



APPENDIX A

Groundwater Bore Records



For information on the meaning of fields please see **Glossary** Document Generated on Friday, November 28, 2008

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW019680

Works Details (top)

GROUNDWATER NUMBER GW019680 **LIC-NUM** 10BL012376 **AUTHORISED-PURPOSES** TEST BORE

INTENDED-PURPOSES WASTE DISPOSAL WORK-TYPE Bore open thru rock

WORK-STATUS Test Hole
CONSTRUCTION-METHOD Cable Tool
OWNER-TYPE Federal Govt

COMMENCE-DATE

COMPLETION-DATE 1962-04-01 **FINAL-DEPTH (metres)** 53.30 **DRILLED-DEPTH (metres)** 53.30

CONTRACTOR-NAME

DRILLER-NAME

PROPERTY N/A

GWMA 603 - SYDNEY BASIN

GW-ZONE - TOMAGO

STANDING-WATER-LEVEL

SALINITY YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST RIVER-BASIN 212 - HAWKESBURY RIVER

AREA-DISTRICT

 CMA-MAP
 9030-3N

 GRID-ZONE
 56/1

 SCALE
 1:25,000

ELEVATION

 ELEVATION-SOURCE
 (Unknown)

 NORTHING
 6262298.00

 EASTING
 290432.00

 LATITUDE
 33 45' 31"

 LONGITUDE
 150 44' 14"

 GS-MAP
 0056C4

AMG-ZONE 56

COORD-SOURCE GD., ACC. MAP

REMARK

Form-A (top)

COUNTY CUMBERLAND LONDONDERRY

PORTION-LOT-DP 109

Licensed (top)

COUNTY CUMBERLAND LONDONDERRY

PORTION-LOT-DP 109

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
	1	Casing	Threaded Steel		42.90	152			Suspended in Clamps

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK-CAT- DESC	S-W- L	D- D- YIELD L	HOLE- DEPTH (metres)	DURATION SALINITY
10.90	11.20	0.30	Unconsolidated	10.90	0.03		Salty
44.10	44.70	0.60	Fractured	10.90	0.19		Salty
52.40	53.30	0.90	Fractured	10.90	3.54		Salty

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	11.27	11.27	Clay Water Supply	
11.27	16.15	4.88	Clay Shale	
16.15	44.19	28.04	Shale Hard	
44.19	44.80	0.61	Shale Water Supply	
44.80	50.29	5.49	Shale Dark	
50.29	52.42	2.13	Shale Clay Seams	
52.42	53.34	0.92	Shale Water Supply	

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources

(DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

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Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW020069

Works Details (top)

GROUNDWATER NUMBER GW020069 **LIC-NUM** 10BL012538

AUTHORISED-PURPOSES WASTE DISPOSAL WASTE DISPOSAL Bore open thru rock

WORK-STATUS (Unknown)
CONSTRUCTION-METHOD Cable Tool
OWNER-TYPE Federal Govt

COMMENCE-DATE

COMPLETION-DATE 1962-06-01 **FINAL-DEPTH (metres)** 75.50 **DRILLED-DEPTH (metres)** 75.60

CONTRACTOR-NAME

DRILLER-NAME

PROPERTY N/A

GWMA 603 - SYDNEY BASIN

GW-ZONE - TOMAGO

STANDING-WATER-LEVEL

SALINITY YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN** 212 - HAWKESBURY RIVER

AREA-DISTRICT

 CMA-MAP
 9030-3N

 GRID-ZONE
 56/1

 SCALE
 1:25,000

ELEVATION

 ELEVATION-SOURCE
 (Unknown)

 NORTHING
 6262298.00

 EASTING
 290458.00

 LATITUDE
 33 45' 31"

 LONGITUDE
 150 44' 15"

 GS-MAP
 0056C4

AMG-ZONE 56

COORD-SOURCE GD., ACC. MAP

REMARK

Form-A (top)

COUNTY CUMBERLAND LONDONDERRY

PORTION-LOT-DP 109

Licensed (top)

COUNTY CUMBERLAND LONDONDERRY

PORTION-LOT-DP 109

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1	1	Casing	(Unknown)	0.00	64.60	152			Suspended in Clamps
1	1	Opening	Slots	7.30	8.80	152		1	SL: 0mm; A: 0mm
1	1	Opening	Slots	57.90	59.40	152		2	SL: 0mm; A: 0mm

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK-CAT- DESC	S- W-L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION SALINITY
7.30	8.80	1.50	Unconsolidated			0.03		(Unknown)
57.90	59.40	1.50	(Unknown)	9.10		0.13		(Unknown)
72.50	74.60	2.10	(Unknown)	6.00		0.25		(Unknown)

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	2.13	2.13	Clay		
2.13	4.57	2.44	Clay Coloured		
4.57	7.31	2.74	Clay Shale		
7.31	8.83	1.52	Clay Sticky Water Supply		
8.83	51.20	42.37	Shale Light Coloured		
51.20	59.43	8.23	Shale Dark Water Supply		
51.20	59.43	8.23	Clay Seams		

59.43	60.65 1.22	Shale Dark
60.65	63.70 3.05	Shale
60.65	63.70 3.05	Sandstone Yellow Streaks
63.70	72.54 8.84	Shale Light Orange
72.54	74.67 2.13	Shale Dark Orange Water Supply
72.54	74.67 2.13	Clay Seams
74.67	75.59 0.92	Shale Dark Orange

For information on the meaning of fields please see **Glossary** Document Generated on Friday, November 28, 2008

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW020547

Works Details (top)

GROUNDWATER NUMBER GW020547 **LIC-NUM** 10BL013346

AUTHORISED-PURPOSES WASTE DISPOSAL WASTE DISPOSAL WORK-TYPE Bore open thru rock

WORK-STATUS (Unknown)
CONSTRUCTION-METHOD Cable Tool
OWNER-TYPE Federal Govt

COMMENCE-DATE

COMPLETION-DATE 1963-06-01 **FINAL-DEPTH (metres)** 91.40 **DRILLED-DEPTH (metres)** 91.40

CONTRACTOR-NAME

DRILLER-NAME

PROPERTY N/A

GWMA 603 - SYDNEY BASIN

GW-ZONE - TOMAGO

STANDING-WATER-LEVEL

SALINITY YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST RIVER-BASIN 212 - HAWKESBURY RIVER

AREA-DISTRICT

 CMA-MAP
 9030-3N

 GRID-ZONE
 56/1

 SCALE
 1:25,000

ELEVATION

 ELEVATION-SOURCE
 (Unknown)

 NORTHING
 6262327.00

 EASTING
 290380.00

 LATITUDE
 33 45' 30"

 LONGITUDE
 150 44' 12"

 GS-MAP
 0056C4

AMG-ZONE

56

COORD-SOURCE

GD., ACC. MAP

REMARK

Form-A (top)

COUNTY

CUMBERLAND

PARISH

LONDONDERRY

PORTION-LOT-DP 109

Licensed (top)

COUNTY

CUMBERLAND

PARISH

LONDONDERRY

PORTION-LOT-DP 109

Construction (top)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter; ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1	1	Casing	Threaded Steel	-0.30	28.00	152		I	(Unknown)

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S- W-L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
15.20	15.80	0.60	Fractured						(Unknown)
39.60	40.20	0.60	Fractured	9.10		0.19			Brackish
43.80	44.40	0.60	Fractured			0.06			Salty
57.30	57.90	0.60	Fractured			0.06			Salty

Drillers Log (top)

FROM	ТО	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	0.91	0.91	Topsoil		
0.91	9.14	8.23	Clay Yellow		
0.91	9.14	8.23	Pebbles		
9.14	13.71	4.57	Shale Grey		
13.71	91.44	77.73	Shale Black Water Supply		

For information on the meaning of fields please see **Glossary** Document Generated on Friday, November 28, 2008

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW060794

Works Details (top)

GROUNDWATER NUMBER GW060794 LIC-NUM 10BL132249

AUTHORISED-PURPOSES DOMESTIC STOCK **INTENDED-PURPOSES** DOMESTIC STOCK **WORK-TYPE** Bore open thru rock

WORK-STATUS (Unknown) **CONSTRUCTION-METHOD** Rotary Air **OWNER-TYPE** Private

COMMENCE-DATE

COMPLETION-DATE 1985-02-01 FINAL-DEPTH (metres) 78.10 DRILLED-DEPTH (metres) 78.10

CONTRACTOR-NAME

DRILLER-NAME

PROPERTY N/A

GWMA - SYDNEY BASIN - TOMAGO

GW-ZONE

STANDING-WATER-LEVEL

SALINITY YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST **RIVER-BASIN** 212 - HAWKESBURY RIVER

AREA-DISTRICT

CMA-MAP 9030-3N **GRID-ZONE** 56/1 **SCALE** 1:25,000

ELEVATION

ELEVATION-SOURCE (Unknown) **NORTHING** 6259780.00 **EASTING** 289484.00 **LATITUDE** 33 46' 52" LONGITUDE 150 43' 35" **GS-MAP** 0056C4

AMG-ZONE
COORD-SOURCE

GD.,ACC.MAP

56

REMARK

Form-A (top)

COUNTY CUMBERLAND
PARISH CLAREMONT
PORTION-LOT-DP L15 DP263498 (12)

Licensed (top)

COUNTY CUMBERLAND
PARISH CLAREMONT
PORTION-LOT-DP 15 263498

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S- W- L	D- D- L	YIELD	HOLE- DEPTH (metres)	DURATION SALINITY
18.80	18.90	0.10	Fractured			0.02		(Unknown)
75.00	75.20	0.20	Fractured			0.06		(Unknown)

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	6.20	6.20	Clay		
6.20	78.10	71.90	Slate Or Shale		

For information on the meaning of fields please see **Glossary** Document Generated on Friday, November 28, 2008

Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW103764

Works Details (top)

GROUNDWATER NUMBER GW103764
LIC-NUM 10BL157484
AUTHORISED-PURPOSES IRRIGATION
INTENDED-PURPOSES IRRIGATION

WORK-TYPE Bore

WORK-STATUS (Unknown)
CONSTRUCTION-METHOD Rotary

OWNER-TYPE

COMMENCE-DATE

COMPLETION-DATE 1995-10-06
FINAL-DEPTH (metres) 231.60
DRILLED-DEPTH (metres) 231.60

CONTRACTOR-NAME

DRILLER-NAME

PROPERTY POLESE

GWMA - SYDNEY BASIN

GW-ZONE - TOMAGO

STANDING-WATER-LEVEL

SALINITY YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST

RIVER-BASIN AREA-DISTRICT

CMA-MAP GRID-ZONE SCALE

ELEVATION

ELEVATION-SOURCE

NORTHING6259844.00EASTING289362.00LATITUDE33 46' 50"LONGITUDE150 43' 31"

GS-MAP

AMG-ZONE 56
COORD-SOURCE
REMARK

Form-A (top)

COUNTY CUMBERLAND
PARISH CLAREMONT
PORTION-LOT-DP 1//239091

Licensed (top)

COUNTY CUMBERLAND
PARISH CLAREMONT
PORTION-LOT-DP 1 239091

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	167.50	171			Rotary Air
1		Hole	Hole	167.50	231.60	151			Rotary Air
1	1	Casing	Stainless Steel	0.00	167.80	140			C: 0- 167.8m; Welded; Suspended in Clamps

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO-DEPTH (metres)	THICKNESS (metres)	CAT-	S- W- L	D-	YIELD	TEST-HOLE- DEPTH (metres)	DURATION SALINITY
208.00	209.50	1.50				0.42	214.00	1.00
216.50	219.00	2.50				0.83	230.00	1.00

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	0.60	0.60	TOPSOIL		
0.60	6.40	5.80	CLAY		
6.40	11.20	4.80	SHALE		
11.20	123.40	112.20	SHALE		
123.40	216.40	93.00	SANDSTONE		
216.40	217.30	0.90	SHALE		
217.30	231.60	14.30	SANDSTONE		

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Print Report

Works Details Site Details Form A Licensed Construction Water Bearing Zones Drillers Log

Work Requested -- GW108906

Works Details (top)

GROUNDWATER NUMBER GW108906 **LIC-NUM** 10BL602079

AUTHORISED-PURPOSES RECREATION (GROUNDWATER) **INTENDED-PURPOSES** RECREATION (GROUNDWATER)

WORK-TYPE Bore

WORK-STATUS

CONSTRUCTION-METHOD Rotary Air **OWNER-TYPE** Private

COMMENCE-DATE

COMPLETION-DATE 2008-06-11 FINAL-DEPTH (metres) 186.00 DRILLED-DEPTH (metres) 186.00

CONTRACTOR-NAME

DRILLER-NAME

PROPERTY PENRITH CHRISTIAN LIFE CENTRE

GWMA - SYDNEY BASIN

GW-ZONE - TOMAGO

 STANDING-WATER-LEVEL
 30.00

 SALINITY
 2410.00

 YIELD
 1.10

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST

RIVER-BASIN AREA-DISTRICT

CMA-MAP
GRID-ZONE
SCALE
ELEVATION

ELEVATION-SOURCE

NORTHING6259328.00EASTING287656.00LATITUDE33 47' 6"LONGITUDE150 42' 24"

GS-MAP

AMG-ZONE 56
COORD-SOURCE
REMARK

Form-A (top)

COUNTY CUMBERLAND
PARISH CLAREMONT
PORTION-LOT-DP 11 831409

Licensed (top)

COUNTY CUMBERLAND
PARISH CLAREMONT
PORTION-LOT-DP 11 831409

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	2.50	204			Rotary Air
1		Hole	Hole	2.50	150.00	165			Down Hole Hammer
1		Hole	Hole	150.00	186.00	162			Down Hole Hammer
1	1	Casing	Steel	-0.30	2.70	162	152.4		Suspended in Clamps
1	1	Casing	PVC Class 12	-0.30	48.90	114			Screwed and Glued; Suspended in Clamps

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W- L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
6.50	7.00	0.50				0.40		0.25	10000.00
126.00	127.00	1.00				0.10		0.25	10000.00
157.00	157.50	0.50				0.50		0.25	5480.00
181.20	181.30	0.10		30.00		1.10		0.25	2410.00

Drillers Log (top)

FROM	то	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	3.00	3.00	CLAY BROWN	

3.00	5.00	2.00	SHALE BROWN
5.00	6.50	1.50	SHALE GREY
6.50	7.00	0.50	SHALE SOFT
7.00	21.00	14.00	SHALE GREY
21.00	28.00	7.00	SHALE BLACK
28.00	29.00	1.00	SHALE SOFT
29.00	34.00	5.00	SHALE BLACK
34.00	103.00	69.00	SHALE HARD
103.00	106.00	3.00	SANDSTONE AND SHALE BEDDING
106.00	126.00	20.00	SANDSTONE GREY
126.00	127.00	1.00	SANDSTONE FINE QUARTZ
127.00	151.00	24.00	SANDSTONE GREY
151.00	154.00	3.00	SILTSTONE HARD
154.00	157.00	3.00	SANDSTONE HARD
157.00	157.30	0.30	SANDSTONE FINE QUARTZ
157.30	164.00	6.70	SANDSTONE GREY
164.00	164.50	0.50	SANDSTONE FINE QUARTZ
164.50	181.20	16.70	SANDSTONE GREY
181.20	181.30	0.10	SANDSTONE FRACTURED
181.30	186.00	4.70	SANDSTONE GREY