

CLIENT: STATE RAIL

Borehole Location: SEE PLAN

BOREHOLE: MW36D

PROJECT: MACDONALDTOWN RISK ASSESSMENT

Surface RL: 20.257m
Datum: AHD

SHEET 1 of 2

LOCATION: BURREN STREET, MACDONALDTOWN

Drill Rig: EDSON 3000

Logged by: AK

JOB N°: EN01669

Inclination: V

Date: 15.02.05

Easting: 332279.971

Northing: 6247736.339

Direction: N/A

Checked by:

Borehole Diameter: 125mm

Date:

DRILLING DATA				SAMPLING DATA		MATERIAL DATA							
METHOD	PENETRATION RESISTANCE	WATER	RL	DEPTH (M)	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONSISTENCY DENSITY	WELL DETAILS	STRUCTURE AND ADDITIONAL OBSERVATIONS	
AUGER TC BIT	M			0.0					FILL: GRAVEL, coarse grained, grey	D		BALLAST	
				0.5				FILL: Sandy GRAVEL, fine to coarse grained, grey, fine to coarse sand, one bolt	D/M	FILL			
	L/M							FILL: Silty CLAY, medium plasticity, red brown and dark grey, trace fine gravel	M	FILL; reworked material			
	H			1m				FILL: Silty CLAY, medium plasticity, orange-brown, with some black ASH	D/M				
	L			1.5				FILL: SLAG of cobble size ~100mm	D	FILL			
			16.02.05, 09.05		2m				FILL: Silty CLAY, medium plasticity, orange-brown and grey, with some fine gravel	M/ W		Loose backfill material	Water perched above natural soil
				2.5						W/ M			NATURAL ALLUVIUM
	L/M			3m				CI-CH	Silty CLAY, medium to high plasticity, orange-brown, with pale grey banding			Ø50mm PVC blank screen	
				3.5									
				4m				Silty CLAY, medium to high plasticity, red-brown, with grey bands					
				4.5				Silty CLAY, medium to high plasticity, grey, trace of fine to medium gravel as ironstone inclusion				Bentonite	
				5m									
				5.5									
				6m						Silty CLAY, medium to high plasticity, pale red-brown, with grey bands			Ø2mm sand
				6.5									Horizontal structure coloured bands
				7m					CI	Silty CLAY, medium plasticity, pale grey	D/ M		Ø50mm PVC slotted screen
				7.5									
				8m									

Report of borehole must be read in conjunction with accompanying notes and abbreviations

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Web: www.skmconsulting.com

BOREHOLE REPORT

05 11 61 11 AM

CLIENT: STATE RAIL

Borehole Location: REFER TO
FIGURE 1**BOREHOLE: MW30**

PROJECT: MACDONALDTOWN RISK ASSESSMENT

Surface RL: 18.363m
Datum: AHD

SHEET 1 of 1

LOCATION: BURREN STREET, EVELEIGH

Drill Rig: EXPLORER

Logged by: AF

JOB N°: EN01669

Inclination: V

Date: 7/12/04

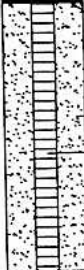
Easting: 332317.9292 Northing: 6247690.862

Direction: NA

Checked by:

Borehole Diameter: 110mm

Date:

DRILLING DATA				SAMPLING DATA		MATERIAL DATA							
METHOD	PENETRATION RESISTANCE	WATER	RL	DEPTH (M)	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY DENSITY	WELL DETAILS	STRUCTURE AND ADDITIONAL OBSERVATIONS
ATC	L	GWNE		0.0	Jar SPT 0.0m-0.45m 8, 8, 22 N = 30 Sandstone cobble PID 130ppm				TOPSOIL, Silty CLAY, light brown, with rootlets	D	D-M		Lockable cap OIL/GAS smell HC Sand Ø50mm PVC screen section Possible OIL/GAS smell OSC End cap
				0.5					FILL: Silty Sandy CLAY, low plasticity, dark brown, with sandstone gravel and cobbles, <PL				
				1m					RESIDUAL CLAY: Silty CLAY, medium plasticity, grey with red, >PL				
				1.5					END of BOREHOLE at 1.5m, limit of investigation				
				2m									
				2.5									
				3m									
				3.5									
				4m									
				4.5									
				5m									
				5.5									
				6m									
				6.5									
				7m									
				7.5									
				8m									

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WASHINGTON, D.C. 20250
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WASHINGTON, D.C. 20250

CLIENT: STATE RAIL

PROJECT: MACDONALDTOWN RISK ASSESSMENT

LOCATION: BURREN STREET, EVELEIGH

JOB N°: EN01669

Easting: 332305.328

Northing: 6247667.544

Borehole Location: REFER TO
FIGURE 1Surface RL: 18.331m
Datum: AHD

Drill Rig: EXPLORER

Inclination: V

Direction: NA

Borehole Diameter: 110mm

BOREHOLE: MW32

SHEET 1 of 1

Logged by: AF

Date: 7/12/04

Checked by:

Date:

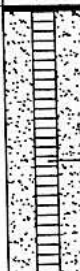
DRILLING DATA					SAMPLING DATA		MATERIAL DATA						
METHOD	PENETRATION RESISTANCE	WATER	RL	DEPTH (M)	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY DENSITY	WELL DETAILS	STRUCTURE AND ADDITIONAL OBSERVATIONS
ATC	L	GWNE		0.0	SPT 1.0m-1.45m 2, 3, 3 N = 6 PID 39.7ppm SPT No sample Blocked by gravel/ cobble-not enough soil in SPT sampler				TOPSOIL, Silty CLAY, light brown, with blue metal	D			Road box and lockable cap NC Sand 250mm PVC screen section No distinct odour End cap
	H			0.5					FILL: Silty CLAY, grey brown	D			
	L			1m					FILL: SANDSTONE boulder	D			
				1.5					FILL: Sandy Silty CLAY, brown	D-M			
				1.5					END of BOREHOLE at 1.5m, limit of investigation				
				2m									
				2.5									
				3m									
				3.5									
				4m									
				4.5									
				5m									
				5.5									
				6m									
				6.5									
				7m									
				7.5									
				8m									

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BOREHOLE REPORT

CLIENT: STATE RAIL		Borehole Location: REFER TO FIGURE 1	BOREHOLE: MW33
PROJECT: MACDONALDTOWN RISK ASSESSMENT		Surface RL: 18.797m Datum: AHD	
LOCATION: BURREN STREET, EVELEIGH		Drill Rig: EXPLORER Inclination: V Direction: NA Borehole Diameter: 110mm	Logged by: AF Date: 7/12/04 Checked by: Date:
JOB N°: EN01669			
Easting: 332293.5328 Northing: 6247699.587			

DRILLING DATA				SAMPLING DATA		MATERIAL DATA					STRUCTURE AND ADDITIONAL OBSERVATIONS			
METHOD	PENETRATION RESISTANCE	WATER	RL	DEPTH (M)	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY DENSITY	WELL DETAILS		
ATC	L	GWNE		0.0					TOPSOIL, Sandy Silty CLAY, light brown, thick grass	D			Road box and lockable cap	HC strong OIL/GAS odour present
				0.5	Jar				FILL: Sandy Silty CLAY, dark brown/black	D				
			1m	Jar SPT 0.5m-0.95m 5, 5, 4 N = 9 PID 354ppm				RESIDUAL CLAY: Silty CLAY, brown, grey, red, ironstone nodules, some rootlets present, (stiff)	D-M					
				1.5					END of BOREHOLE at 1.5m, limit of investigation					
				2m										
				2.5										
				3m										
				3.5										
				4m										
				4.5										
				5m										
				5.5										
				6m										
				6.5										
				7m										
				7.5										
				8m										

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BOREHOLE REPORT

EN/30-0-jp: 401559\76_107878.es\76-aw-ajsa\A\EN01669-MW34.dwg, 12/10/04 9:45:15 AM

CLIENT: STATE RAIL				Borehole Location: REFER TO FIGURE 1				BOREHOLE: MW34					
PROJECT: MACDONALDTOWN RISK ASSESSMENT				Surface RL: 18.639m Datum: AHD				SHEET 1 of 1					
LOCATION: BURREN STREET, EVELEIGH				Drill Rig: EXPLORER				Logged by: AF					
JOB N°: EN01669				Inclination: V				Date: 7/12/04					
Easting: 332304.4362 Northing: 6247717.435				Direction: NA				Checked by:					
				Borehole Diameter: 110mm				Date:					
DRILLING DATA			SAMPLING DATA			MATERIAL DATA							
METHOD	PENETRATION RESISTANCE	WATER	RL	DEPTH (M)	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY DENSITY	WELL DETAILS	STRUCTURE AND ADDITIONAL OBSERVATIONS
ATC	L	GWNE		0.0	SPT 0.5m-0.95m 1, 1, 1 N = 2 PID 64.9ppm				FILL: Gravelly Sandy CLAY, dark grey	D			Road box and lockable cap
				FILL: Sandy CLAY, black <PL					D	VMC			
				Silty CLAY, medium to high plasticity, brown, grey red, (firm)					M	Sand			
				RESIDUAL CLAY: Silty CLAY, medium plasticity, grey, oil sheen >PL					W	HC strong OIL smell			
				1.5	PID test at 1.4m PID 30.1ppm			END of BOREHOLE at 1.5m, limit of investigation				End cap	
				2m									
				2.5									
				3m									
				3.5									
				4m									
				4.5									
				5m									
				5.5									
				6m									
				6.5									
				7m									
				7.5									
				8m									
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SKM				Sindair Knight Merz Pty Ltd 100 Christie Street, St Leonards NSW 2065 Telephone: 9928 2100 Fax: 9928 2500 Web: www.skmconsulting.com				BOREHOLE REPORT					

CLIENT: STATE RAIL				Borehole Location: SEE PLAN ARGUS COMPOUND		BOREHOLE: MW41D									
PROJECT: MACDONALDTOWN RISK ASSESSMENT				Surface RL: 13.675m Datum: AHD		SHEET 1 of 2									
LOCATION: RAILWAY PARADE, EVELEIGH				Drill Rig: EDSON 3000		Logged by: AF									
JOB N°: EN01669				Inclination: V		Date: 18.02.05									
Easting: 332423.662 Northing: 6247610.367				Direction: N/A		Checked by:									
				Borehole Diameter: 125mm		Date:									
DRILLING DATA			SAMPLING DATA		MATERIAL DATA										
METHOD	PENETRATION RESISTANCE	WATER	RL	DEPTH (M)	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE	CONSISTENCY	DENSITY	WELL DETAILS	STRUCTURE AND ADDITIONAL OBSERVATIONS	
ATC	L-M		V	0.0					CONCRETE slab					Road box installed in concrete	
				0.5					FILL: Clayey GRAVEL, medium to coarse grained	W				Hydrocarbon Tar smell of FILL material	
				1m											
				1.5					CI RESIDUAL SOIL: Silty CLAY, low to medium plasticity, brown/grey	M				Ø50mm PVC blank screen	
				2m											
				2.5					RESIDUAL SOIL: Silty CLAY, medium plasticity, red brown laminated	M-D					
				3m											
				3.5					RESIDUAL SOIL: Silty CLAY, medium plasticity, grey						
				4m											
				4.5											
5m								RESIDUAL SOIL: Silty CLAY, medium plasticity, grey, with ironstone bands					Bentonite		
5.5															
6m								RESIDUAL SOIL: Silty CLAY, medium plasticity, grey with yellow and red-brown	M-D				Coarse sand		
6.5															
7m					PID Jar			CH Silty CLAY, high plasticity, grey	W				Ø50mm PVC slotted screen		
7.5															
8m															

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