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REPORT OF BOREHOLE: CRR 218

SHEET: 1 OF 5

CLIENT: Aecom Australia Pty Ltd

COORDS: 503284.93 m E 6959923.00 m N MGA94 56

DRILL RIG: FOX B40

PROJECT: Cross River Rail

SURFACE RL: 14.31 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Vulture St Off Ramp

INCLINATION: -90°

LOGGED: AXB





DATE: 13/9/10

JOB NO: 107632034

HOLE DEPTH: 44.33 m

CHECKED: NK

DATE: 18/10/10

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
			0	14.31	0.00-3.00 m				Sandy SILT non plastic, brown, fine to coarse sand, with some angular gravel fragments Sandy CLAY low plasticity, brown red, with subangular gravel and sand, moist		M		
			0.20										
			14.11										
			1										
			2										
			3										
			4	4.00					TUFF fine to coarse, orange and white, long portion of clay (weathered rock)				
			10.31										
			5										
			6										
			7										
			8										
			9										
			10	10.00									

This report of borehole must be read in conjunction with accompanying notes and abbreviations. It has been prepared for geotechnical purposes only, without attempt to assess possible contamination. Any references to potential contamination are for information only and do not necessarily indicate the presence or absence of soil or groundwater contamination.

GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: CRR 218

SHEET: 2 OF 5

CLIENT: Aecom Australia Pty Ltd

COORDS: 503284.93 m E 6959923.00 m N MGA94 56

DRILL RIG: FOX B40

PROJECT: Cross River Rail

SURFACE RL: 14.31 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Vulture St Off Ramp

INCLINATION: -90°

LOGGED: AXB


DATE: 13/9/10

JOB NO: 107632034

HOLE DEPTH: 44.33 m

CHECKED: NK

DATE: 18/10/10

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
			10	4.31				TUFF fine to coarse, orange and white, long portion of clay (weathered rock) slightly less weathered				
			11									
			12									
			13									
			14									
			15									
			16									
			17									
			18									
			19									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: CRR 218

SHEET: 3 OF 5

CLIENT: Aecom Australia Pty Ltd

COORDS: 503284.93 m E 6959923.00 m N MGA94 56

DRILL RIG: FOX B40

PROJECT: Cross River Rail

SURFACE RL: 14.31 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Vulture St Off Ramp

INCLINATION: -90°

LOGGED: AXB DATE: 13/9/10

JOB NO: 107632034

HOLE DEPTH: 44.33 m

CHECKED: NK DATE: 18/10/10

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
			20						TUFF fine to coarse, orange and white, long portion of clay (weathered rock)				
			21										
			22										
			23	23.00 23.12 -8.81					Sandy CLAY low plasticity, grey CONGLOMERATE fine to coarse, pale grey white dark grey				
			24										
			25	25.75 -11.44					SILTSTONE dark grey with pale grey bands				
			26										
			27										
			28	27.72 -13.41					META SILTSTONE fine, pale green with grey				
			29										
			30	30.00									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: CRR 218

SHEET: 4 OF 5

CLIENT: Aecom Australia Pty Ltd

COORDS: 503284.93 m E 6959923.00 m N MGA94 56

DRILL RIG: FOX B40

PROJECT: Cross River Rail

SURFACE RL: 14.31 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Vulture St Off Ramp

INCLINATION: -90°

LOGGED: AXB

DATE: 13/9/10

JOB NO: 107632034

HOLE DEPTH: 44.33 m

CHECKED: NK

DATE: 18/10/10

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
			30	-15.69					META SILTSTONE fine, pale green with grey appearance of quartz bands			
			31									
			32									
			33									
			34									
			35									
			36									
			37									
			38									
			39									
			40									

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GAP gINT FN. F01a
RL3



REPORT OF BOREHOLE: CRR 218

SHEET: 5 OF 5

CLIENT: Aecom Australia Pty Ltd

COORDS: 503284.93 m E 6959923.00 m N MGA94 56

DRILL RIG: FOX B40

PROJECT: Cross River Rail

SURFACE RL: 14.31 m DATUM: AHD

CONTRACTOR: Schneider Drilling Pty Ltd

LOCATION: Vulture St Off Ramp

INCLINATION: -90°

LOGGED: AXB

DATE: 13/9/10

JOB NO: 107632034

HOLE DEPTH: 44.33 m

CHECKED: NK

DATE: 18/10/10

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
			40						META SILTSTONE fine, pale green with grey				
			41										
			42										
			43										
			44										
			-30.02						END OF BOREHOLE @ 44.33 m				
			45										
			46										
			47										
			48										
			49										
			50										

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GAP gINT FN. F01a
RL3

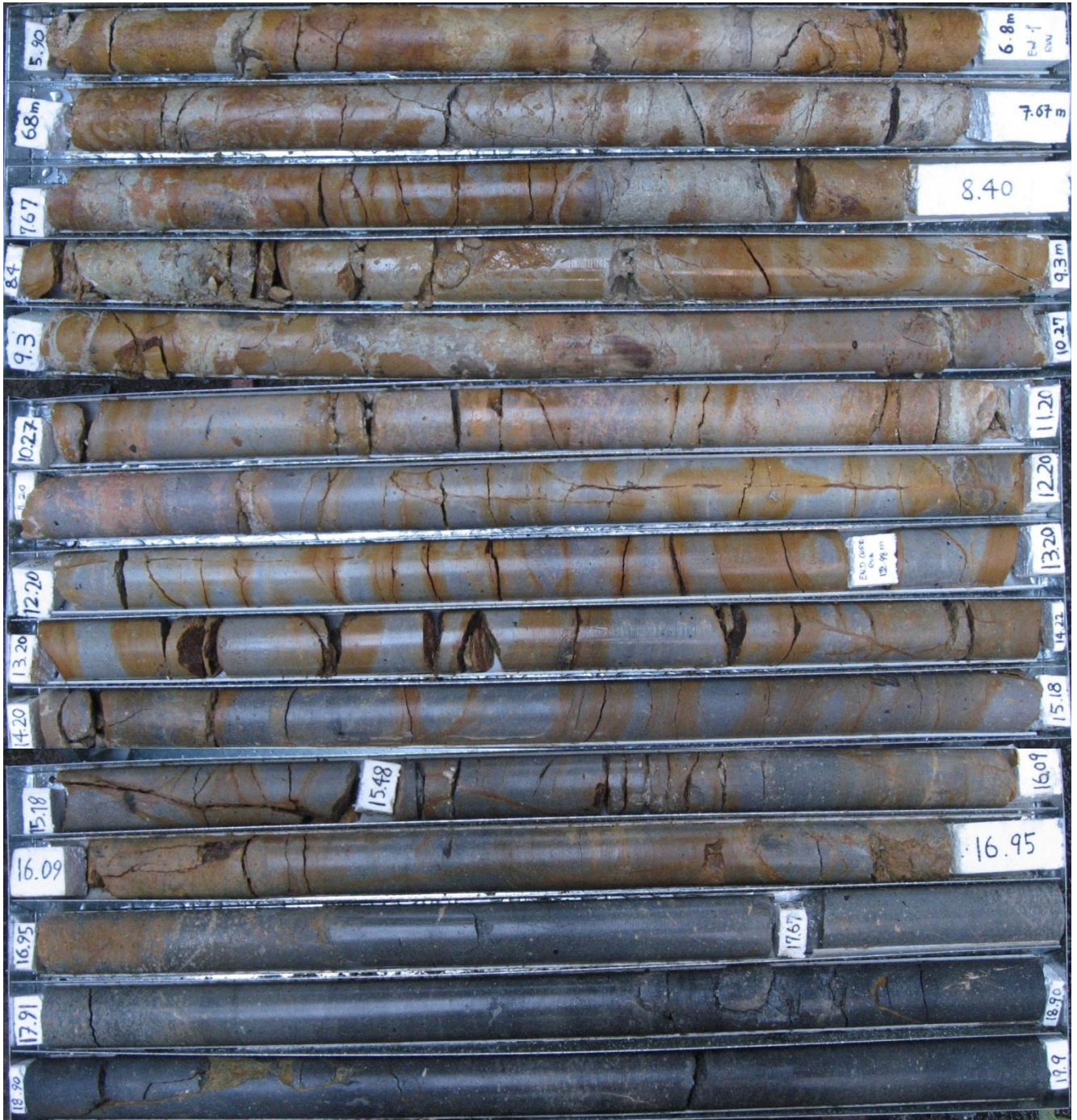


REPORT OF CORE PHOTOGRAPHS: CRR 218

CLIENT: Aecom Australia Pty Ltd
PROJECT: Cross River Rail
LOCATION: Vulture St off ramp
JOB NO: 107632034

COORDS: 0503284 m E 6959923 m N
SURFACE RL: 14.31 DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 44.33 m

DEPTH RANGE: 5.9-18.9 m
DRILL RIG: Fox B40
DRILLER: Schneider Drilling Pty Ltd
LOGGED: AYB DATE: 7/09/10
CHECKED: NK DATE: 4/10/10



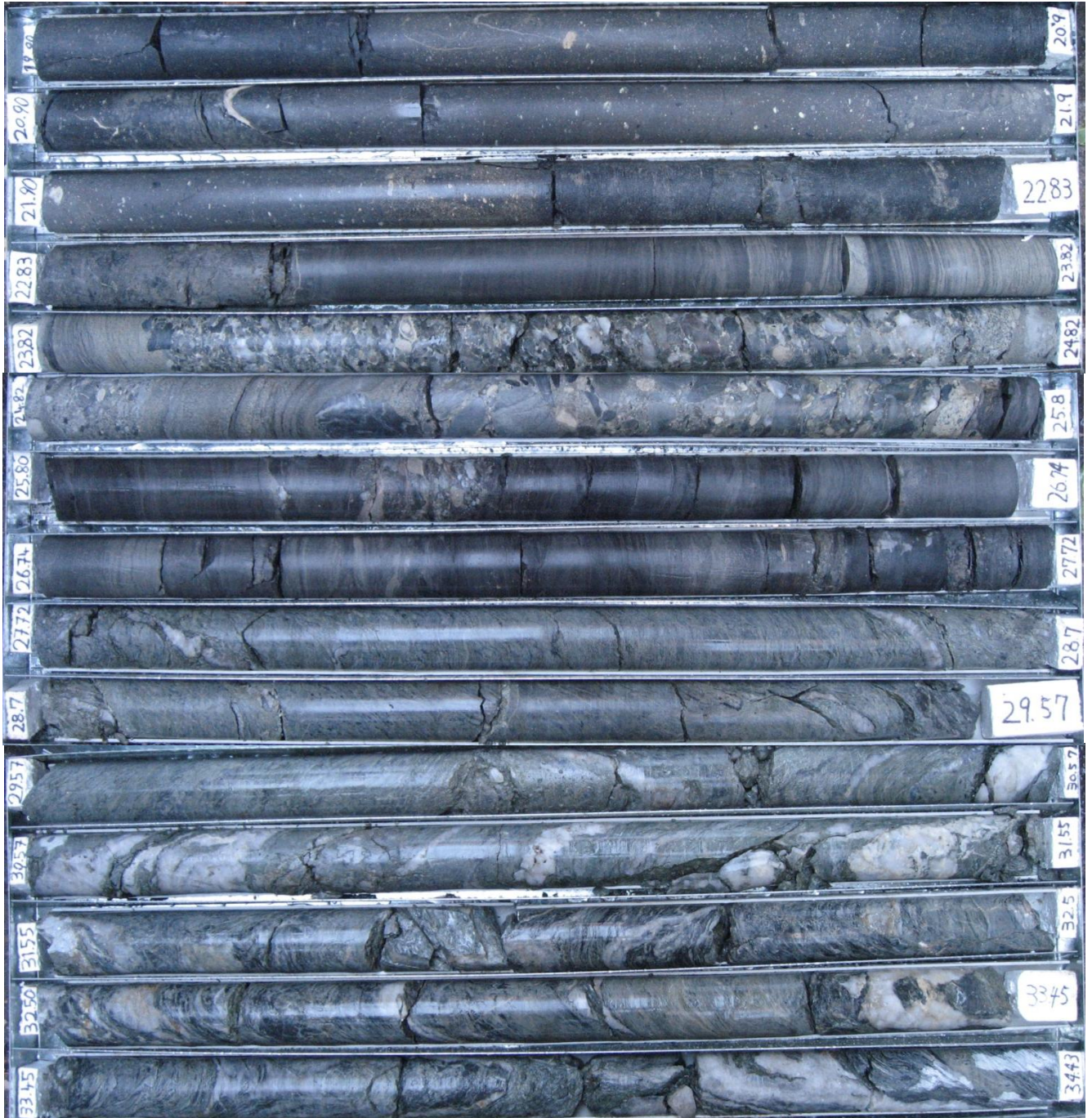


REPORT OF CORE PHOTOGRAPHS: CRR 218

CLIENT: Aecom Australia Pty Ltd
PROJECT: Cross River Rail
LOCATION: Vulture St off ramp
JOB NO: 107632034

COORDS: 0503284 m E 6959923 m N
SURFACE RL: 14.31 DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 44.33 m

DEPTH RANGE: 18.9-33.45 m
DRILL RIG: Fox B40
DRILLER: Schneider Drilling Pty Ltd
LOGGED: AYB DATE: 7/09/10
CHECKED: NK DATE: 4/10/10





PRELIMINARY REPORT OF CORE PHOTOGRAPHS: CRR218

CLIENT: Aecom Australia Pty Ltd
PROJECT: Cross River Rail
LOCATION: Vulture St off ramp
JOB NO: 107632034

COORDS: 56J 0503284 m E 6959924m N
SURFACE RL: 14.31 DATUM: AHD
INCLINATION: -90°
HOLE DEPTH: 44.33m

DEPTH RANGE: 33.45-44.33 m
DRILL RIG: Fox B40
DRILLER: Schneider Drilling Pty Ltd
LOGGED: AYB DATE: 7/09/10
CHECKED: NK DATE: 4/10/10



