-DustMonitoring-MSCP-WestmeadHospital-280223-060323

AE Smith Service Pty Ltd ABN 43 116 882 154 T1, L1, Trinity Business Campus, 39 Delhi Road, North, Ryde, NSW 2113 t 1300 313 313



DATE	SAMPLE ID.	LOCATION OF SAMPLE	Time on	Time off	Result TWA (mg/m³)
02/03/23	S110356/20220112/020323	Plant Room 943 - External	07:00	16:00	0.012
02/03/23	S110356/85301122812/020323	Plant Room 931 - External	07:00	16:00	0.009
03/03/23	S110356/20220114/030323	Plant Room 933 - External	07:00	16:00	0.002
03/03/23	S110356/20220110/030323	Plant Room 932 - External	07:00	16:00	0.008
03/03/23	S110356/85300111709/030323	Plant Room 942 - Internal	07:00	16:00	0.002
03/03/23	S110356/220220113/030323	Plant Room 941 - External	07:00	16:00	_*
03/03/23	S110356/20220112/030323	Plant Room 943 - External	07:00	16:00	0.011
03/03/23	S110356/85301122812/030323	Plant Room 931 - External	07:00	16:00	0.01
04/03/23	S110356/20220114/040323	Plant Room 933 - External	07:00	16:00	0.001
04/03/23	S110356/20220110/040323	Plant Room 932 - External	07:00	16:00	0.007
04/03/23	S110356/85300111709/040323	Plant Room 942 - Internal	07:00	16:00	0.001
04/03/23	S110356/220220113/040323	Plant Room 941 - External	07:00	16:00	_*
04/03/23	S110356/20220112/040323	Plant Room 943 - External	07:00	16:00	0.008
04/03/23	S110356/85301122812/040323	Plant Room 931 - External	07:00	16:00	0.007
05/03/23	S110356/20220114/050323	Plant Room 933 - External	07:00	16:00	0.0007
05/03/23	S110356/20220110/050323	Plant Room 932 - External	07:00	16:00	0.005
05/03/23	S110356/85300111709/050323	Plant Room 942 - Internal	07:00	16:00	0.001
05/03/23	S110356/220220113/050323	Plant Room 941 - External	07:00	16:00	*
05/03/23	S110356/20220112/050323	Plant Room 943 - External	07:00	16:00	0.007
05/03/23	S110356/85301122812/050323	Plant Room 931 - External	07:00	16:00	0.005
06/03/23	S110356/20220114/060323	Plant Room 933 - External	07:00	16:00	0.001
06/03/23	S110356/20220110/060323	Plant Room 932 - External	07:00	16:00	0.002
06/03/23	S110356/85300111709/060323	Plant Room 942 - Internal	07:00	16:00	0.008
06/03/23	S110356/220220113/060323	Plant Room 941 - External	07:00	16:00	*
06/03/23	S110356/20220112/060323	Plant Room 943 - External	07:00	16:00	0.006
06/03/23	S110356/85301122812/060323	Plant Room 931 - External	07:00	16:00	0.006

S110356-PM10-DustMonitoring-MSCP-WestmeadHospital-280223-060323

* Could not access Plant Room due to roof works.

AE Smith Engineering Services mechanical energy fire hydraulics refrigeration

AE Smith Service Pty Ltd ABN 43 116 882 154 T1, L1, Trinity Business Campus, 39 Delhi Road, North, Ryde, NSW 2113 t 1300 313 313



Sampling Description: Monitoring for atmospheric particulate matter PM10 dust was undertakento verify the effectiveness of control measures implemented to prevent dust release as a result of the car park demolition work.

Sampling Methodology: Dust monitoring was carried out in accordance with National Environment Protection (Ambient Air Quality) Measure (2016) using a 'TSI DustTrak II Aerosol Monitor' to measure dust levels (as mg/m³). The detection limit for the method is 0.001mg/m³.

Conclusion: All dust monitoring results reported on in this report are below the maximumpermissible Time Weighted Average (TWA) environmental guideline for PM10 of 0.05mg/m³ as perTable 1 of the National Environment Protection (Ambient Air Quality) Measure (2016).

Should you have any queries regarding this report please do not hesitate to contact the office on

(02) 9494 0000 for further information or assistance.

Yours sincerely,

Terry Gauci | Regional Manager (Service)AE Smith, Nuvo & TGS



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JBS&G 62915/150924 DMR001 (Dust Monitoring Report, Multi-Storey Car Park Stage 2 Works) Rev 0

21 March 2023

Ford Civil Contracting Pty Ltd Danny Khal Project Manager Via email: Danny.Khal@fordcivil.com.au

DMR001: Dust Monitoring Report (PM₁₀) Multi-Storey Car Park Redevelopment Stage 2 Works, Redbank Road, Westmead NSW

Dear Danny,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Ford Civil Constructions Pty Ltd, (FCC, the Client) to conduct dust monitoring for the Multi-Storey Car Park (MSCP) Redevelopment, located at Children's Hospital at Westmead (CHW), Redbank Road, NSW 2145 (the site). This report presents the results of representative dust monitoring conducted as part of the MSCP excavation works on **Tuesday 7 March 2023** to **Saturday 11 March 2023**.

2. Standards

A maximum concentration limit of 50 μ g/m³ (0.05 mg/m³) for particles 10 microns or less (PM₁₀) was adopted from the *National Environment Protection (Ambient Air Quality) Measure (NEPM)* (2021¹).

3. Sampling Methodology

Concentrations of PM₁₀ were sampled using a calibrated TSI DustTrak II Aerosol Monitor. Dust monitoring locations are presented in **Figure 1**, **Attachment 2**. Ambient air conditions were measured at one external stationary location between the hours of main construction works (0800-1700), returning an average concentration of PM₁₀ across 10-minute time-weighted intervals.

4. Results

Table 1 – PM10 Dust Mon	itoring Summary	1

Dust Monitor Location	Monday 6 March 2023	Tuesday 7 March 2023	Wednesday 8 March 2023	Thursday 9 March 2023	Friday 10 March 2023	Saturday 11 March 2023	Criteria Exceedance?
Location 1 (Central Portion of MSCP) Daily Average concentration of PM ₁₀ (mg/m ³)	N/A	0.034	0.022	0.039	0.022	0.046	No

¹ National Environment Protection (Ambient Air Quality) Measure, Department of the Environment (NEPM, 2021)

5. Discussion

No criteria exceedances were reported for the representative dust monitoring conducted at the site between **Tuesday 7 March 2023** to **Saturday 11 March 2023**.

6. Conclusions

Based on the results of the sampling events, and subject to the limitations included in **Attachment 1**, it is concluded that concentrations of daily average dust results measured were below the adopted site criteria of 0.05 mg/m³.

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email <u>MLe@jbsg.com.au</u>.

Yours sincerely:

had

Michael Le Environmental Consultant / Occupational Hygienist JBS&G Australia Pty Ltd

Attachments:

(1) Limitations

(2) Figures

Reviewed and Approved by:

Michael Samuel Senior Associate Consultant JBS&G Australia Pty Ltd

Attachment 1 – Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquires.

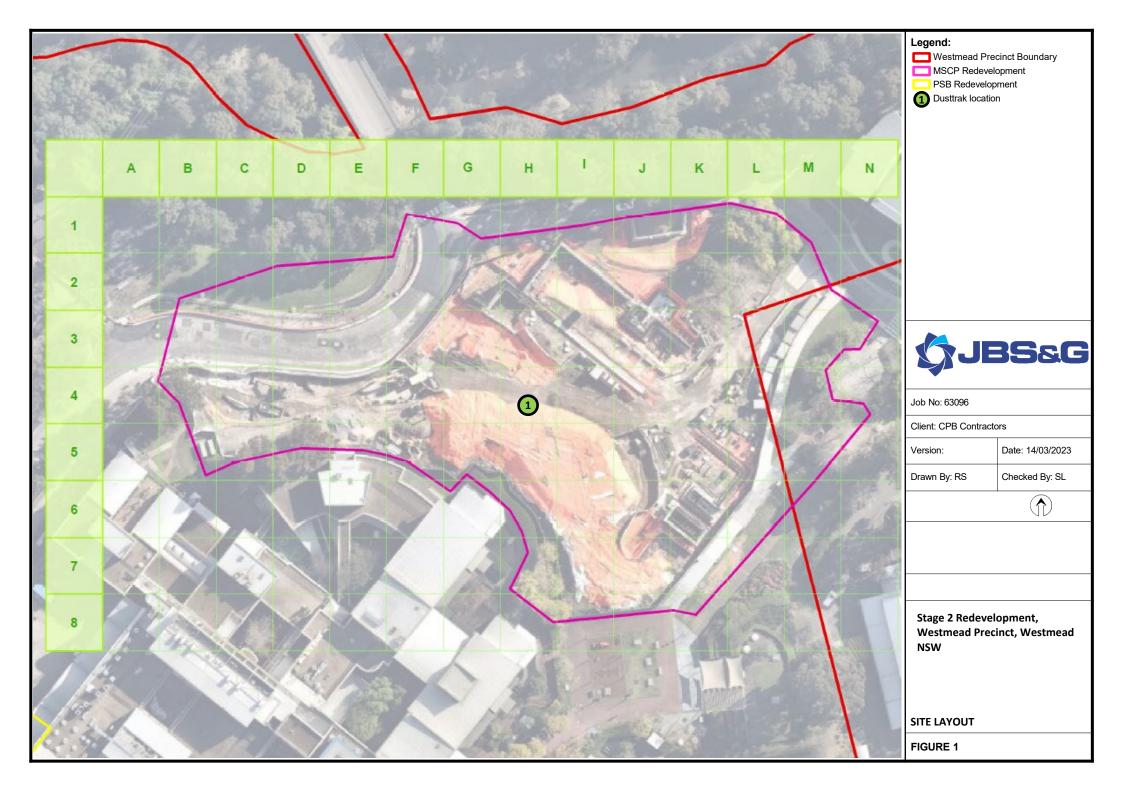
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Attachment 2 – Figures





JBS&G 62915/150936 DMR002 (Dust Monitoring Report, Multi-Storey Car Park Stage 2 Works) Rev 0

21 March 2023

Ford Civil Contracting Pty Ltd Danny Khal Project Manager Via email: Danny.Khal@fordcivil.com.au

DMR002: Dust Monitoring Report (PM₁₀) Multi-Storey Car Park Redevelopment Stage 2 Works, Redbank Road, Westmead NSW

Dear Danny,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Ford Civil Constructions Pty Ltd, (FCC, the Client) to conduct dust monitoring for the Multi-Storey Car Park (MSCP) Redevelopment, located at Children's Hospital at Westmead (CHW), Redbank Road, NSW 2145 (the site). This report presents the results of representative dust monitoring conducted as part of the MSCP excavation works on **Monday 13 March 2023** to **Saturday 18 March 2023**.

2. Standards

A maximum concentration limit of 50 μ g/m³ (0.05 mg/m³) for particles 10 microns or less (PM₁₀) was adopted from the *National Environment Protection (Ambient Air Quality) Measure (NEPM)* (2021¹).

3. Sampling Methodology

Concentrations of PM₁₀ were sampled using a calibrated TSI DustTrak II Aerosol Monitor. Dust monitoring locations are presented in **Figure 1**, **Attachment 2**. Ambient air conditions were measured at one external stationary location between the hours of main construction works (0800-1700), returning an average concentration of PM₁₀ across 10-minute time-weighted intervals.

4. Results

Table 1 – PM10 Dust Mon	itoring Su	mmary	

Dust Monitor Location	Monday 13 March 2023	Tuesday 14 March 2023	Wednesday 15 March 2023	Thursday 16 March 2023	Friday 17 March 2023	Saturday 18 March 2023	Criteria Exceedance?
Location 1 (Central Portion of MSCP) Daily Average concentration of PM ₁₀ (mg/m ³)	0.031	0.022	0.011	0.012	0.034	0.036	No

¹ National Environment Protection (Ambient Air Quality) Measure, Department of the Environment (NEPM, 2021)

5. Discussion

No criteria exceedances were reported for the representative dust monitoring conducted at the site between **Monday 13 March 2023** to **Saturday 18 March 2023**.

6. Conclusions

Based on the results of the sampling events, and subject to the limitations included in **Attachment 1**, it is concluded that concentrations of daily average dust results measured were below the adopted site criteria of 0.05 mg/m³.

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email <u>MLe@jbsg.com.au</u>.

Yours sincerely:

had

Michael Le Environmental Consultant / Occupational Hygienist JBS&G Australia Pty Ltd

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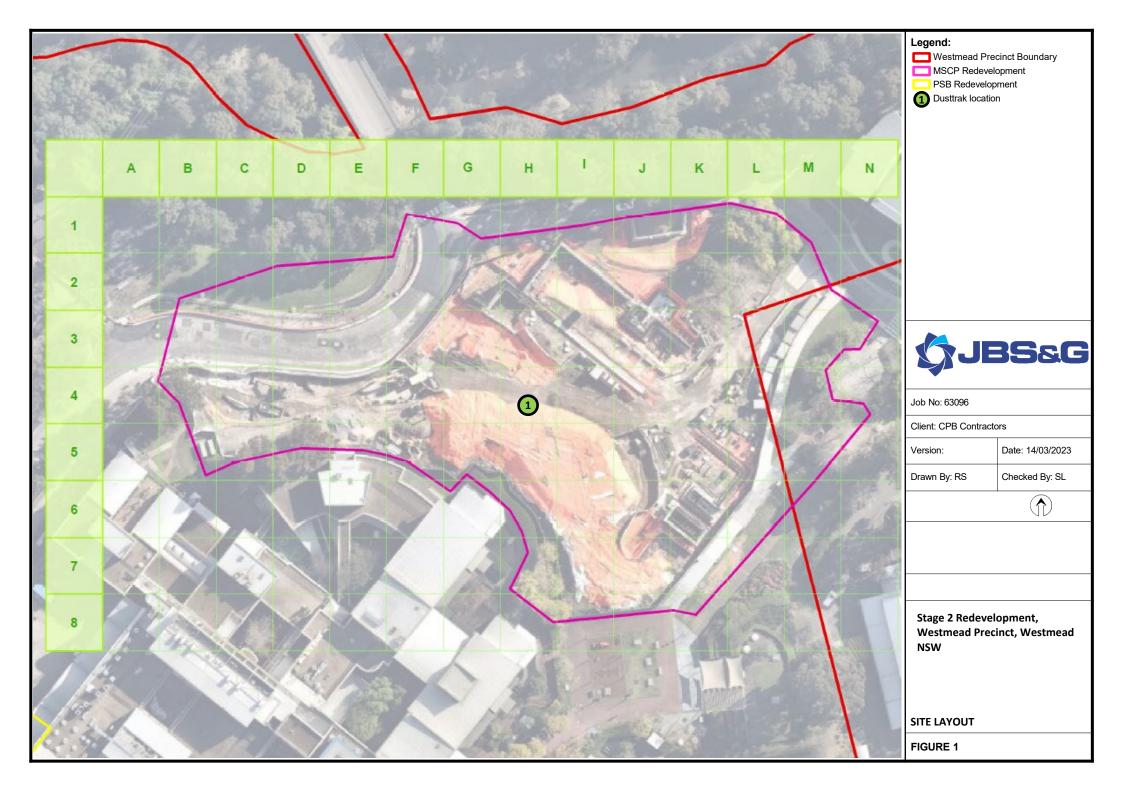
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Attachment 2 – Figures





JBS&G (62915/151,105) DMR003 (Dust Monitoring Report, Multi-Storey Car Park Stage 2 Works) Rev 0

28 March 2023

Ford Civil Contracting Pty Ltd Danny Khal Project Manager Via email: Danny.Khal@fordcivil.com.au

DMR003: Dust Monitoring Report (PM₁₀) Multi-Storey Car Park Redevelopment Stage 2 Works, Redbank Road, Westmead NSW

Dear Danny,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Ford Civil Constructions Pty Ltd, (FCC, the Client) to conduct dust monitoring for the Multi-Storey Car Park (MSCP) Redevelopment, located at Children's Hospital at Westmead (CHW), Redbank Road, NSW 2145 (the site). This report presents the results of representative dust monitoring conducted as part of the MSCP excavation works on **Monday 20 March 2023** to **Saturday 25 March 2023**.

2. Standards

A maximum concentration limit of 50 μ g/m³ (0.05 mg/m³) for particles 10 microns or less (PM₁₀) was adopted from the *National Environment Protection (Ambient Air Quality) Measure (NEPM)* (2021¹).

3. Sampling Methodology

Concentrations of PM₁₀ were sampled using a calibrated TSI DustTrak II Aerosol Monitor. Dust monitoring locations are presented in **Figure 1**, **Attachment 2**. Ambient air conditions were measured at one external stationary location between the hours of main construction works (0800-1700), returning an average concentration of PM₁₀ across 10-minute time-weighted intervals.

4. Results

Table 1 – PM10 Dust Mon	itoring Su	immary	

Dust Monitor Location	Monday 20 March 2023	Tuesday 21 March 2023	Wednesday 22 March 2023	Thursday 23 March 2023	Friday 24 March 2023	Saturday 25 March 2023	Criteria Exceedance?
Location 1 (Central Portion of MSCP) Daily Average concentration of PM ₁₀ (mg/m ³)	0.015	0.011	0.015	0.018	0.009	0.005	No

¹ National Environment Protection (Ambient Air Quality) Measure, Department of the Environment (NEPM, 2021)

5. Discussion

No criteria exceedances were reported for the representative dust monitoring conducted at the site between **Monday 20 March 2023** to **Saturday 25 March 2023**.

6. Conclusions

Based on the results of the sampling events, and subject to the limitations included in **Attachment 1**, it is concluded that concentrations of daily average dust results measured were below the adopted site criteria of 0.05 mg/m³.

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email <u>MLe@jbsg.com.au</u>.

Yours sincerely:

had

Michael Le Environmental Consultant / Occupational Hygienist JBS&G Australia Pty Ltd

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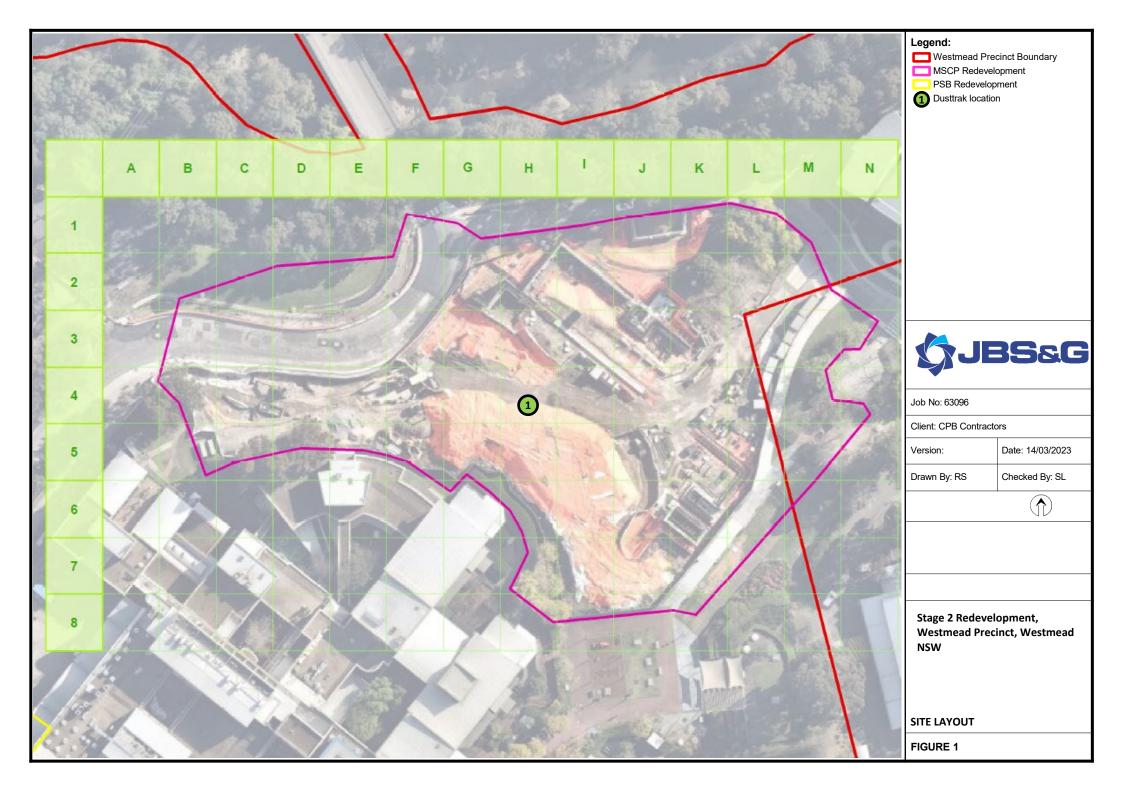
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Attachment 2 – Figures





JBS&G (62915/151,233) DMR004 (Dust Monitoring Report, Multi-Storey Car Park Stage 2 Works) Rev 0

3 April 2023

Ford Civil Contracting Pty Ltd Danny Khal Project Manager Via email: Danny.Khal@fordcivil.com.au

DMR004: Dust Monitoring Report (PM₁₀) Multi-Storey Car Park Redevelopment Stage 2 Works, Redbank Road, Westmead NSW

Dear Danny,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Ford Civil Constructions Pty Ltd, (FCC, the Client) to conduct dust monitoring for the Multi-Storey Car Park (MSCP) Redevelopment, located at Children's Hospital at Westmead (CHW), Redbank Road, NSW 2145 (the site). This report presents the results of representative dust monitoring conducted as part of the MSCP excavation works on **Monday 27 March 2023** to **Saturday 1 April 2023**.

2. Standards

A maximum concentration limit of 50 μ g/m³ (0.05 mg/m³) for particles 10 microns or less (PM₁₀) was adopted from the *National Environment Protection (Ambient Air Quality) Measure (NEPM)* (2021¹).

3. Sampling Methodology

Concentrations of PM₁₀ were sampled using a calibrated TSI DustTrak II Aerosol Monitor. Dust monitoring locations are presented in **Figure 1**, **Attachment 2**. Ambient air conditions were measured at one external stationary location between the hours of main construction works (0800-1700), returning an average concentration of PM₁₀ across 10-minute time-weighted intervals.

4. Results

Dust Monitor Location	Monday 27	Tuesday 28	Wednesday 29	Thursday 30	Friday 31	Saturday	Criteria
	March 2023	March 2023	March 2023	March 2023	March 2023	April 2023	Exceedance?
Location 1 (Central Portion of MSCP) Daily Average concentration of PM ₁₀ (mg/m ³)	0.010	0.013	0.008	0.008	0.004	0.005	No

Table 1 – PM10 Dust Monitoring Summary

¹ National Environment Protection (Ambient Air Quality) Measure, Department of the Environment (NEPM, 2021)

5. Discussion

No criteria exceedances were reported for the representative dust monitoring conducted at the site between **Monday 27 March 2023** to **Saturday 1 April 2023**.

6. Conclusions

Based on the results of the sampling events, and subject to the limitations included in **Attachment 1**, it is concluded that concentrations of daily average dust results measured were below the adopted site criteria of 0.05 mg/m³.

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email <u>MLe@jbsg.com.au</u>.

Yours sincerely:

ichael

Michael Le Environmental Consultant / Occupational Hygienist JBS&G Australia Pty Ltd

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(1) Limitations

(2) Figures

Reviewed and Approved by:

Michael Samuel Senior Associate Consultant JBS&G Australia Pty Ltd

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This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

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Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Attachment 2 – Figures

