




Avondale coal wash emplacement and tailings



Avondale reservoir and coal wash emplacement

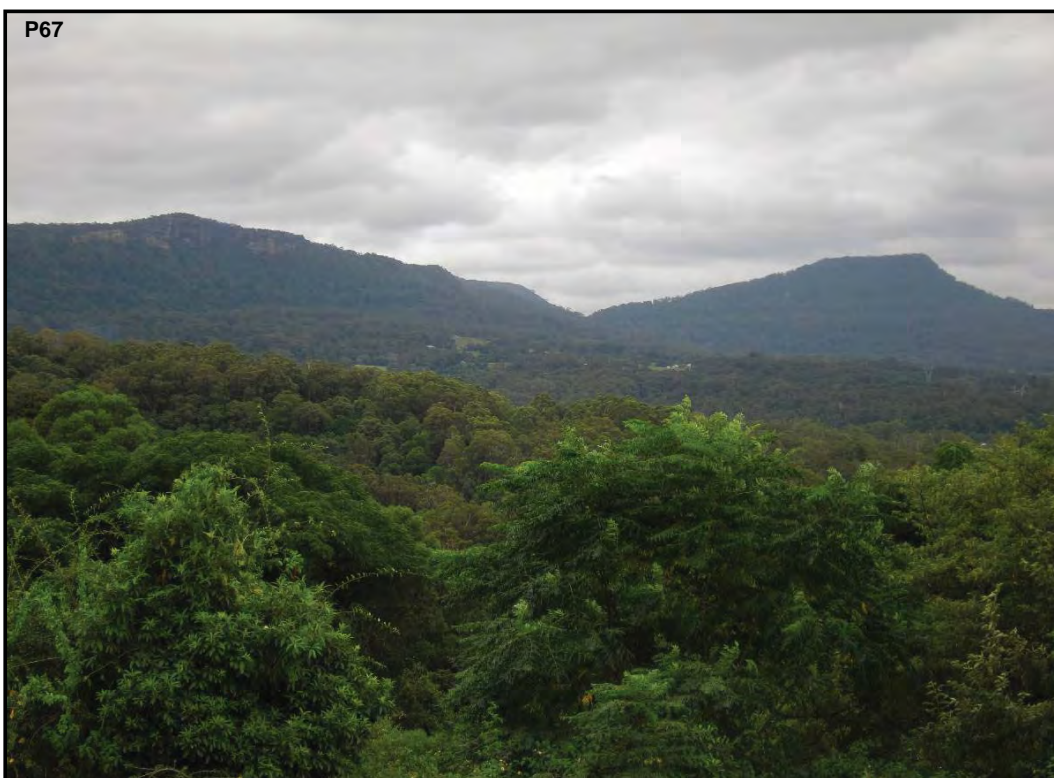


Above images: view towards Avondale Reservoir site


drawn	RH		client:	Sydney Water	
approved	LAE		project:	WDURA and AGA Geology, Soils and Ground Water Assessment	
date	10.05.2010		title:	Sites 20-23: Avondale	
scale			project no.:	GEOTWOLL03124AB-AL	figure no.: AB9
original size	A4				



View across electricity easement at west end of Wongawilli Emplacement



View north towards Mt. Kembla

drawn	RH		client:	Sydney Water
approved	LAE		project:	WDURA and AGA Geology, Soils and Ground Water Assessment
date	10.05.2010		title:	Site 24
scale			project no.:	GEOTWOLL03124AB-AL
original size	A4		figure no.:	AB10




Left: Apparently artificial creek cut into Budgong Sandstone (0.5m)

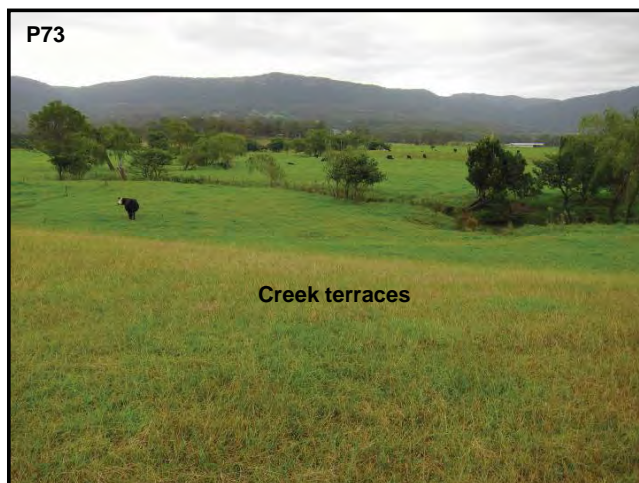


Right: Outer creek bank erosion



Former eroded pipeline site. Unnatural-looking landscape features

drawn	RH		client:	Sydney Water
approved	LAE		project:	WDURA and AGA Geology, Soils and Ground Water Assessment
date	10.05.2010		title:	Sites 25, 26 & 27
scale			project no.:	GEOTWOLL03124AB-AL
original size	A4		figure no.:	AB11



Above: pipeline alignment runs adjacent to road (to left of P74)



Gravel lenses in clay bank (1.5m high)


Left: River crossing

Rounded boulders in river bed

Angular boulders amongst trees

Right: Talus deposits



drawn	RH	 <p>coffey geotechnics SPECIALISTS MANAGING THE EARTH</p>	client:	Sydney Water
approved	LAE		project:	WDURA and AGA Geology, Soils and Ground Water Assessment
date	10.05.2010		title:	Sites 28, 29 & 30
scale			project no.:	GEOTWOLL03124AB-AL
original size	A4		figure no.:	AB12

P77




P78



P79



Above images: Edge of talus deposit above lower elevation pipelines

drawn	RH		client:	Sydney Water
approved	LAE		project:	WDURA and AGA Geology, Soils and Ground Water Assessment
date	10.05.2010		title:	Site 31
scale			project no.:	GEOTWOLL03124AB-AL
original size	A4		figure no.:	AB13



P80

Left: Mount Marshall Reservoir site underlain by shallow, fine-grained sandstone



P82

Right: Former abattoir site with embankments around settling pond




P83

Former abattoir



P84

Above: view from Larkins Lane at end of wastewater pipeline. Rock close to surface.

drawn	RH		client:	Sydney Water	
approved	LAE		project:	WDURA and AGA Geology, Soils and Ground Water Assessment	
date	10.05.2010		title:	Sites 33, 34 & 35	
scale			project no.:	GEOTWOLL03124AB-AL	figure no.: AB14
original size	A4				

Appendix B

**Summary of Potentially Contaminating Landuses/Activities and Potential
Chemicals of Concern**

Appendix B - Summary of Potentially Contaminating Landuses/Activities and Potential Chemicals of Concern

Appendix B – Summary of Potentially Contaminating Landuses/Activities and Potential Chemicals of Concern												
Potentially Contaminating Activity	Zoning Where Activity Typically May Apply					Typical Description	Likelihood of Contamination	Potential Areas of Environmental Concern		Typical Media Potentially Affected		Potential Chemicals of Concern
	Rural	Residential	Industrial	Business	Special Purpose			Environment / Rec.	Soil	Groundwater		
A. Potential weathering of hazardous building materials and demolition of former site structures	x	x	x	x	x		Weathering of hazardous building materials such as lead paint, fibre cement (containing asbestos) and galvanised iron. Potentially present from former or current site structures. Also includes possible use of pesticides near buildings.	Generally low to moderate likelihood of soil contamination. Only applies if former structures contained hazardous building materials, which weathered into surrounding surface soils. Alternatively, incorrect demolition procedures may have resulted in possible soil contamination with fragments of weathered/riable building materials.	Typically localised areas near former/existing structures.	x		Lead, zinc, asbestos and OCP.
B. Fill of unknown origin and quality		x	x	x	x		Fill soils potentially imported to alter site levels and for construction purposes or filling of land.	Generally moderate to high likelihood of contamination.	Could apply to small or large areas of properties	x		TPH, BTEX, PAH, OCP, OPP, PCB, heavy metals and asbestos.
C. Disposal of wastes							Localised dumping of wastes on sites. In rural settings may apply to farm/household wastes (includes filling of former dams) or animal wastes from intensive animal raising/dairying/cattle. May also apply to certain parts of commercial / industrial properties. Mining and steelmaking activities in the study area have also disposed of wastes including coal wash emplacement areas. One Council owned landfill operates within the study area accepting municipal waste.	Generally moderate likelihood of contamination. Sediments within rural dams/ponds could accumulate contaminants if used on site. Associated drainage lines may also be affected. Large scale emplacement areas may have impacts to groundwater.	In general, it would not be uncommon for some rural properties to have small disposal areas for farm/household wastes. On some occasions former ponds, dams or drainage lines could also have been used for dumping of wastes. Contamination could also be present within the sediments of dams and nearby surrounding soils.	x	x	TPH, BTEX, PAH, OCP, OPP, PCB, heavy metals, herbicides, fungicides and asbestos. Combustibility is also an issue for coal wash emplacement areas. Methane generation is also an issue for a municipal landfill or other areas where high proportions of putrescible material have been disposed.
D. Storage of miscellaneous materials & equipment	x		x				May include vehicles/plant or materials that may have been used in previous or current agricultural/industrial style practices. Equipment such as leaking or deteriorating tractors/harvesters, or materials that may contain possible sources of contamination (e.g. fibre cemented sheeting or copper arsenic treated pine timber)	Generally low to moderate likelihood of contamination. A large variety of materials could typically be expected for the properties encompassed by the study area. Materials or equipment may include car bodies, old fuel storage tanks, steel scrap, treated timber, fibre cement sheeting, etc. The exact variety of materials/items for each property and their previous or current use is not known.	Typically localised areas within or near farm houses/sheds in the rural areas. Contamination (if present) would typically be present in near surface soils in areas where the equipment or materials were stored.	x		TPH, BTEX, PAH, OCP, PCB, heavy metals and asbestos.
E. Possible application of pesticides and/or other agricultural chemicals							May include application of pesticides to crops or livestock in rural settings and application of herbicides to weed species or fungicides to crops	Generally low to moderate likelihood of contamination. The market garden and area may have a higher likelihood of using such chemicals and therefore a higher likelihood of contamination.	Could apply to selected area of the rural areas or businesses such as market gardens/nurseries/golf courses.	x	x	Heavy metals, OCP, OPP, herbicides and fungicides
F. Potential leaks or seepage from septic tanks	x	x	x	x	x		Effluent discharges from septic tanks and potential disposal of other wastes into the septic system. Typically applies more to rural properties.	Low to moderate likelihood of contamination.	Areas near and downslope of dwellings where septic tank is/was present from potential leaks.	x	x	Typically nutrients and pathogens. (May also include others such as TPH, BTEX, PAH, OCP, OPP, heavy metals etc. if wastes inappropriately disposed)
G. Use and storage of other fuels/chemicals							May include fuels such as petrol, diesel and kerosene for use in vehicles/plant; lubricants, oils and grease used for the servicing, cleaning and repairing of vehicles/plant and other chemicals such as pesticides, herbicides and fungicides. These could have been stored in drums, cans, bottles or above ground or below ground tanks. Commercial/industrial properties may store and use other specific chemicals for example service stations, dry cleaners etc.	Generally moderate likelihood of contamination. If present, would typically be expected to be localised in the vicinity of the area where they stored containers. Would typically be present in near surface soils in areas where the chemicals were stored. Potentially deeper soil and groundwater contamination may be possible if fuels etc stored in underground storage tanks.	Typically localised areas near farm houses/sheds in rural settings. May affect various areas of industrial/commercial properties. Possibly larger areas affected if leakages occurred from underground fuel tanks.	x	x	Fuels – TPH, BTEX, PAH, VHC Others – OCP, Herbicides
H. Treatment of livestock with pesticides	x						Cattle tic dips could have been located in rural areas	High likelihood of contamination if dip sites were located within the study area.	Localised areas near the former cattle tic dips. We note that these have not been formerly identified.	x		OCP and arsenic

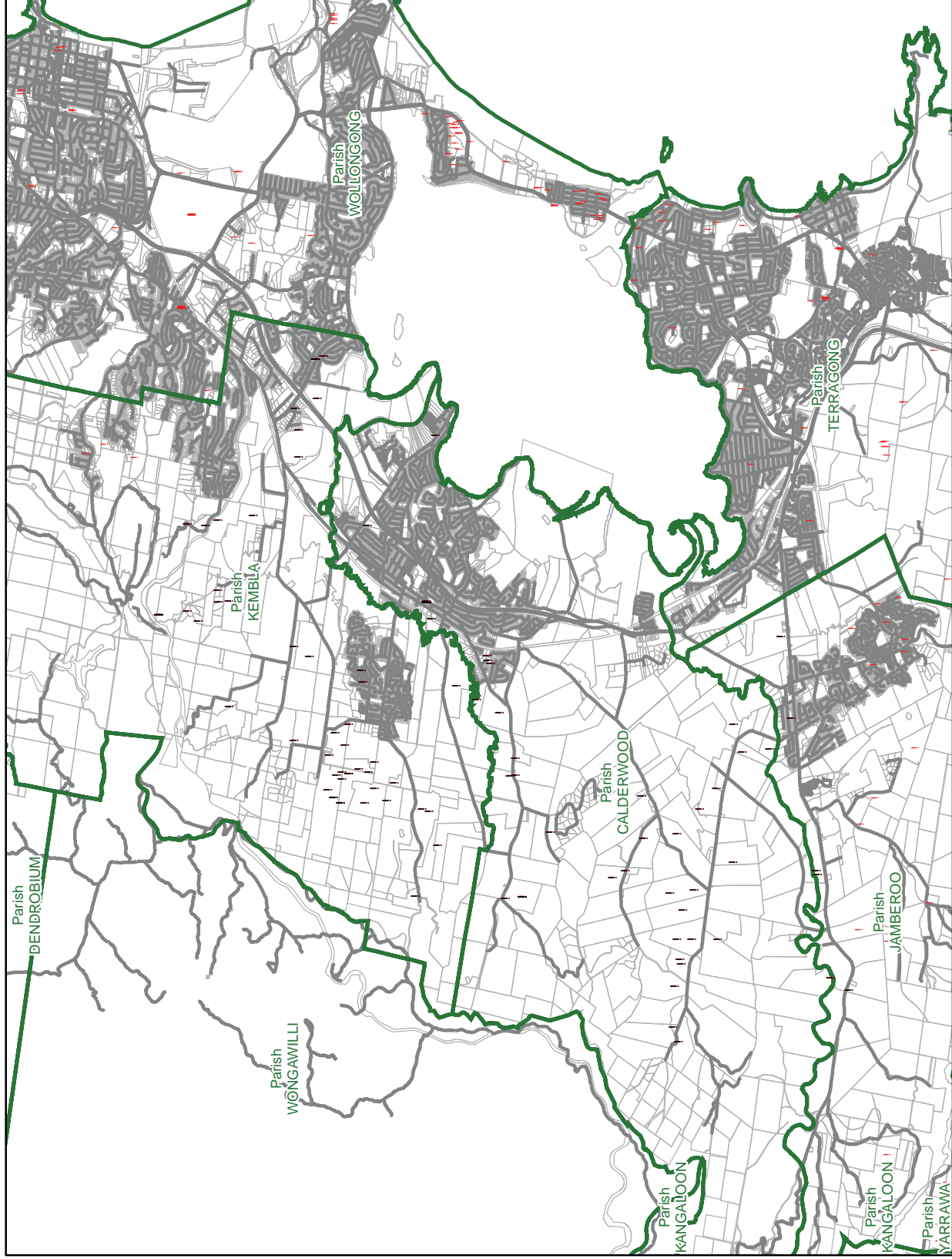
* It is important to note that this is not an assessment of financial risk associated with the AEC in the event contamination is detected, but a qualitative assessment of probability of contamination being detected at the potential AEC, based on the site history study and site observations.

TPH = Total Petroleum Hydrocarbons BTEX = Benzene, Toluene, Ethylbenzene, Xylene PAH = Polycyclic Aromatic Hydrocarbons Heavy Metals = arsenic, cadmium, chromium, copper, lead, nickel, mercury, zinc
OCP = Organochlorine Pesticides OPP = Organophosphate Pesticides
PCB = Polychlorinated Biphenyls VHC = Volatile Halogenated Hydrocarbons


Appendix C

NOW Work Summary Sheets

Groundwater Bores in the Area



Legend

-  Bores in Search Area
-  Groundwater Bores
-  Parish
-  Cadastre Parcels

Produced by the NSW Office of Water
Department of Environment, Climate Change and Water
Date: February 2011 (NSW 89 W2011021)
Projection: Geographic Datum: [GDA94]
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PO Box 53
ORANGE NSW 2800

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Department of Environment, Climate Change and Water, NSW
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by NSW Department of Lands
Bore data has been supplied to the Department
by drillers, licensees and other sources.

DISCLAIMER

This map is to be used as a general guide for regional and local scale natural resource planning and management only, not for the assessment of specific sites which can only be assessed by investigation specific to those sites.

The field information contained on this map may not be verified or complete.

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Department of Environment, Climate Change and Water.
While every reasonable effort has been made to ensure the
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any part of this map.

Date/Time :04-Feb-2011 3:08 PM
 User :VMARTIN
 Report :RMGW001D.QRP
 Executable :S:\G5\PROD32\Ground.exe
 Exe Date :21-Apr-2010
 System :Groundwater
 Database :Edbp



NSW OFFICE OF WATER Work Summary

GW007261

Converted From HYDSYS

Licence :10BL009382			
Work Type :Bore open thru rock		Authorised Purpose(s)	Intended Purpose(s)
Work Status :(Unknown)		DOMESTIC	DOMESTIC
Construct. Method :Cable Tool		STOCK	STOCK
Owner Type :Private			
Commenced Date :	Final Depth :	30.10 m	
Completion Date :01-May-1959	Drilled Depth :	30.20 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - N/A		Standing Water Level :	
GWMA :603 - SYDNEY BASIN		Salinity :	Good
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A : CAMDEN	CALDERWOOD	7
		Licensed : CAMDEN	CALDERWOOD	20
Region : 10 - SYDNEY SOUTH COAST		CMA Map : 9028-4N	ROBERTSON	
River Basin : 214 - WOLLONGONG COAST		Grid Zone : 56/1	Scale : 1:25,000	
Area / District :				
Elevation :		Northing : 6176155	Latitude (S) : 34° 32' 7"	
Elevation Source : (Unknown)		Easting : 292318	Longitude (E) : 150° 44' 13"	
GS Map : 0075C3		MGA Zone : 56	Coordinate Source : PR.,ACC.MAP	

Construction 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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.60	5.70	152			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
19.20	19.50	0.30	Fractured	9.10		0.13			Good

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.61	0.61	Topsoil	Topsoil	
0.61	0.91	0.30	Clay Yellow	Clay	
0.91	5.49	4.58	Clay	Clay	
5.49	16.46	10.97	Shale Black	Shale	
16.46	19.20	2.74	Sandstone Grey	Sandstone	
19.20	21.64	2.44	Shale Black Water Supply	Shale	
21.64	22.25	0.61	Sandstone Grey	Sandstone	
22.25	23.47	1.22	Shale Black	Shale	
23.47	24.08	0.61	Sandstone Grey	Sandstone	
24.08	24.69	0.61	Shale Black	Shale	
24.69	25.30	0.61	Sandstone Grey	Sandstone	
25.30	26.21	0.91	Shale Black	Shale	
26.21	26.82	0.61	Sandstone Grey	Sandstone	
26.82	27.43	0.61	Shale Black	Shale	
27.43	28.04	0.61	Sandstone Grey	Sandstone	
28.04	28.35	0.31	Shale Black	Shale	
28.35	28.65	0.30	Sandstone Grey	Sandstone	
28.65	29.57	0.92	Shale Sandy	Shale	
29.57	30.18	0.61	Shale Hard	Shale	

Remarks

*** End of GW007261 ***

NSW OFFICE OF WATER

Work Summary

GW010779

Converted From HYDSYS

Licence :		Authorised Purpose(s)	Intended Purpose(s)
Work Type : Bore open thru rock			GENERAL USE
Work Status : (Unknown)			
Construct. Method : Cable Tool			
Owner Type : Private			
Commenced Date :	Final Depth :	30.40 m	
Completion Date : 01-May-1954	Drilled Depth :	30.50 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property :		Standing Water Level :	
GWMA : -		Salinity :	3001-7000 ppm
GW Zone : -		Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A : CAMDEN	KEMBLA	47
	Licensed :		
Region : 10 - SYDNEY SOUTH COAST		CMA Map : 9029-2S	WOLLONGONG
River Basin : 214 - WOLLONGONG COAST		Grid Zone : 56/1	Scale : 1:25,000
Area / District :			
Elevation :		Northing : 6183211	Latitude (S) : 34° 28' 21"
Elevation Source : (Unknown)		Easting : 296347	Longitude (E) : 150° 46' 57"
GS Map : 0075D2	MGA Zone : 56	Coordinate Source : GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	14.20	127			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.00	10.30	0.30	(Unknown)	9.70		0.13			(Unknown)
27.70	28.60	0.90	Consolidated	9.70		0.45			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	10.06	10.06	Clay	Clay	
10.06	12.80	2.74	Rock Decomposed Water Supply	Rock	
12.80	30.48	17.68	Sandstone Marine Water Supply	Sandstone	

Remarks

*** End of GW010779 ***

NSW OFFICE OF WATER

Work Summary

GW011738

Converted From HYDSYS

Licence :10BL004355

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
FARMING
IRRIGATION
STOCK

Intended Purpose(s)
GENERAL USE

Commenced Date : Final Depth : 40.50 m
Completion Date :01-Jul-1955 Drilled Depth : 40.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - HERIOT HILL
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : 1001-3000 ppm
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
267
267

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-3S
Grid Zone :56/1

AVON RIVER
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6180461
Easting :291890

Latitude (S) :34° 29' 47"
Longitude (E) :150° 44' 0"

GS Map :0075C2

MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing (Unknown)	-0.30	5.70	152			Driven into Hole
1	1	Opening Slots	1.80	1.80	152		1	SL: 0mm; A: 0mm
1	1	Opening Slots	4.50	4.50	152		2	SL: 0mm; A: 0mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
0.90	2.40	1.50	Unconsolidated	0.30		0.15			(Unknown)
35.60	37.10	1.50	Fractured	0.00		0.76			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.91	0.91	Soil	Soil	
0.91	2.43	1.52	Gravel Water Supply	Gravel	
2.43	27.12	24.69	Sandstone Green	Sandstone	
27.12	29.26	2.14	Sandstone Grey	Sandstone	
29.26	40.53	11.27	Shale Water Supply	Shale	

Remarks

*** End of GW011738 ***

NSW OFFICE OF WATER

Work Summary

GW011891

Converted From HYDSYS

Licence :10BL005131			Authorised Purpose(s) STOCK		Intended Purpose(s) GENERAL USE
Work Type :Bore					
Work Status :(Unknown)					
Construct. Method :Cable Tool					
Owner Type :Private					
Commenced Date :	Final Depth :	22.80 m			
Completion Date :01-Jan-1941	Drilled Depth :	0.00			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - ANDERSON			Standing Water Level :		
GWMA :603 - SYDNEY BASIN			Salinity :		(Unknown)
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	14
		Licensed :CAMDEN	CALDERWOOD	224 789384
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N		ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1		Scale :1:25,000
Area / District :				
Elevation :		Northing :6178322		Latitude (S) :34° 30' 58"
Elevation Source :(Unknown)		Easting :294132		Longitude (E) :150° 45' 26"
GS Map :0075D3		MGA Zone :56	Coordinate Source :PR.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	8.20	203			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
22.80	22.80	0.00	(Unknown)	4.80		1.26			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW011891 ***

NSW OFFICE OF WATER

Work Summary

GW011918

Converted From HYDSYS

Licence :10BL004814

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
INDUSTRIAL
STOCK

Intended Purpose(s)
GENERAL USE

Commenced Date : Final Depth : 17.30 m
Completion Date :01-Jan-1952 Drilled Depth : 0.00

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - BRIDGEWATER ESTATE
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
293
55

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9028-1N
Grid Zone :56/1
ALBION PARK
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6179652
Easting :295710
Latitude (S) :34° 30' 16"
Longitude (E) :150° 46' 29"

GS Map :0075D3 MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	0.00	3.90	152			(Unknown)
1	1	Casing	(Unknown)	0.00	12.10	127			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW011918 ***

NSW OFFICE OF WATER

Work Summary

GW012581

Converted From HYDSYS

Licence :10BL004443

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
STOCK

Intended Purpose(s)
STOCK

Commenced Date : Final Depth : 37.10 m
Completion Date :01-Nov-1956 Drilled Depth : 37.20 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : 501-1000 ppm
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
178
178

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6184897
Easting :297331

Latitude (S) :34° 27' 27"
Longitude (E) :150° 47' 37"

GS Map :0075D2 MGA Zone :56

Coordinate Source :PR.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	-0.30	26.20	127			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.50	19.70	8.20	(Unknown)	7.60		0.06			(Unknown)
31.30	34.60	3.30	Consolidated	4.20		1.21			501-1000 ppm

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Soil	Soil	
0.30	3.04	2.74	Clay Red Yellow Plastic Gravel	Clay	
3.04	4.57	1.53	Clay Red Plastic	Clay	
4.57	5.18	0.61	Clay White Plastic Gravel	Clay	
4.57	5.18	0.61	Boulders	Boulders	
5.18	8.22	3.04	Clay Multicoloured Gravel Plastic	Clay	
5.18	8.22	3.04	Shale Sandstone	Shale	
5.18	8.22	3.04	Boulders	Boulders	
8.22	11.58	3.36	Clay Moist	Clay	
11.58	15.24	3.66	Clay Green Sandy Water Supply	Clay	
11.58	15.24	3.66	Boulders Small	Boulders	
15.24	16.76	1.52	Clay Multicoloured Sandy Water Supply	Clay	
15.24	16.76	1.52	Gravel Boulder	Gravel	
16.76	19.81	3.05	Green Very Soft Rotten Decomposed Water Supply	Invalid Code	
19.81	22.86	3.05	Sandstone Slightly Soft	Sandstone	
22.86	31.39	8.53	Sandstone Slightly Hard	Sandstone	
31.39	34.74	3.35	Sandstone Fractured Broken Water Supply	Sandstone	
34.74	37.18	2.44	Sandstone Light Blue Some Hard Bands Dark	Sandstone	

Remarks

*** End of GW012581 ***

NSW OFFICE OF WATER

Work Summary

GW012769

Converted From HYDSYS

Licence :10BL004691		Authorised Purpose(s)	Intended Purpose(s)
Work Type	:Bore open thru rock	IRRIGATION	IRRIGATION
Work Status	:(Unknown)	STOCK	
Construct. Method	:Cable Tool		
Owner Type	:Private		
Commenced Date	:	Final Depth :	16.10 m
Completion Date	:01-Dec-1956	Drilled Depth :	16.20 m
Contractor Name	:		
Driller	:		
Assistant Driller's Name	:		
Property	: - N/A	Standing Water Level :	
GWMA	:603 - SYDNEY BASIN	Salinity :	1001-3000 ppm
GW Zone	: -	Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	6
	Licensed :CAMDEN	CALDERWOOD	6
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6174755	Latitude (S) :34° 32' 51"
Elevation Source :(Unknown)		Easting :290385	Longitude (E) :150° 42' 56"
GS Map :0075C3	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	0.00	12.80	127			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
2.70	2.70	0.00	Unconsolidated						(Unknown)
10.00	11.50	1.50	Consolidated	3.60		0.25			(Unknown)
14.90	15.20	0.30	Fractured	1.50		0.76			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.13	2.13	Loam Sandy	Loam	
2.13	2.74	0.61	Gravel	Gravel	
2.74	3.65	0.91	Boulders Water Supply	Boulders	
3.65	5.48	1.83	Sandstone	Sandstone	
5.48	7.01	1.53	Shale Black	Shale	
7.01	8.22	1.21	Shale Black Hard	Shale	
8.22	8.53	0.31	Clay Black	Clay	
8.53	10.05	1.52	Shale Grey	Shale	
10.05	11.58	1.53	Sandstone Water Supply	Sandstone	
11.58	14.02	2.44	Shale	Shale	
14.02	14.93	0.91	Shale Hard	Shale	
14.93	15.24	0.31	Shale Coarse Water Supply	Shale	
15.24	16.15	0.91	Shale Very Hard	Shale	

Remarks

*** End of GW012769 ***

NSW OFFICE OF WATER

Work Summary

GW012775

Converted From HYDSYS

Licence :10BL004717

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
IRRIGATION

Commenced Date : Final Depth : 19.50 m
Completion Date :01-Dec-1956 Drilled Depth : 19.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity : 501-1000 ppm
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
6
6

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9028-4N ROBERTSON
Grid Zone :56/1 Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6174769 Latitude (S) :34° 32' 50"
Easting :289645 Longitude (E) :150° 42' 27"

GS Map :0075C3 MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	5.70	152			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.60	8.50	0.90	Fractured	3.60		0.13			(Unknown)
15.20	19.40	4.20	Fractured	2.40		0.45			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.37	1.37	Soil Stones	Soil	
1.37	3.35	1.98	Clay	Clay	
3.35	8.53	5.18	Shale Water Supply	Shale	
8.53	9.44	0.91	Sandstone Grey	Sandstone	
9.44	13.71	4.27	Shale	Shale	
13.71	14.02	0.31	Sandstone Hard	Sandstone	
14.02	19.50	5.48	Shale Water Supply	Shale	

Remarks

*** End of GW012775 ***

NSW OFFICE OF WATER

Work Summary

GW013023

Converted From HYDSYS

Licence :10BL005857

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 15.20 m
Completion Date :01-Nov-1956 Drilled Depth : 15.20 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GREENSLOPES
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : 501-1000 ppm
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
156
156

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6185600
Easting :298516

Latitude (S) :34° 27' 5"
Longitude (E) :150° 48' 24"

GS Map :0075D2

MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	-0.30	8.90	152			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
6.40	6.70	0.30	(Unknown)			0.06			(Unknown)
10.90	11.80	0.90	Fractured	0.90					(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Soil	Soil	
0.30	1.52	1.22	Clay Yellow Plastic	Clay	
1.52	2.59	1.07	Coal Soft	Coal	
2.59	6.40	3.81	Clay Light Grey Yellow Slightly Sandy	Clay	
6.40	6.70	0.30	Mud Shale Bands Water Supply	Mud	
6.40	6.70	0.30	Clay	Clay	
6.70	8.22	1.52	Shale Dark Soft	Shale	
8.22	8.83	0.61	Shale Light Grey Soft	Shale	
8.83	10.97	2.14	Shale Light Grey	Shale	
10.97	11.88	0.91	Shale Light Grey Fractured Water Supply	Shale	
11.88	15.24	3.36	Shale Light Grey Hard Small Dark Bands	Shale	

Remarks

*** End of GW013023 ***

NSW OFFICE OF WATER

Work Summary

GW013164

Converted From HYDSYS

Licence :10BL006235

Work Type : Bore open thru rock	Authorised Purpose(s) STOCK	Intended Purpose(s) STOCK
Work Status : Supply Obtained		
Construct. Method : Cable Tool		
Owner Type : Private		
Commenced Date :	Final Depth : 21.90 m	
Completion Date : 01-Jan-1944	Drilled Depth : 21.90 m	
Contractor Name :		
Driller :		
Assistant Driller's Name :		
Property : - N/A	Standing Water Level :	
GWMA : 603 - SYDNEY BASIN	Salinity :	(Unknown)
GW Zone : -	Yield :	

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish CALDERWOOD CALDERWOOD	Portion/Lot DP 7 7 751263
Region : 10 - SYDNEY SOUTH COAST		CMA Map : 9028-4N	ROBERTSON
River Basin : 214 - WOLLONGONG COAST		Grid Zone : 56/1	Scale : 1:25,000
Area / District :			
Elevation :		Northing : 6174642	Latitude (S) : 34° 32' 55"
Elevation Source : (Unknown)		Easting : 290873	Longitude (E) : 150° 43' 15"
GS Map : 0075C3	MGA Zone : 56	Coordinate Source : GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	5.70	127			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
(No Water Bearing Zone Details Found)									

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.65	3.65	Clay Yellow	Clay	
3.65	21.94	18.29	Shale	Shale	

Remarks

*** End of GW013164 ***

NSW OFFICE OF WATER

Work Summary

GW013165

Converted From HYDSYS

Licence :10BL006234

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
STOCK

Intended Purpose(s)
STOCK

Commenced Date : Final Depth : 21.90 m
Completion Date :01-Jan-1942 Drilled Depth : 21.90 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	7
	Licensed :CAMDEN	CALDERWOOD	7 751263
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6174610	Latitude (S) :34° 32' 56"
Elevation Source :(Unknown)		Easting :290797	Longitude (E) :150° 43' 12"
GS Map :0075C3	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.40	8.70	127			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
15.20	15.80	0.60	Fractured	6.00		1.26			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	6.09	6.09	Clay Yellow	Clay	
6.09	21.94	15.85	Shale Water Supply	Shale	

Remarks

*** End of GW013165 ***

NSW OFFICE OF WATER

Work Summary

GW013401

Converted From HYDSYS

Licence :10BL005223

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
STOCK

Intended Purpose(s)
STOCK

Commenced Date : Final Depth : 27.40 m
Completion Date :01-Oct-1941 Drilled Depth : 0.00

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - CORAL VALE
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
236
236

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6183173
Easting :294637

Latitude (S) :34° 28' 21"
Longitude (E) :150° 45' 50"

GS Map :0075D2

MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	-0.30	8.80	127			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
27.40	27.40	0.00	(Unknown)	4.50					(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW013401 ***

NSW OFFICE OF WATER

Work Summary

GW013424

Converted From HYDSYS

Licence :10BL006260			
Work Type :Bore open thru rock		Authorised Purpose(s)	Intended Purpose(s)
Work Status :(Unknown)		STOCK	STOCK
Construct. Method :Cable Tool			
Owner Type :Private			
Commenced Date :		Final Depth :	10.90 m
Completion Date :01-Jan-1944		Drilled Depth :	11.00 m
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - N/A		Standing Water Level :	
GWMA :603 - SYDNEY BASIN		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	7
		Licensed :CAMDEN	CALDERWOOD	3 751263
Region :10 - SYDNEY SOUTH COAST			CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6174601	Latitude (S) :34° 32' 57"
Elevation Source :(Unknown)			Easting :291766	Longitude (E) :150° 43' 50"
GS Map :0075C3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	5.70	127			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
9.10	9.70	0.60	Fractured	3.60		1.26			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.65	3.65	Clay Yellow	Clay	
3.65	10.97	7.32	Shale Water Supply	Shale	

Remarks

*** End of GW013424 ***

NSW OFFICE OF WATER

Work Summary

GW013626

Converted From HYDSYS

Licence :10BL008980			Authorised Purpose(s) FARMING		Intended Purpose(s) GENERAL USE
Work Type :Bore open thru rock					
Work Status :(Unknown)					
Construct. Method :Cable Tool					
Owner Type :Private					
Commenced Date :	Final Depth :	57.90 m			
Completion Date :01-Aug-1958	Drilled Depth :	57.90 m			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - N/A			Standing Water Level :		
GWMA : -			Salinity :		invalid code
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	KEMBLA	54
		Licensed :CAMDEN	KEMBLA	4 751278
Region :10 - SYDNEY SOUTH COAST			CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6181687	Latitude (S) :34° 29' 10"
Elevation Source :(Unknown)			Easting :295742	Longitude (E) :150° 46' 32"
GS Map :0075D2	MGA Zone :56		Coordinate Source :PR.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	0.00	2.70	152			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
52.40	53.60	1.20	Fractured	24.30		0.76			invalid code

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.43	2.43	Clay Yellow	Clay	
2.43	5.48	3.05	Shale Sandy	Shale	
5.48	44.50	39.02	Rock Volcanic	Rock	
44.50	44.59	0.09	Quartz	Quartz	
44.59	52.42	7.83	Rock Volcanic	Rock	
52.42	53.64	1.22	Shale Water Supply	Shale	
53.64	57.91	4.27	Shale Rock Volcanic	Shale	

Remarks

*** End of GW013626 ***

NSW OFFICE OF WATER

Work Summary

GW013668

Converted From HYDSYS

Licence :10BL009161

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
GENERAL USE

Commenced Date : Final Depth : 57.90 m
Completion Date :01-Jan-1946 Drilled Depth : 57.90 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - HORSLEY
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 54 7 751278
Region :10 - SYDNEY SOUTH COAST River Basin :214 - WOLLONGONG COAST Area / District :	CMA Map :9029-2S Grid Zone :56/1	WOLLONGONG Scale :1:25,000	
Elevation : Elevation Source :(Unknown)	Northing :6181722 Easting :295945	Latitude (S) :34° 29' 9" Longitude (E) :150° 46' 40"	
GS Map :0075D2 MGA Zone :56	Coordinate Source :PR.,ACC.MAP		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing (Unknown)	0.00	3.00	152			(Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.43	2.43	Clay Yellow	Clay	
2.43	5.48	3.05	Shale Sandy	Shale	
5.48	52.42	46.94	Rock Volcanic	Rock	
52.42	57.91	5.49	Rock Volcanic	Rock	
52.42	57.91	5.49	Shale	Shale	

Remarks

*** End of GW013668 ***

NSW OFFICE OF WATER

Work Summary

GW015075

Converted From HYDSYS

Licence :10BL006148			Authorised Purpose(s)		Intended Purpose(s)	
Work Type :Bore open thru rock			STOCK		STOCK	
Work Status :(Unknown)						
Construct. Method :Cable Tool						
Owner Type :Private						
Commenced Date :		Final Depth :	21.30 m			
Completion Date :01-Jan-1957		Drilled Depth :	21.30 m			
Contractor Name :						
Driller :						
Assistant Driller's Name :						
Property : - FAIRVIEW DAIRY PTY LTD			Standing Water Level :			
GWMA :603 - SYDNEY BASIN			Salinity :		1001-3000 ppm	
GW Zone : -			Yield :			

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	7
	Licensed :CAMDEN	CALDERWOOD	4 658267
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6174362	Latitude (S) :34° 33' 5"
Elevation Source :(Unknown)		Easting :292129	Longitude (E) :150° 44' 4"
GS Map :0075C3	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	0.00	8.00	152			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.80	12.70	0.90	(Unknown)	3.90					(Unknown)
15.50	15.80	0.30	Fractured	3.30					(Unknown)
17.60	17.90	0.30	Fractured	2.10		0.76			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.65	3.65	Sand Loam	Sand	
3.65	4.57	0.92	Clay Black	Clay	
4.57	6.70	2.13	Clay Yellow	Clay	
6.70	7.01	0.31	Sand	Sand	
7.01	7.77	0.76	Gravel	Gravel	
7.77	7.92	0.15	Clay Black	Clay	
7.92	8.22	0.30	Sand	Sand	
8.22	11.88	3.66	Shale	Shale	
11.88	12.80	0.92	Shale Sandstone Water Supply	Shale	
12.80	15.54	2.74	Shale Hard	Shale	
15.54	15.84	0.30	Shale Soft Water Supply	Shale	
15.84	17.67	1.83	Shale	Shale	
17.67	17.98	0.31	Shale Soft Water Supply	Shale	
17.98	21.33	3.35	Shale	Shale	

Remarks

*** End of GW015075 ***

NSW OFFICE OF WATER

Work Summary

GW015076

Converted From HYDSYS

Licence :10BL006147

Work Type : Bore open thru rock	Authorised Purpose(s) STOCK	Intended Purpose(s) STOCK
Work Status : (Unknown)		
Construct. Method : Cable Tool		
Owner Type : Private		
Commenced Date :	Final Depth : 15.20 m	
Completion Date : 01-Jan-1957	Drilled Depth : 15.20 m	
Contractor Name :		
Driller :		
Assistant Driller's Name :		
Property : - N/A	Standing Water Level :	
GWMA : 603 - SYDNEY BASIN	Salinity :	1001-3000 ppm
GW Zone : -	Yield :	

Site Details

Site Chosen By	County Form A : CAMDEN Licensed : CAMDEN	Parish CALDERWOOD CALDERWOOD	Portion/Lot DP 7 7
Region : 10 - SYDNEY SOUTH COAST	CMA Map : 9028-4N	ROBERTSON	
River Basin : 214 - WOLLONGONG COAST	Grid Zone : 56/1	Scale : 1:25,000	
Area / District :			
Elevation :	Northing : 6174885	Latitude (S) : 34° 32' 48"	
Elevation Source : (Unknown)	Easting : 292066	Longitude (E) : 150° 44' 2"	
GS Map : 0075C3	MGA Zone : 56	Coordinate Source : GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing (Unknown)	-0.30	-0.30	0			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.00	8.20	1.20	Unconsolidated	1.80		0.13			(Unknown)
12.10	13.00	0.90	Fractured	4.80		0.38			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.45	0.45	Soil	Soil	
0.45	3.65	3.20	Clay Yellow	Clay	
3.65	7.01	3.36	Clay Black Plastic	Clay	
7.01	8.22	1.21	Clay Yellow Water Supply	Clay	
8.22	9.14	0.92	Sandstone	Sandstone	
9.14	10.66	1.52	Shale	Shale	
10.66	12.19	1.53	Shale Hard	Shale	
12.19	13.10	0.91	Rock Shale Water Supply	Rock	
13.10	15.24	2.14	Shale Hard	Shale	

Remarks

*** End of GW015076 ***

NSW OFFICE OF WATER

Work Summary

GW015266

Converted From HYDSYS

Licence :10BL005995			Authorised Purpose(s) DOMESTIC FARMING IRRIGATION STOCK	Intended Purpose(s) GENERAL USE
Work Type :Bore open thru rock				
Work Status :(Unknown)				
Construct. Method :Cable Tool				
Owner Type :Private				
Commenced Date :		Final Depth :	13.40 m	
Completion Date :01-Mar-1957		Drilled Depth :	13.40 m	
Contractor Name :				
Driller :				
Assistant Driller's Name :				
Property : - N/A			Standing Water Level : Salinity : Yield :	3001-7000 ppm
GWMA : -				
GW Zone : -				

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	49
	Licensed :CAMDEN	KEMBLA	49
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6179988	Latitude (S) :34° 30' 3"
Elevation Source :(Unknown)		Easting :292819	Longitude (E) :150° 44' 36"
GS Map :0075C3	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	0.00	7.60	152			Seated

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.60	11.50	0.90	(Unknown)	1.90		1.14			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.60	0.60	Soil	Soil	
0.60	3.04	2.44	Clay Yellow	Clay	
3.04	7.01	3.97	Clay Yellow	Clay	
3.04	7.01	3.97	Rock Decomposed	Rock	
7.01	7.62	0.61	Shale	Shale	
7.62	10.66	3.04	Shale Dark Grey	Shale	
10.66	11.58	0.92	Shale Grey Sandstone Bands	Shale	
11.58	13.41	1.83	Shale Grey Hard	Shale	

Remarks

*** End of GW015266 ***

NSW OFFICE OF WATER

Work Summary

GW016480

Converted From HYDSYS

Licence :10BL006853			
Work Type :Bore		Authorised Purpose(s)	Intended Purpose(s)
Work Status :Supply Obtained		STOCK	STOCK
Construct. Method :(Unknown)			
Owner Type :Private			
Commenced Date :		Final Depth :	41.00 m
Completion Date :28-Feb-1983		Drilled Depth :	41.00 m
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - FARMBOROUGH HEIGHTS		Standing Water Level :	
GWMA : -		Salinity :	Hard
GW Zone : -		Yield :	0.00 pump depth 39.00 m

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	KEMBLA	1//628538
		Licensed :CAMDEN	KEMBLA	PT 21
Region :10 - SYDNEY SOUTH COAST			CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6184924	Latitude (S) :34° 27' 27"
Elevation Source :(Unknown)			Easting :298607	Longitude (E) :150° 48' 27"
GS Map :0075D2	MGA Zone :56		Coordinate Source :PR.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	-0.10	41.00	152			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
(No Water Bearing Zone Details Found)									

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Updated details as per existing data.

*** End of GW016480 ***

NSW OFFICE OF WATER

Work Summary

GW017381

Converted From HYDSYS

Licence :10BL009249

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :(Unknown)
Owner Type :Private

Authorised Purpose(s)
IRRIGATION
STOCK

Intended Purpose(s)
IRRIGATION

Commenced Date : Final Depth : 31.30 m
Completion Date : Drilled Depth : 31.40 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - FARMBOROUGH
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	157
	Licensed :CAMDEN	KEMBLA	157
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6185199	Latitude (S) :34° 27' 18"
Elevation Source :(Unknown)		Easting :298499	Longitude (E) :150° 48' 23"
GS Map :0075D2	MGA Zone :56	Coordinate Source :PR.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
15.80	15.90	0.10	Fractured	13.40		0.13			(Unknown)
26.80	28.30	1.50	Fractured	13.40		0.44			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	13.41	13.41	Clay Stones	Clay	
0.00	13.41	13.41	Rock Decomposed	Rock	
13.41	26.82	13.41	Basalt Rock Water Supply	Basalt	
26.82	28.34	1.52	Rock Water Supply	Rock	
28.34	31.39	3.05	Shale	Shale	

Remarks

*** End of GW017381 ***

NSW OFFICE OF WATER

Work Summary

GW017768

Converted From HYDSYS

Licence :10BL009938

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
GENERAL USE
STOCK

Intended Purpose(s)
GENERAL USE

Commenced Date : Final Depth : 9.10 m
Completion Date :01-Sep-1959 Drilled Depth : 9.10 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - ELLAMATTA
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : Good
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
302
302

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6184646
Easting :297132

Latitude (S) :34° 27' 35"
Longitude (E) :150° 47' 29"

GS Map :0075D2 MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.10	6.60	127			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
4.80	5.70	0.90	Unconsolidated	1.30					(Unknown)
6.70	9.10	2.40	Consolidated	1.30		0.30			Good

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.91	0.91	Topsoil	Topsoil	
0.91	2.43	1.52	Clay Sand	Clay	
2.43	4.87	2.44	Clay Bands	Clay	
4.87	5.79	0.92	Gravel Water Supply	Gravel	
5.79	6.70	0.91	Gravel Clay	Gravel	
6.70	9.14	2.44	Sandstone Yellow Water Supply	Sandstone	

Remarks

*** End of GW017768 ***

NSW OFFICE OF WATER

Work Summary

GW022780

Converted From HYDSYS

Licence :		Authorised Purpose(s)	Intended Purpose(s)
Work Type : Bore			NOT KNOWN
Work Status : Collapsed Bore			
Construct. Method : Auger			
Owner Type : Private			
Commenced Date :	Final Depth :	8.20 m	
Completion Date : 01-Jan-1961	Drilled Depth :	8.20 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property :		Standing Water Level :	
GWMA : -		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A : CAMDEN	CALDERWOOD	10
	Licensed :		
Region : 10 - SYDNEY SOUTH COAST		CMA Map : 9028-4N	ROBERTSON
River Basin : 214 - WOLLONGONG COAST		Grid Zone : 56/1	Scale : 1:25,000
Area / District :			
Elevation :		Northing : 6174272	Latitude (S) : 34° 33' 9"
Elevation Source : (Unknown)		Easting : 293610	Longitude (E) : 150° 45' 2"
GS Map : 0075C3	MGA Zone : 56	Coordinate Source : GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
(No Water Bearing Zone Details Found)									

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	8.22	8.22	Clay Nominal	Clay	
8.22	8.23	0.01	Rock	Rock	

Remarks

*** End of GW022780 ***

NSW OFFICE OF WATER

Work Summary

GW028786

Converted From HYDSYS

Licence :10BL022544

Work Type :Bore open thru rock	Authorised Purpose(s) STOCK	Intended Purpose(s) STOCK
Work Status :(Unknown)		
Construct. Method :Rotary		
Owner Type :Private		
Commenced Date :	Final Depth :	55.70 m
Completion Date :01-May-1968	Drilled Depth :	55.80 m
Contractor Name :		
Driller :		
Assistant Driller's Name :		
Property : - WOLLONGONG CITY COUNCIL	Standing Water Level :	
GWMA : -	Salinity :	(Unknown)
GW Zone : -	Yield :	

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 45 45
Region :10 - SYDNEY SOUTH COAST	CMA Map :9029-2S	WOLLONGONG	
River Basin :214 - WOLLONGONG COAST	Grid Zone :56/1	Scale :1:25,000	
Area / District :			
Elevation :	Northing :6182868	Latitude (S) :34° 28' 32"	
Elevation Source :(Unknown)	Easting :296175	Longitude (E) :150° 46' 50"	
GS Map :0075D2	MGA Zone :56	Coordinate Source :PR.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	19.80	127			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
20.10	20.70	0.60	Fractured	12.10		0.13			(Unknown)
55.40	55.70	0.30	Consolidated	5.90		9.09			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Made Ground	Fill	
0.30	20.11	19.81	Clay Gravel Mixed	Clay	
20.11	30.17	10.06	Rock Green Basaltic Water Supply	Rock	
30.17	40.23	10.06	Basalt	Basalt	
40.23	55.77	15.54	Sandstone Grey Water Supply	Sandstone	

Remarks

*** End of GW028786 ***

NSW OFFICE OF WATER

Work Summary

GW031499

Converted From HYDSYS

Licence :10BL023339			Authorised Purpose(s) IRRIGATION		Intended Purpose(s) IRRIGATION
Work Type :Excavation					
Work Status :Reconditioned Bore					
Construct. Method :< 100 sq.m.					
Owner Type :Private					
Commenced Date :	Final Depth :	6.40 m			
Completion Date :	Drilled Depth :	0.00			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - N/A			Standing Water Level :		
GWMA :603 - SYDNEY BASIN			Salinity :		invalid code
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	10
		Licensed :CAMDEN	CALDERWOOD	2 751263
Region :10 - SYDNEY SOUTH COAST			CMA Map :9028-1N	ALBION PARK
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6173371	Latitude (S) :34° 33' 39"
Elevation Source :(Unknown)			Easting :294650	Longitude (E) :150° 45' 42"
GS Map :0075D3	MGA Zone :56		Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	0.00	0.00	7629			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
(No Water Bearing Zone Details Found)									

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Changed from 4.88m to 6.4m on 01/01/68

*** End of GW031499 ***

NSW OFFICE OF WATER

Work Summary

GW031515

Converted From HYDSYS

Licence :10BL023229

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
FARMING
STOCK

Intended Purpose(s)
STOCK

Commenced Date : Final Depth : 30.40 m
Completion Date :01-Dec-1966 Drilled Depth : 30.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - THE MEADOWS
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity : Salty
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	11
	Licensed :CAMDEN	CALDERWOOD	3 751263
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N	ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6173567	Latitude (S) :34° 33' 33"
Elevation Source :(Unknown)		Easting :295156	Longitude (E) :150° 46' 2"
GS Map :0075D3	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing (Unknown)	-0.30	16.40	152			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
21.90	22.80	0.90	Fractured	6.00		0.95			Salty

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.60	0.60	Soil Sandy	Soil	
0.60	6.09	5.49	Loam Sandy	Loam	
6.09	16.45	10.36	Clay Gravel Plastic	Clay	
16.45	21.94	5.49	Shale Grey Sandy	Shale	
21.94	22.86	0.92	Shale Fractured Water Supply	Shale	
22.86	30.48	7.62	Shale Grey Hard Sandy	Shale	

Remarks

*** End of GW031515 ***

NSW OFFICE OF WATER

Work Summary

GW031974

Converted From HYDSYS

Licence :10BL023088			Authorised Purpose(s) DOMESTIC		Intended Purpose(s) IRRIGATION
Work Type :Bore open thru rock					
Work Status :(Unknown)					
Construct. Method :Rotary					
Owner Type :Private					
Commenced Date :	Final Depth :	33.50 m			
Completion Date :01-Jan-1969	Drilled Depth :	33.50 m			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - HAZELTON			Standing Water Level :		
GWMA : -			Salinity :		invalid code
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	JAMBEROO	1
		Licensed :CAMDEN	JAMBEROO	303 1039144
Region :10 - SYDNEY SOUTH COAST			CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6170932	Latitude (S) :34° 34' 55"
Elevation Source :(Unknown)			Easting :290395	Longitude (E) :150° 42' 53"
GS Map :0075C3	MGA Zone :56		Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	0.00	0.00	152			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.70	11.70	0.00	Fractured			15.16			invalid code

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.91	0.91	Loam	Loam	
0.00	0.91	0.91	Clay Gravel	Clay	
0.91	2.59	1.68	Clay Grey Sandy	Clay	
0.91	2.59	1.68	Boulders	Boulders	
0.91	2.59	1.68	Sandstone Decomposed	Sandstone	
2.59	4.26	1.67	Sandstone Grey Fine	Sandstone	
4.26	5.63	1.37	Sandstone Decomposed	Sandstone	
5.63	6.40	0.77	Clay Sandy Decomposed Bands	Clay	
6.40	10.97	4.57	Clay Sandy	Clay	
6.40	10.97	4.57	Shale Seams	Shale	
10.97	12.34	1.37	Basalt Water Supply	Basalt	
12.34	15.54	3.20	Basalt	Basalt	
12.34	15.54	3.20	Sandstone Soft Seams	Sandstone	
15.54	17.06	1.52	Basalt Black	Basalt	
17.06	21.64	4.58	Basalt Hard	Basalt	
21.64	33.52	11.88	Basalt	Basalt	

Remarks

BORE DISMANTLED IN 1971

*** End of GW031974 ***

NSW OFFICE OF WATER

Work Summary

GW033073

Converted From HYDSYS

Licence :10BL023895

Authorised Purpose(s)
NOT KNOWN

Intended Purpose(s)
IRRIGATION

Work Type :Bore
Work Status :(Unknown)
Construct. Method :(Unknown)
Owner Type :Private

Commenced Date : Final Depth : 60.90 m
Completion Date : Drilled Depth : 61.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - MARSHALL MOUNT
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	7
	Licensed :CAMDEN	CALDERWOOD	7
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6174755	Latitude (S) :34° 32' 53"
Elevation Source :(Unknown)		Easting :293140	Longitude (E) :150° 44' 44"
GS Map :0075C3	MGA Zone :56	Coordinate Source :PR.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
27.40	27.40	0.00	Consolidated						(Unknown)
44.10	44.10	0.00	Consolidated						(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.04	3.04	Soil	Soil	
3.04	60.96	57.92	Sandstone Water Supply	Sandstone	

Remarks

*** End of GW033073 ***

NSW OFFICE OF WATER

Work Summary

GW033541

Converted From HYDSYS

Licence :10BL026435			Authorised Purpose(s) DOMESTIC		Intended Purpose(s) IRRIGATION
Work Type :Well					
Work Status :Test Hole					
Construct. Method :(Unknown)					
Owner Type :Private					
Commenced Date :	Final Depth :	0.00			
Completion Date :01-Feb-1968	Drilled Depth :	6.10 m			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - N/A			Standing Water Level :		
GWMA :603 - SYDNEY BASIN			Salinity :		V.Salty
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	16
		Licensed :CAMDEN	CALDERWOOD	6 751263
Region :10 - SYDNEY SOUTH COAST			CMA Map :9028-1N	ALBION PARK
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6178953	Latitude (S) :34° 30' 39"
Elevation Source :(Unknown)			Easting :296185	Longitude (E) :150° 46' 47"
GS Map :0075D3	MGA Zone :56		Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Backfill	Backfill	0.00	6.00	914			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
5.40	6.00	0.60	Unconsolidated	3.00					(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	5.48	5.48	Clay	Clay	
5.48	6.09	0.61	Sand Water Supply	Sand	

Remarks

*** End of GW033541 ***

NSW OFFICE OF WATER

Work Summary

GW037283

Converted From HYDSYS

Licence :10BL162508

Work Type :Bore open thru rock
Work Status :Supply Obtained
Construct. Method :(Unknown)
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 32.90 m
Completion Date :01-Oct-1968 Drilled Depth : 32.90 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - CASSAR
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
LT 29 DP 23265
29 23265

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9028-1N
Grid Zone :56/1

ALBION PARK
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6179191
Easting :295469

Latitude (S) :34° 30' 31"
Longitude (E) :150° 46' 19"

GS Map :0075D3

MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.20	15.60	152			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
9.70	10.00	0.30	Unconsolidated	6.00		0.32			(Unknown)
14.30	14.60	0.30	Unconsolidated	6.00		0.63			(Unknown)
30.40	30.50	0.10	Fractured	6.00		1.26			(Unknown)
31.00	31.30	0.30	Fractured	6.00		4.55			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.45	0.45	Topsoil	Topsoil	
0.45	2.43	1.98	Clay Grey Puggy	Clay	
2.43	9.75	7.32	Clay Sandy	Clay	
9.75	12.49	2.74	Silt Sandy Water Supply	Silt	
9.75	12.49	2.74	Gravel	Gravel	
12.49	14.32	1.83	Clay Grey Puggy	Clay	
14.32	15.54	1.22	Silt Sandy Water Supply	Silt	
14.32	15.54	1.22	Gravel	Gravel	
15.54	16.45	0.91	Shale Grey Sandy	Shale	
16.45	32.91	16.46	Tuff White Light Grey Dark Grey Water Supply	Tuff	

Remarks

Previous Lic No: 10BL030335

*** End of GW037283 ***

NSW OFFICE OF WATER

Work Summary

GW038648

Converted From HYDSYS

Licence :10BL600308		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore		DOMESTIC	DOMESTIC
Work Status :Supply Obtained			
Construct. Method :Rotary			
Owner Type :Private			
Commenced Date :	Final Depth :	94.40 m	
Completion Date :01-Feb-1969	Drilled Depth :	94.50 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - PYERS		Standing Water Level :	6.00 m
GWMA : -		Salinity :	S.Brackish
GW Zone : -		Yield :	2.53 L/s

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	7 259137
	Licensed :CAMDEN	CALDERWOOD	7 259137
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6171657	Latitude (S) :34° 34' 33"
Elevation Source :(Unknown)		Easting :292470	Longitude (E) :150° 44' 15"
GS Map :0075C3	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.70	14.50	152			Suspended in Clamps
1	1	Opening	Slots	7.60	13.60	152	1		SL: 0mm; A: 0mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
9.10	12.10	3.00	Unconsolidated		6.00	2.53			S.Brackish

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.21	1.21	Soil	Soil	
1.21	9.14	7.93	Clay	Clay	
9.14	12.19	3.05	Gravel Water Supply	Gravel	
12.19	94.48	82.29	Basalt Black	Basalt	

Remarks

PREVIOUS LIC NO: 10BL101156 PREVIOUS LIC NO: 10BL158866

*** End of GW038648 ***

NSW OFFICE OF WATER

Work Summary

GW051493

Converted From HYDSYS

Licence :10BL115829		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore		DOMESTIC	DOMESTIC
Work Status :(Unknown)			
Construct. Method :Rotary Air			
Owner Type :Private			
Commenced Date :		Final Depth :	
Completion Date :01-Dec-1980		Drilled Depth :	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - N/A		Standing Water Level :	
GWMA : -		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	L1 (9)
		Licensed :CAMDEN	CALDERWOOD	1 608238
Region :10 - SYDNEY SOUTH COAST			CMA Map :9028-4N	ROBERTSON
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6173518	Latitude (S) :34° 33' 33"
Elevation Source :(Unknown)			Easting :292649	Longitude (E) :150° 44' 24"
GS Map :0075C3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	4.50	150			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
33.00	34.00	1.00	(Unknown)	24.40		1.20			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Soil	Soil	
0.30	3.00	2.70	Clay	Clay	
3.00	33.00	30.00	Shale	Shale	
33.00	34.00	1.00	Water Supply	(Unknown)	
34.00	61.00	27.00	Shale	Shale	

Remarks

*** End of GW051493 ***

NSW OFFICE OF WATER

Work Summary

GW053056

Converted From HYDSYS

Licence :10BL117208

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
IRRIGATION
STOCK

Intended Purpose(s)
IRRIGATION

Commenced Date : Final Depth : 60.00 m
Completion Date :01-Dec-1980 Drilled Depth : 68.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish CALDERWOOD CALDERWOOD	Portion/Lot DP L11 (10) L11 (10)
Region :10 - SYDNEY SOUTH COAST River Basin :214 - WOLLONGONG COAST Area / District :	CMA Map :9028-1N Grid Zone :56/1	ALBION PARK Scale :1:25,000	
Elevation : Elevation Source :(Unknown)	Northing :6173910 Easting :293975	Latitude (S) :34° 33' 21" Longitude (E) :150° 45' 16"	
GS Map :0075D3 MGA Zone :56	Coordinate Source :GD.,ACC.MAP		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Backfill	Backfill	60.00	68.00	0			
1	1	Casing	Nil	0.00	0.00	0			(Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	Soil	Soil	
1.00	10.00	9.00	Clay	Clay	
10.00	68.00	58.00	Shale	Shale	

Remarks

*** End of GW053056 ***

NSW OFFICE OF WATER

Work Summary

GW062030

Converted From HYDSYS

Licence :10BL122283			Authorised Purpose(s)		Intended Purpose(s)
Work Type :Bore			DOMESTIC		IRRIGATION
Work Status :(Unknown)			IRRIGATION		
Construct. Method :(Unknown)			STOCK		
Owner Type :Private					
Commenced Date :			Final Depth :	6.10 m	
Completion Date :			Drilled Depth :	0.00	
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - N/A			Standing Water Level :		(Unknown)
GWMA : -			Salinity :		
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	15
		Licensed :CAMDEN	CALDERWOOD	NOT AVAILABLE
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N		ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1		Scale :1:25,000
Area / District :				
Elevation :		Northing :6178686		Latitude (S) :34° 30' 47"
Elevation Source :(Unknown)		Easting :295247		Longitude (E) :150° 46' 10"
GS Map :0075D3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW062030 ***

NSW OFFICE OF WATER

Work Summary

GW062042

Converted From HYDSYS

Licence :10BL124953

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :(Unknown)
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
IRRIGATION
STOCK

Intended Purpose(s)
IRRIGATION

Commenced Date : Final Depth : 55.00 m
Completion Date :01-Jan-1981 Drilled Depth : 0.00

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
L61 DP3331 (8)
NOT AVAILABLE

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9028-4N
Grid Zone :56/1

ROBERTSON
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6171338
Easting :290616

Latitude (S) :34° 34' 42"
Longitude (E) :150° 43' 2"

GS Map :0075C3 MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	0.00	0.00	150			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW062042 ***

NSW OFFICE OF WATER

Work Summary

GW062644

Converted From HYDSYS

Licence :10BL134869

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 13.70 m
Completion Date :01-Sep-1985 Drilled Depth : 13.70 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	50
	Licensed :CAMDEN	KEMBLA	14 255284
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6182113	Latitude (S) :34° 28' 55"
Elevation Source :(Unknown)		Easting :294099	Longitude (E) :150° 45' 28"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	5.90	60			Seated on Bottom
1	1	Casing	Pressure Cemented Casing	5.50	9.60	60			(Unknown)
1	1	Opening	Slots - Horizontal	3.90	5.90	60		1	Mechanically Slotted; SL: 0mm; A: 2mm
2		Backfill	Backfill	11.50	13.60	0			
2	2	Casing	P.V.C.	0.00	11.60	60			Cemented
2	2	Opening	Slots - Horizontal	9.60	11.60	60		2	Mechanically Slotted; SL: 0mm; A: 2mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Silt White Very Moist Loose Sandy	Silt	
0.30	5.50	5.20	Clay Black Grey Moist Stiff	Clay	
5.50	8.20	2.70	Clay Very Moist Fine-medium Sandy	Clay	
8.20	10.00	1.80	Sandstone Very Weathered	Sandstone	
10.00	11.60	1.60	Sandstone Purple Red Weathered Some Clay Bands	Sandstone	
11.60	13.70	2.10	Sandstone Purple Grey Slightly Weathered	Sandstone	

Remarks

REQD PART OF AIS IND WASTE PROJECT AT WANGAWILLI FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 HOLE 2-11.6M CAS 3-5 SCN 3 REFER HOLE 1-5.9M CAS 1 SCN 1 REFER

*** End of GW062644 ***

NSW OFFICE OF WATER

Work Summary

GW062645

Converted From HYDSYS

Licence :10BL134870

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 10.20 m
Completion Date :01-Sep-1985 Drilled Depth : 10.20 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 50 1 33650
Region :10 - SYDNEY SOUTH COAST River Basin :214 - WOLLONGONG COAST Area / District :	CMA Map :9029-2S Grid Zone :56/1	WOLLONGONG Scale :1:25,000	
Elevation : Elevation Source :(Unknown)	Northing :6181397 Easting :293809	Latitude (S) :34° 29' 18" Longitude (E) :150° 45' 16"	
GS Map :0075D2 MGA Zone :56	Coordinate Source :GD.,ACC.MAP		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	4.30	60			Seated on Bottom
1	1	Casing	Pressure Cemented Casing	4.30	8.00	60			(Unknown)
1	1	Opening	Slots - Horizontal	2.30	4.30	60		1	Mechanically Slotted; SL: 0mm; A: 2mm
2	2	Casing	P.V.C.	0.00	10.20	60			Cemented
2	2	Opening	Slots - Horizontal	8.00	10.20	60		2	Mechanically Slotted; SL: 0mm; A: 2mm

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	Silt Black Very Moist Fine Sandy	Silt	
0.50	4.30	3.80	Clay Black Grey Orange Moist Very Stiff Friable	Clay	
0.50	4.30	3.80	Slightly Sandy		
4.30	6.75	2.45	Sandstone Very Weathered	Sandstone	
6.75	10.20	3.45	Sandstone Ironstained Medium-coarse	Sandstone	

Remarks

REQD PART OF AIS IND WASTE PROJECT AT WANGAWILLI FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 HOLE 2-10.2M CAS 3-4 SCN 3 REFER HOLE 1-4.3M SCN 1 CAS 1 REFER

*** End of GW062645 ***

NSW OFFICE OF WATER

Work Summary

GW062646

Converted From HYDSYS

Licence :10BL134871

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 9.50 m
Completion Date :01-Oct-1985 Drilled Depth : 9.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
50
1 33650

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6181607
Easting :293549

Latitude (S) :34° 29' 11"
Longitude (E) :150° 45' 6"

GS Map :0075D2

MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	4.00	60			Seated on Bottom
1	1	Casing	Pressure Cemented Casing	4.30	7.50	60			(Unknown)
1	1	Opening	Slots - Horizontal	2.00	4.00	60		1	Mechanically Slotted; SL: 0mm; A: 2mm
2	2	Casing	P.V.C.	0.00	9.50	60			Cemented
2	2	Opening	Slots - Horizontal	7.50	9.50	60		2	Mechanically Slotted; SL: 0mm; A: 2mm

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.70	0.70	Silt Black Moist Loose Clayey	Silt	
0.70	4.00	3.30	Clay Black Grey Silty Some Fine-medium Gravel	Clay	
4.00	5.75	1.75	Sandstone Very Weathered	Sandstone	
5.75	8.40	2.65	Sandstone Black Purple White Coarse	Sandstone	
8.40	9.50	1.10	Sandstone Reddish	Sandstone	

Remarks

REQD PART OF AIS IND WASTE PROJECT AT WANGAWILLI FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 HOLE 2-9.5M CAS 3&4 SCN 3 REFER HOLE 1-4.0M CAS 1 SCN 1 REFER

*** End of GW062646 ***

NSW OFFICE OF WATER

Work Summary

GW062647

Converted From HYDSYS

Licence :10BL134872

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 7.80 m
Completion Date :01-Oct-1985 Drilled Depth : 7.80 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 50 10 33650
Region :10 - SYDNEY SOUTH COAST River Basin :214 - WOLLONGONG COAST Area / District :	CMA Map :9029-2S Grid Zone :56/1	WOLLONGONG Scale :1:25,000	
Elevation : Elevation Source :(Unknown)	Northing :6182131 Easting :293537	Latitude (S) :34° 28' 54" Longitude (E) :150° 45' 6"	
GS Map :0075D2 MGA Zone :56	Coordinate Source :GD.,ACC.MAP		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	2.00	60			Seated on Bottom
1	1	Casing	Pressure Cemented Casing	2.70	5.80	60			(Unknown)
1	1	Opening	Slots - Horizontal	0.00	2.00	60		1	Mechanically Slotted; SL: 0mm; A: 2mm
2	2	Casing	P.V.C.	0.00	7.80	60			Cemented
2	2	Opening	Slots - Horizontal	5.80	7.80	60		2	Mechanically Slotted; SL: 0mm; A: 2mm

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.40	0.40	Silt Black Very Moist Loose Clayey	Silt	
0.40	2.10	1.70	Clay Black Moist	Clay	
2.10	7.80	5.70	Sandstone Black Yellow Red Orange Some Weathered	Sandstone	

Remarks

REQD PART OF AIS IND WASTE PROJECT AT WANGAWILLI FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 HOLE 2-7.8M CAS 3&4 SCN 3 REFER HOLE 1-2.0M CAS 1 SCN 1 REFER

*** End of GW062647 ***

NSW OFFICE OF WATER

Work Summary

GW062648

Converted From HYDSYS

Licence :10BL134873

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 12.20 m
Completion Date :01-Oct-1985 Drilled Depth : 12.20 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 239 11 33650
Region :10 - SYDNEY SOUTH COAST River Basin :214 - WOLLONGONG COAST Area / District :	CMA Map :9029-2S Grid Zone :56/1	WOLLONGONG Scale :1:25,000	
Elevation : Elevation Source :(Unknown)	Northing :6181744 Easting :294158	Latitude (S) :34° 29' 7" Longitude (E) :150° 45' 30"	
GS Map :0075D2 MGA Zone :56	Coordinate Source :GD.,ACC.MAP		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	8.20	60			Seated on Bottom
1	1	Casing	Pressure Cemented Casing	8.30	10.20	60			(Unknown)
1	1	Opening	Slots - Horizontal	6.20	8.20	60		1	Mechanically Slotted; SL: 0mm; A: 2mm
2	2	Casing	P.V.C.	0.00	12.20	60			Cemented
2	2	Opening	Slots - Horizontal	10.20	12.20	60		2	Mechanically Slotted; SL: 0mm; A: 2mm

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Silt Black Slightly Moist Loose Sandy	Silt	
0.30	5.50	5.20	Clay Black Yellow Grey Moist Silty	Clay	
5.50	8.20	2.70	Clay Sandy Wet Coarse Gravel	Clay	
8.20	9.20	1.00	Sandstone Very Weathered	Sandstone	
9.20	12.20	3.00	Sandstone Grey Medium	Sandstone	

Remarks

REQD PART OF AIS IND WASTE PROJECT AT WANGAWILLI FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 HOLE 2-12.2M CAS 3&4 SCN 3 REFER HOLE 1-8.2M CAS 1 SCN 1 REFER

*** End of GW062648 ***

NSW OFFICE OF WATER

Work Summary

GW062649

Converted From HYDSYS

Licence :10BL134874

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 6.30 m
Completion Date :01-Oct-1985 Drilled Depth : 6.30 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 50 10 33650
Region :10 - SYDNEY SOUTH COAST River Basin :214 - WOLLONGONG COAST Area / District :	CMA Map :9029-2S Grid Zone :56/1	WOLLONGONG Scale :1:25,000	
Elevation : Elevation Source :(Unknown)	Northing :6181958 Easting :294077	Latitude (S) :34° 29' 0" Longitude (E) :150° 45' 27"	
GS Map :0075D2 MGA Zone :56	Coordinate Source :GD.,ACC.MAP		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	6.30	60			Cemented
1	1	Casing	Pressure Cemented Casing	0.90	4.30	60			(Unknown)
1	1	Opening	Slots - Horizontal	4.30	6.30	60		1	Mechanically Slotted; SL: 0mm; A: 2mm

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.40	0.40	Clay Grey Moist Silty	Clay	
0.00	0.40	0.40	Gravel Fine	Gravel	
0.40	6.30	5.90	Sandstone Orange Very Weathered	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WANGAWILLI

*** End of GW062649 ***

NSW OFFICE OF WATER

Work Summary

GW062852

Converted From HYDSYS

Licence :10BL134827		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore		DOMESTIC	DOMESTIC
Work Status :(Unknown)			
Construct. Method :(Unknown)			
Owner Type :Private			
Commenced Date :	Final Depth :	8.00 m	
Completion Date :01-Jan-1960	Drilled Depth :	0.00	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - HUNTLEY HERITAGE		Standing Water Level :	
GWMA : -		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	L2 DP229358 (28)
		Licensed :CAMDEN	CALDERWOOD	2 229358
Region :10 - SYDNEY SOUTH COAST			CMA Map :9028-4N	ROBERTSON
River Basin :421 - MACQUARIE RIVER			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6178488	Latitude (S) :34° 30' 51"
Elevation Source :(Unknown)			Easting :291883	Longitude (E) :150° 43' 58"
GS Map :0075C3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW062852 ***

NSW OFFICE OF WATER

Work Summary

GW063641

Converted From HYDSYS

Licence :10BL138443

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 15.70 m
Completion Date :01-May-1988 Drilled Depth : 15.70 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	50
	Licensed :CAMDEN	KEMBLA	50
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 35.40 m (A.H.D.)		Northing :6182110	Latitude (S) :34° 28' 55"
Elevation Source :R.L. at Surface		Easting :293971	Longitude (E) :150° 45' 23"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	10.70	107			(Unknown)
1	2	Casing	P.V.C.	0.00	15.70	56			Seated on Bottom
1	1	Casing	Drilled	0.00	15.70	153			(Unknown)
1	2	Opening	Slots	10.70	15.70	56	1		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	10.70	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
12.30	12.30	0.00	Consolidated						(Unknown)
14.80	14.80	0.00	Consolidated	5.50		0.10			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.50	2.50	Clay Reddish Sandy	Clay	
2.50	6.40	3.90	Sand Gravel Fine	Sand	
6.40	8.80	2.40	Sandstone Fine Weathered	Sandstone	
8.80	15.70	6.90	Sandstone Grey Fine Water Supply	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063641 ***

NSW OFFICE OF WATER

Work Summary

GW063642

Converted From HYDSYS

Licence :10BL138444

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 21.50 m
Completion Date :01-May-1988 Drilled Depth : 21.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	246
	Licensed :CAMDEN	KEMBLA	246
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 41.10 m (A.H.D.)		Northing :6182288	Latitude (S) :34° 28' 49"
Elevation Source :R.L. at Surface		Eastings :293636	Longitude (E) :150° 45' 10"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	0.00	11.60	107			(Unknown)
1	2	Casing	P.V.C.	0.00	21.50	56			Seated on Bottom
1	1	Casing	Drilled	0.00	21.50	153			(Unknown)
1	2	Opening	Slots	10.50	14.50	56		1	SL: 0mm; A: 0mm
1	2	Opening	Slots	16.50	21.50	56		2	SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	11.60	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
6.10	6.10	0.00	Consolidated			0.03			(Unknown)
11.50	11.50	0.00	Consolidated			0.01			(Unknown)
13.60	13.60	0.00	Consolidated			0.00			(Unknown)
16.00	16.00	0.00	Consolidated			0.30			(Unknown)
18.40	18.40	0.00	Consolidated			0.30			(Unknown)
20.20	20.20	0.00	Consolidated	6.10		2.80			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	4.50	4.50	Sand Gravel	Sand	
0.00	4.50	4.50	Clay Silty Gravel	Clay	
4.50	11.50	7.00	Sandstone Orange	Sandstone	
11.50	21.50	10.00	Sandstone Grey Fine Water Supply	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063642 ***

NSW OFFICE OF WATER

Work Summary

GW063643

Converted From HYDSYS

Licence :10BL138445

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 21.50 m
Completion Date :01-May-1988 Drilled Depth : 21.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	246
	Licensed :CAMDEN	KEMBLA	246
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 39.90 m (A.H.D.)		Northing :6182414	Latitude (S) :34° 28' 45"
Elevation Source :R.L. at Surface		Easting :293760	Longitude (E) :150° 45' 15"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	11.70	153			(Unknown)
1	1	Casing	P.V.C.	0.00	13.60	107			(Unknown)
1	2	Casing	P.V.C.	0.00	21.50	56			Seated on Bottom
1	1	Casing	Drilled	11.70	21.50	126			(Unknown)
1	2	Opening	Slots	12.00	21.50	56	1		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	11.70	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
6.00	6.00	0.00	Unconsolidated			0.00			(Unknown)
10.00	10.00	0.00	Consolidated			0.90			(Unknown)
11.80	11.80	0.00	(Unknown)			1.20			(Unknown)
13.50	13.50	0.00	Consolidated			0.01			(Unknown)
14.50	14.50	0.00	Consolidated			0.30			(Unknown)
16.00	16.00	0.00	Consolidated			1.70			(Unknown)
18.50	18.50	0.00	Consolidated			10.60			(Unknown)
21.50	21.50	0.00	Consolidated	4.60		11.00			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	10.50	10.50	Clay Sandy Water Supply	Clay	
0.00	10.50	10.50	Some Gravel		
10.50	12.20	1.70	Sand Gravel Fine-coarse Sub Rounded-rounded Water Supply	Sand	
12.20	13.00	0.80	Sandstone Fine Weathered Water Supply	Sandstone	
13.00	21.50	8.50	Sandstone Grey Fine Some Conglomerate Water Supply	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063643 ***

NSW OFFICE OF WATER

Work Summary

GW063644

Converted From HYDSYS

Licence :10BL138446

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 21.00 m
Completion Date :01-May-1988 Drilled Depth : 21.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	246
	Licensed :CAMDEN	KEMBLA	246
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 33.80 m (A.H.D.)		Northing :6182235	Latitude (S) :34° 28' 51"
Elevation Source :R.L. at Surface		Eastng :294045	Longitude (E) :150° 45' 26"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	7.80	153			(Unknown)
1	1	Casing	P.V.C.	0.00	9.40	107			(Unknown)
1	2	Casing	P.V.C.	0.00	21.00	56			Seated on Bottom
1	1	Casing	Drilled	7.80	21.00	126			(Unknown)
1	2	Opening	Slots	9.00	11.00	56		1	SL: 0mm; A: 0mm
1	2	Opening	Slots	13.00	16.00	56		2	SL: 0mm; A: 0mm
1	2	Opening	Slots	18.00	21.00	56		3	SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	7.80	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.10	10.10	0.00	Consolidated			0.70			(Unknown)
15.50	15.50	0.00	Consolidated			1.60			(Unknown)
18.50	18.50	0.00	Consolidated			2.20			(Unknown)
21.00	21.00	0.00	Consolidated	3.00		2.30			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.50	2.50	Clay Orange Sandy	Clay	
2.50	9.00	6.50	Sandstone Orange Grey	Sandstone	
9.00	16.00	7.00	Sandstone Orange Fine-coarse Water Supply	Sandstone	
16.00	21.00	5.00	Sandstone Grey Fine-medium Water Supply	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063644 ***

NSW OFFICE OF WATER

Work Summary

GW063645

Converted From HYDSYS

Licence :10BL138447

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 24.00 m
Completion Date :01-May-1988 Drilled Depth : 24.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	246
	Licensed :CAMDEN	KEMBLA	246
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 41.10 m (A.H.D.)		Northing :6182288	Latitude (S) :34° 28' 49"
Elevation Source :R.L. at Surface		Eastings :293636	Longitude (E) :150° 45' 10"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	10.60	153			(Unknown)
1	1	Casing	Threaded Steel	0.00	11.50	107			(Unknown)
1	2	Casing	P.V.C.	0.00	24.00	56			Seated on Bottom
1	1	Casing	Drilled	10.60	24.00	126			(Unknown)
1	2	Opening	Slots	10.50	14.00	56		1	SL: 0mm; A: 0mm
1	2	Opening	Slots	16.00	19.00	56		2	SL: 0mm; A: 0mm
1	2	Opening	Slots	21.00	24.00	56		3	SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	10.60	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.50	10.50	0.00	Consolidated			0.00			(Unknown)
18.40	18.40	0.00	Consolidated			0.00			(Unknown)
22.00	22.00	0.00	Consolidated			9.20			(Unknown)
24.00	24.00	0.00	Consolidated			7.50			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	5.75	5.75	Sand Gravel	Sand	
0.00	5.75	5.75	Clay Orange Sandy	Clay	
5.75	10.00	4.25	Sand Orange Fine Some Gravel	Sand	
10.00	12.50	2.50	Sandstone Fine Very Weathered	Sandstone	
12.50	24.00	11.50	Sandstone Grey Fine Water Supply	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063645 ***

NSW OFFICE OF WATER

Work Summary

GW063646

Converted From HYDSYS

Licence :10BL138448

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 16.00 m
Completion Date :01-May-1988 Drilled Depth : 16.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	46
	Licensed :CAMDEN	KEMBLA	239
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 27.70 m (A.H.D.)		Northing :6182062	Latitude (S) :34° 28' 57"
Elevation Source :R.L. at Surface		Eastng :294585	Longitude (E) :150° 45' 47"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	2.40	153			(Unknown)
1	1	Casing	Threaded Steel	0.00	3.30	107			(Unknown)
1	2	Casing	P.V.C.	0.00	16.00	56			Seated on Bottom
1	1	Casing	Drilled	2.40	16.00	126			(Unknown)
1	2	Opening	Slots	3.00	6.00	56		1	SL: 0mm; A: 0mm
1	2	Opening	Slots	8.00	11.00	56		2	SL: 0mm; A: 0mm
1	2	Opening	Slots	13.00	16.00	56		3	SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	2.40	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.00	7.00	0.00	Consolidated			0.40			(Unknown)
9.50	9.50	0.00	Consolidated			0.40			(Unknown)
12.50	12.50	0.00	Consolidated			0.20			(Unknown)
16.00	16.00	0.00	Consolidated			0.30			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.50	1.50	Clay Sandy Some Gravel	Clay	
1.50	4.00	2.50	Sandstone Fine Very Weathered	Sandstone	
4.00	16.00	12.00	Gravel Reddish Coarse Conglomerated, Matrix Grey Fine, Sandstone Grey Fine Water Supply	Gravel	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063646 ***

NSW OFFICE OF WATER

Work Summary

GW063647

Converted From HYDSYS

Licence :10BL138449

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 15.50 m
Completion Date :01-May-1988 Drilled Depth : 15.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	46
	Licensed :CAMDEN	KEMBLA	46
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 22.60 m (A.H.D.)		Northing :6182283	Latitude (S) :34° 28' 50"
Elevation Source :R.L. at Surface		Eastng :294810	Longitude (E) :150° 45' 56"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	1.50	153			(Unknown)
1	1	Casing	P.V.C.	0.00	3.10	107			(Unknown)
1	2	Casing	P.V.C.	0.00	15.50	56			Seated on Bottom
1	1	Casing	Drilled	1.50	15.50	126			(Unknown)
1	2	Opening	Slots	2.50	5.50	56		1	Plastic; SL: 0mm; A: 0mm
1	2	Opening	Slots	7.50	10.50	56		2	Plastic; SL: 0mm; A: 0mm
1	2	Opening	Slots	12.50	15.50	56		3	Plastic; SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	1.50	153			(Unknown)
1	1	Annulus	(Unknown)	1.50	15.50	126			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.70	10.70	0.00	Consolidated			0.40			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.50	1.50	Clay Light Brown Silty Sandy	Clay	
1.50	15.50	14.00	Sandstone Grey Fine Some Weathered Water Supply	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063647 ***

NSW OFFICE OF WATER

Work Summary

GW063648

Converted From HYDSYS

Licence :10BL138450

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 19.00 m
Completion Date :01-Jun-1988 Drilled Depth : 19.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	46
	Licensed :CAMDEN	KEMBLA	46
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 27.20 m (A.H.D.)		Northing :6182397	Latitude (S) :34° 28' 46"
Elevation Source :R.L. at Surface		Easting :294399	Longitude (E) :150° 45' 40"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	12.10	153			(Unknown)
1	1	Casing	P.V.C.	0.00	13.90	107			(Unknown)
1	2	Casing	P.V.C.	0.00	19.00	56			Seated on Bottom
1	1	Casing	Drilled	12.10	19.00	126			(Unknown)
1	2	Opening	Slots	12.00	19.00	56	1		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	12.10	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
0.40	0.40	0.00	Unconsolidated			0.00			(Unknown)
17.90	17.90	0.00	Consolidated	0.90		0.80			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	8.00	8.00	Sand Medium-coarse Very Loose, Shell Fragments White	Sand	
8.00	12.00	4.00	Clay Black Orange Grey Very Plastic, Some Sand	Clay	
12.00	14.00	2.00	Sandstone Fine Very Weathered	Sandstone	
14.00	19.00	5.00	Sandstone Grey Fine Water Supply	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063648 ***

NSW OFFICE OF WATER

Work Summary

GW063649

Converted From HYDSYS

Licence :10BL138451

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 21.50 m
Completion Date :01-Jun-1988 Drilled Depth : 21.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	239
	Licensed :CAMDEN	KEMBLA	239
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 28.90 m (A.H.D.)		Northing :6181408	Latitude (S) :34° 29' 18"
Elevation Source :R.L. at Surface		Easting :294293	Longitude (E) :150° 45' 35"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	11.50	153			(Unknown)
1	1	Casing	P.V.C.	0.00	12.50	107			(Unknown)
1	2	Casing	P.V.C.	0.00	21.50	56			Seated on Bottom
1	1	Casing	Drilled	11.50	21.50	126			(Unknown)
1	2	Opening	Slots	12.50	15.50	56	1		SL: 0mm; A: 0mm
1	2	Opening	Slots	18.50	21.50	56	2		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	11.50	153			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.50	2.50	Clay Light Brown Sandy	Clay	
2.50	4.50	2.00	Sand Light Brown Gravel Some Fine	Sand	
2.50	4.50	2.00	Gravel Fine-coarse Sub Angular-sub Rounde	Gravel	
4.50	8.50	4.00	Clay Very Plastic	Clay	
4.50	8.50	4.00	Some Sand		
8.50	10.40	1.90	Sandstone Fine Very Weathered	Sandstone	
10.40	21.50	11.10	Sandstone Grey Fine Some Coarse	Sandstone	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063649 ***

NSW OFFICE OF WATER

Work Summary

GW063650

Converted From HYDSYS

Licence :10BL138452

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 18.50 m
Completion Date :01-Aug-1988 Drilled Depth : 18.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	50
	Licensed :CAMDEN	KEMBLA	50
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 44.70 m (A.H.D.)		Northing :6182131	Latitude (S) :34° 28' 54"
Elevation Source :R.L. at Surface		Easting :293537	Longitude (E) :150° 45' 6"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	3.80	175			(Unknown)
1	1	Casing	P.V.C.	0.00	4.50	107			(Unknown)
1	2	Casing	P.V.C.	0.00	18.50	56			Seated on Bottom
1	1	Casing	Drilled	3.80	18.50	140			(Unknown)
1	2	Opening	Slots	5.50	8.50	56	1		SL: 0mm; A: 0mm
1	2	Opening	Slots	10.50	13.50	56	2		SL: 0mm; A: 0mm
1	2	Opening	Slots	15.50	18.50	56	3		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	3.80	175			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
17.00	17.00	0.00	Consolidated			0.80			(Unknown)
18.50	18.50	0.00	(Unknown)	9.80		0.60			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.00	2.00	Clay Sandy Plastic	Clay	
0.00	2.00	2.00	Sand Light Brown Fine	Sand	
2.00	3.00	1.00	Sand Light Brown Fine	Sand	
3.00	6.50	3.50	Sandstone Yellow Fine Very Weathered	Sandstone	
3.00	6.50	3.50	Claystone Siltstone Bands	Claystone	
6.50	15.00	8.50	Sandstone Purple Grey Fine	Sandstone	
15.00	18.50	3.50	Sandstone Medium-coarse Water Supply	Sandstone	
15.00	18.50	3.50	Gravel Reddish Grey Sub Rounded Conglomeratic	Gravel	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063650 ***

NSW OFFICE OF WATER

Work Summary

GW063651

Converted From HYDSYS

Licence :10BL138453

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 20.00 m
Completion Date :01-Sep-1988 Drilled Depth : 20.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
50
10 33650

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation : 33.80 m (A.H.D.)
Elevation Source :R.L. at Surface

Northing :6181958
Easting :294077

Latitude (S) :34° 29' 0"
Longitude (E) :150° 45' 27"

GS Map :0075D2

MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	3.00	175			(Unknown)
1	1	Casing	P.V.C.	0.00	4.00	107			(Unknown)
1	2	Casing	P.V.C.	0.00	20.00	56			Seated on Bottom
1	1	Casing	Drilled	3.00	20.00	140			(Unknown)
1	2	Opening	Slots	14.00	20.00	56	1		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	3.00	175			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
16.50	16.50	0.00	Consolidated			0.20			(Unknown)
19.00	19.00	0.00	Consolidated	8.40		0.40			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	Clay Dark Brown Sandy	Clay	
0.50	1.10	0.60	Sand Fine	Sand	
1.10	3.50	2.40	Sandstone Fine-medium	Sandstone	
1.10	3.50	2.40	Gravel Red Orange Very Weathered Conglomeratic	Gravel	
3.50	5.50	2.00	Sandstone Orange Grey Fine Slightly Weathered	Sandstone	
5.50	8.00	2.50	Sandstone Orange Grey Fine-medium Slightly Weathered	Sandstone	
8.00	10.50	2.50	Sandstone Grey Medium Some Fine	Sandstone	
10.50	14.00	3.50	Sandstone	Sandstone	
10.50	14.00	3.50	Siltstone Slightly Weathered	Siltstone	
14.00	20.00	6.00	Sandstone Grey Fine Water Supply	Sandstone	
14.00	20.00	6.00	Sand Medium	Sand	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063651 ***

NSW OFFICE OF WATER

Work Summary

GW063652

Converted From HYDSYS

Licence :10BL138454

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 20.00 m
Completion Date :01-Sep-1988 Drilled Depth : 20.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 239 11 33650
Region :10 - SYDNEY SOUTH COAST River Basin :214 - WOLLONGONG COAST Area / District :	CMA Map :9029-2S Grid Zone :56/1	WOLLONGONG Scale :1:25,000	
Elevation : 31.60 m (A.H.D.) Elevation Source :R.L. at Surface	Northing :6181527 Easting :294112	Latitude (S) :34° 29' 14" Longitude (E) :150° 45' 28"	
GS Map :0075D2 MGA Zone :56	Coordinate Source :GD.,ACC.MAP		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	8.00	175			(Unknown)
1	1	Casing	P.V.C.	0.00	8.50	107			(Unknown)
1	2	Casing	P.V.C.	0.00	20.00	56			Seated on Bottom
1	1	Casing	Drilled	8.00	20.00	140			(Unknown)
1	2	Opening	Slots	12.00	15.00	56	1		SL: 0mm; A: 0mm
1	2	Opening	Slots	17.00	20.00	56	2		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	8.00	175			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
8.50	8.50	0.00	Consolidated			0.00			(Unknown)
10.50	10.50	0.00	Consolidated			2.30			(Unknown)
12.00	12.00	0.00	Consolidated			1.90			(Unknown)
13.50	13.50	0.00	Consolidated			2.00			(Unknown)
14.50	14.50	0.00	Consolidated			1.80			(Unknown)
15.60	15.60	0.00	Consolidated			1.60			(Unknown)
17.00	17.00	0.00	Consolidated			1.50			(Unknown)
18.00	18.00	0.00	Consolidated			1.40			(Unknown)
20.00	20.00	0.00	Consolidated	5.00		1.50			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	Gravel Sandy Fine-coarse	Gravel	
0.00	1.00	1.00	Some Clay		
1.00	5.00	4.00	Clay Orange Grey Sandy Very Plastic	Clay	
5.00	8.00	3.00	Clay Light Brown Sandy Some Gravel	Clay	
8.00	9.50	1.50	Sandstone Grey Fine Very Weathered	Sandstone	
9.50	14.00	4.50	Sandstone Grey Fine Water Supply	Sandstone	
14.00	20.00	6.00	Sandstone Grey Medium-coarse Water Supply	Sandstone	
14.00	20.00	6.00	Sand Orange Coarse	Sand	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063652 ***

NSW OFFICE OF WATER

Work Summary

GW063653

Converted From HYDSYS

Licence :10BL138455

Work Type :Bore
Work Status :Test Hole
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
G/WATER XPLORE

Commenced Date : Final Depth : 20.50 m
Completion Date :01-Sep-1988 Drilled Depth : 20.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - GUJARAT
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : (Unknown)
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	46
	Licensed :CAMDEN	KEMBLA	14 255284
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-2S	WOLLONGONG
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 21.10 m (A.H.D.)		Northing :6181978	Latitude (S) :34° 29' 0"
Elevation Source :R.L. at Surface		Easting :294970	Longitude (E) :150° 46' 2"
GS Map :0075D2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Drilled	0.00	8.50	175			(Unknown)
1	1	Casing	P.V.C.	0.00	9.40	107			(Unknown)
1	2	Casing	P.V.C.	0.00	20.50	56			Seated on Bottom
1	1	Casing	Drilled	8.50	20.50	140			(Unknown)
1	2	Opening	Slots	9.00	12.00	56	1		SL: 0mm; A: 0mm
1	2	Opening	Slots	14.50	20.50	56	2		SL: 0mm; A: 0mm
1	1	Annulus	(Unknown)	0.00	8.50	175			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
8.50	8.50	0.00	Unconsolidated			0.60			(Unknown)
10.00	10.00	0.00	Consolidated			0.00			(Unknown)
14.50	14.50	0.00	Consolidated			0.50			(Unknown)
15.50	15.50	0.00	(Unknown)			0.70			(Unknown)
16.50	16.50	0.00	(Unknown)			0.80			(Unknown)
17.50	17.50	0.00	(Unknown)			0.60			(Unknown)
19.10	19.10	0.00	(Unknown)			0.50			(Unknown)
20.00	20.00	0.00	(Unknown)	5.00		0.70			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.70	2.70	Clay Black Orange Grey Sandy Plastic	Clay	
0.00	2.70	2.70	Sand Fine	Sand	
2.70	8.50	5.80	Clay Grey Very Plastic Water Supply	Clay	
2.70	8.50	5.80	Sand Gravel	Sand	
8.50	9.50	1.00	Sand Fine-medium Some Coarse Gravel	Sand	
9.50	10.50	1.00	Sandstone Fine Slightly Weathered	Sandstone	
10.50	14.50	4.00	Sandstone Grey Fine Water Supply	Sandstone	
14.50	20.50	6.00	Sandstone	Sandstone	
14.50	20.50	6.00	Gravel Red Conglomeratic Matrix	Gravel	

Remarks

FULL DATA & OTHER REPORTS ON EIS FILE 84/16122 REQD PART OF AIS IND WASTE PROJECT AT WONGAWILLI

*** End of GW063653 ***

NSW OFFICE OF WATER

Work Summary

GW064358

Converted From HYDSYS

Licence :10BL136638		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore		TEST BORE	G/WATER XPLORE
Work Status :Test Hole			
Construct. Method :Rotary			
Owner Type :Private			
Commenced Date :		Final Depth :	36.60 m
Completion Date :01-Sep-1987		Drilled Depth :	36.60 m
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - N/A		Standing Water Level :	
GWMA : -		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	KEMBLA	248
	Licensed :CAMDEN	KEMBLA	248
Region :10 - SYDNEY SOUTH COAST		CMA Map :9029-3S	AVON RIVER
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6180342	Latitude (S) :34° 29' 52"
Elevation Source :(Unknown)		Easting :293475	Longitude (E) :150° 45' 2"
GS Map :0075C2	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers							
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm) Interval Details
1	1	Casing	(Unknown)	0.00	12.00	165	Seated on Bottom

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
30.00	31.00	1.00	Fractured			3.80			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	9.00	9.00	Topsoil Clay	Topsoil	
9.00	36.57	27.57	Shale Sandy Water Supply	Shale	

Remarks

*** End of GW064358 ***

NSW OFFICE OF WATER

Work Summary

GW064359

Converted From HYDSYS

Licence :10BL136639		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore		TEST BORE	G/WATER XPLORE
Work Status :Test Hole			
Construct. Method :Rotary			
Owner Type :Private			
Commenced Date :	Final Depth :	79.20 m	
Completion Date :01-Sep-1987	Drilled Depth :	79.00 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - N/A		Standing Water Level :	
GWMA : -		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	KEMBLA	248
		Licensed :CAMDEN	KEMBLA	59
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N		ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1		Scale :1:25,000
Area / District :				
Elevation :		Northing :6180187		Latitude (S) :34° 29' 57"
Elevation Source :(Unknown)		Easting :293427		Longitude (E) :150° 45' 0"
GS Map :0075C3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details	
1	1	Casing (Unknown)	0.00	12.00	165			Seated on Bottom	

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
70.00	72.00	2.00	Fractured	3.00		2.53			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	9.00	9.00	Topsoil Clay	Topsoil	
9.00	79.00	70.00	Shale Sandy Water Supply	Shale	

Remarks

*** End of GW064359 ***

NSW OFFICE OF WATER

Work Summary

GW067383

Converted From HYDSYS

Licence :		Authorised Purpose(s)	Intended Purpose(s)
Work Type : Bore open thru rock			DOMESTIC
Work Status : (Unknown)			STOCK
Construct. Method : Rotary Air			
Owner Type : Private			
Commenced Date :	Final Depth :	42.00 m	
Completion Date : 22-Aug-1989	Drilled Depth :	42.00 m	
Contractor Name :			
Driller : 1575	WINDLEY, Phillip Arthur		
Assistant Driller's Name :			
Property :		Standing Water Level :	
GWMA : -		Salinity :	Salty
GW Zone : -		Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A : CAMDEN	CALDERWOOD	L1 DP739974
Licensed :			
Region : 10 - SYDNEY SOUTH COAST		CMA Map :	
River Basin : 214 - WOLLONGONG COAST		Grid Zone :	Scale :
Area / District :			
Elevation :	0.00	Northing : 6173822	Latitude (S) : 34° 33' 22"
Elevation Source :		Easting : 291257	Longitude (E) : 150° 43' 30"
GS Map :	MGA Zone : 56	Coordinate Source : GD.,ACC.GIS	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	0.00	6.00	180			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
18.00	42.00	24.00	Fractured	15.00		1.80			Salty

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.00	3.00		Soil	
3.00	18.00	15.00		Basalt	
18.00	42.00	24.00			

Remarks

*** End of GW067383 ***

NSW OFFICE OF WATER

Work Summary

GW068119

Licence :10BL145390

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Rotary
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
FARMING
STOCK

Intended Purpose(s)
DOMESTIC
FARMING
STOCK

Commenced Date : Final Depth : 19.00 m
Completion Date :19-Feb-1992 Drilled Depth : 19.00 m

Contractor Name :
Driller :1603 RITCHIE, R
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield : 3.50 L/s

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish KEMBLA KEMBLA	Portion/Lot DP 106//840320 PT297
Region :10 - SYDNEY SOUTH COAST		CMA Map :	
River Basin :		Grid Zone :	Scale :
Area / District :			
Elevation :		Northing :6186185	Latitude (S) :34° 26' 45"
Elevation Source :		Easting :296862	Longitude (E) :150° 47' 20"
GS Map :	MGA Zone :56	Coordinate Source :	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	19.00	215			Rotary Air
1	1	Casing	Steel	-0.50	0.50	162	157.2		
1	1	Casing	P.V.C.	-0.50	19.00	162			C: 0-1m; Seated on Bottom
1	1	Opening	Slots	12.00	19.00	162		1	Slotted In Hole; SL: 300mm; A: 3mm
1		Annulus	Waterworn/Rounded	2.00	19.00				Graded; GS: 5-10mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
15.00	16.00	1.00				3.50	16.00		

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	TOP SOIL	Topsoil	
0.50	2.00	1.50	CLAY & SOIL	Clay	
2.00	6.00	4.00	CLAY	Clay	
6.00	9.00	3.00	SANDSTONE	Sandstone	
9.00	12.00	3.00	VERY WEATHER SANDSTONE	Sandstone	
12.00	19.00	7.00	VERY WEATHER SANDSTONE	Sandstone	

Remarks

*** End of GW068119 ***

NSW OFFICE OF WATER

Work Summary

GW071002

Converted From HYDSYS

Licence :		Authorised Purpose(s)	Intended Purpose(s)
Work Type : Bore			DOMESTIC
Work Status : Supply Obtained			STOCK
Construct. Method : (Unknown)			
Owner Type : (Unknown)			
Commenced Date :	Final Depth :	16.00 m	
Completion Date :	Drilled Depth :	16.00 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property :		Standing Water Level :	6.00 m
GWMA : -		Salinity :	
GW Zone : -		Yield :	0.35 L/s

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A : CAMDEN	CALDERWOOD	103//879381
	Licensed :		
Region : 10 - SYDNEY SOUTH COAST		CMA Map : 9028-4N	ROBERTSON
River Basin : 214 - WOLLONGONG COAST		Grid Zone : 56/1	Scale : 1:25,000
Area / District :			
Elevation : 55.00 m (A.H.D.)		Northing : 6177529	Latitude (S) : 34° 31' 23"
Elevation Source : Est. Contour 8-15M.		Easting : 293104	Longitude (E) : 150° 44' 45"
GS Map : 0075C3	MGA Zone : 56	Coordinate Source :	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	15.00	160			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
15.00	16.00	1.00	Fractured	6.00		0.35			Good

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Updated details as per existing data.

*** End of GW071002 ***

NSW OFFICE OF WATER

Work Summary

GW072410

Licence :10BL156155

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 39.00 m
Completion Date :07-Nov-1994 Drilled Depth : 39.00 m

Contractor Name :Windley's Water Wells Pty Ltd
Driller :1628 SMITH, Glen Wayne

Assistant Driller's Name :

Property : - WESTERLIES
GWMA : -
GW Zone : -

Standing Water Level : 18.00 m
Salinity :
Yield : 1.00 L/s

Site Details

Site Chosen By

Diviner Driller

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
LOT1 DP317318
1 317318

Region :10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6180969
Easting :293925

Latitude (S) :34° 29' 32"
Longitude (E) :150° 45' 20"

GS Map : MGA Zone :56

Coordinate Source :Map Interpretation

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	12.00	180			Rotary Air
1		Hole	Hole	12.00	39.00	150			Rotary Air
1	1	Casing	P.V.C.	-1.00	12.00	155			Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
34.00	34.10	0.10		18.00		1.00	36.00	1.00	Fair

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	SOIL		
0.50	39.00	38.50	SILTSTONE GREY		

Remarks

*** End of GW072410 ***

NSW OFFICE OF WATER

Work Summary

GW072794

Converted From HYDSYS

Licence :		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore open thru rock			DOMESTIC
Work Status :(Unknown)			STOCK
Construct. Method :Rotary Air			
Owner Type :Private			
Commenced Date :	Final Depth :	30.00 m	
Completion Date :06-Feb-1995	Drilled Depth :	30.00 m	
Contractor Name :			
Driller :1575		WINDLEY, Phillip Arthur	
Assistant Driller's Name :			
Property :		Standing Water Level :	
GWMA : -		Salinity :	Salty
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A : CAMDEN	JAMBEROO	L6 DP70360
Licensed :				
Region : 10 - SYDNEY SOUTH COAST			CMA Map :	
River Basin : 214 - WOLLONGONG COAST			Grid Zone :	Scale :
Area / District :				
Elevation :	0.00	Northing : 6172563		Latitude (S) : 34° 34' 7"
Elevation Source :		Easting : 296754		Longitude (E) : 150° 47' 4"
GS Map :	MGA Zone : 56	Coordinate Source : GD.,ACC.GIS		

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	7.00	160			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
20.00	20.50	0.50	Fractured	6.00		0.30			S.Salty

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00			
1.00	7.00	6.00	Clay	Clay	
7.00	30.00	23.00	Shale	Shale	

Remarks

*** End of GW072794 ***

NSW OFFICE OF WATER

Work Summary

GW072936

Converted From HYDSYS

Licence :		Authorised Purpose(s)	Intended Purpose(s)
Work Type : Bore			DOMESTIC
Work Status : (Unknown)			STOCK
Construct. Method :			
Owner Type : Private			
Commenced Date :	Final Depth :	60.00 m	
Completion Date : 01-Jan-1992	Drilled Depth :	60.00 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property :		Standing Water Level :	
GWMA : -		Salinity :	
GW Zone : -		Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A : CAMDEN	CALDERWOOD	L201 DP803486
	Licensed :		
Region : 10 - SYDNEY SOUTH COAST		CMA Map : 9028-4N	ROBERTSON
River Basin : 214 - WOLLONGONG COAST		Grid Zone : 56/1	Scale : 1:25,000
Area / District :			
Elevation :	0.00	Northing : 6175492	Latitude (S) : 34° 32' 29"
Elevation Source :		Easting : 293040	Longitude (E) : 150° 44' 41"
GS Map :	MGA Zone : 56	Coordinate Source : GD.,ACC.GIS	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
(No Water Bearing Zone Details Found)									

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	40.00	40.00		Shale	
40.00	42.00	2.00		Sandstone	
42.00	60.00	18.00		Shale	

Remarks

FORM AG ABANDONED

*** End of GW072936 ***

NSW OFFICE OF WATER

Work Summary

GW075139 - Warragamba 1A - SCA Warragamba Pipeline

Licence :10WM000003

Work Type :Bore
 Work Status :Supply Obtained
 Construct. Method :Down Hole Hammer
 Owner Type :Other Govt

Authorised Purpose(s)
 TOWN WATER SUPPLY

Intended Purpose(s)
 TEST BORE
 TOWN WATER SUPPLY

Commenced Date : Final Depth : 193.00 m
 Completion Date :16-Jun-2006 Drilled Depth : 193.00 m

Contractor Name :Highland Drilling Pty Ltd
 Driller :1913 PALK, Ian

Assistant Driller's Name :

Property : - SYDNEY CATCHMENT
 GWMA : -
 GW Zone : -

Standing Water Level : 15.00 m
 Salinity :
 Yield : 4.00 L/s Cumulative

Site Details

Site Chosen By
 Hydrogeologist

County
 Form A :CAMDEN
 Licensed :

Parish
 KEMBLA

Portion/Lot DP
 561//823270

Region :10 - SYDNEY SOUTH COAST
 River Basin :
 Area / District :

CMA Map :9029-2S
 Grid Zone :56/1

WOLLONGONG
 Scale :1:25,000

Elevation :
 Elevation Source :

Northing :6184157
 Easting :298696

Latitude (S) :34° 27' 52"
 Longitude (E) :150° 48' 30"

GS Map : MGA Zone :56

Coordinate Source :GPS - Global Positioning System

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	15.00	254			Down Hole Hammer
1		Hole	Hole	15.00	193.00	200			Down Hole Hammer
1	1	Casing	Steel	0.00	15.00	219			Welded; Driven into Hole; Open End

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
15.00	16.00	1.00		15.00		2.50		0.50	
66.00	67.00	1.00				-1.50		0.50	
93.00	94.00	1.00				5.66		0.50	
102.00	103.00	1.00				3.34		0.50	
126.00	127.00	1.00				-1.70		0.50	
156.00	157.00	1.00				-2.59		0.50	
162.00	163.00	1.00				-0.71		0.50	
192.00	193.00	1.00				-1.00		3.00	

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	14.00	14.00	Claystone	Claystone	
14.00	61.00	47.00	Siltstone	Siltstone	
61.00	128.00	67.00	Sandstone	Sandstone	
128.00	145.00	17.00	Siltstone	Siltstone	
145.00	162.00	17.00	Sandstone	Sandstone	
162.00	193.00	31.00	Siltstone	Siltstone	

Remarks

Form A Remarks:
 Nat Carling, 9-Oct-2007.

*** End of GW075139 ***

NSW OFFICE OF WATER

Work Summary

GW100499

Licence :10BL154387			
Work Type :Bore		Authorised Purpose(s)	Intended Purpose(s)
Work Status :Supply Obtained		INDUSTRIAL	IRRIGATION
Construct. Method :			
Owner Type :Private			
Commenced Date :		Final Depth :	12.00 m
Completion Date :01-Jan-1950		Drilled Depth :	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - TAVERNESE		Standing Water Level :	0.50 m
GWMA : -		Salinity :	Good
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	CALDERWOOD	LT 2 DP 568285
		Licensed :CAMDEN	CALDERWOOD	2 568285
Region :10 - SYDNEY SOUTH COAST		CMA Map :		
River Basin :		Grid Zone :		Scale :
Area / District :				
Elevation :		Northing :6174646	Latitude (S) :34° 32' 54"	
Elevation Source :		Easting :289387	Longitude (E) :150° 42' 17"	
GS Map :		MGA Zone :56	Coordinate Source :Map Interpretation	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Steel	0.00	12.00	100			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
(No Water Bearing Zone Details Found)									

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Form A Remarks:

VERY OLD BORE - ELECTRIC PUMP. FILLS 2000LITRE TANK. PUMP AUTOMATICALLY CUTS OUT WHEN TANK IS FULL. Data only from AG form only.

*** End of GW100499 ***

NSW OFFICE OF WATER

Work Summary

GW101394

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 15.70 m
Completion Date :18-May-1988 Drilled Depth : 15.70 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 5.48 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186186 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	15.70	153			Rotary Air
1	1	Casing	P.V.C.	0.00	15.70	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	10.70	15.70	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.50	2.50	COLLUVIUM.Sandy clay.brown to reddish brown.		
2.50	6.50	4.00	RESIDUAL SOIL.Sand,gravelly,fine brown.		
6.50	8.75	2.25	SANDSTONE BEDROCK.Fine, completely weathered to highly weathered,brown		
8.75	15.70	6.95	SANDSTONE BEDROCK.Fine grained grey.		

Remarks

Form A Remarks:
BOREHOLE No. BH 1

WONGAWILLI UNLOADER POLLUTION STUDY

CO-ORDS 277511.59 E
1182814.22 N

BOREHOLE CAPPED
NOTES. 1 WRZ DENOTES ZONE OF WEATHERING WITHIN RELATIVELY UNWEATHERED BEDROCK. 2.GROUT SEAL POURED AROUND OUTSIDE OF PVC. 3. FALLING HEAD TEST SECTION 1.0 to 15.7m

*** End of GW101394 ***

NSW OFFICE OF WATER

Work Summary

GW101395

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 21.50 m
Completion Date :19-May-1988 Drilled Depth : 21.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 6.09 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	21.50	153			Rotary Air
1	1	Casing	P.V.C.	0.00	21.50	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	10.50	14.50	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	16.50	21.50	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	4.50	4.50	FILL.Sand,gravely with Clay,silty to gravely.		
4.50	11.50	7.00	RESIDUAL HIGHLY WEATHERED SANDSTONE.Sand,gravely,sand fine grain,gravel,gravel fine to coarse,orange brown.		
11.50	21.50	10.00	SANDSTONE BEDROCK.Fine grained grey unweathered.		

Remarks

Form A Remarks:
BOREHOLE No. BH 2

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY

CO-ORDS 277291.71 E
1183016.12 N

BOREHOLE CAPPED NOTE. Falling Head permeability test sections between 6.5-11.5m & 10.5016m.

*** End of GW101395 ***

NSW OFFICE OF WATER

Work Summary

GW101396

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 21.50 m
Completion Date :23-May-1988 Drilled Depth : 21.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 4.58 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :
Elevation :
Elevation Source :
GS Map : MGA Zone :56
Coordinate Source :
CMA Map :
Grid Zone :
Scale :
Northing :6186185
Easting :296862
Latitude (S) :34° 26' 45"
Longitude (E) :150° 47' 20"

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	12.00	153			Rotary Air
1		Hole	Hole	0.00	21.50	126			Rotary Air
1	1	Casing	P.V.C.	0.00	12.00	107			
1	1	Casing	P.V.C.	0.00	21.50	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	12.00	21.50	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	10.50	10.50	COLLUVIUM.Clay,sandy,brown some gravel		
10.50	12.00	1.50	POSSIBLE OLD STREAMBED.Sand,gravelly,fine to coarse gravel,brown and rounded to sub_round.		
12.00	13.00	1.00	SANDSTONE BEDROCK. Fine grained,brown weathered.		
13.00	21.50	8.50	SANDSTONE BEDROCK. Fine grained,greys,unweathered, with some conglomerates.		

Remarks

Form A Remarks:
BOREHOLE No. BH 3

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY.

CO-ORDS 277413.21 E
1183137.00 N

BOREHOLE CAPPED
NOTES. TEMPORARY STEEL CASING PLACED TO 12.0m

*** End of GW101396 ***

NSW OFFICE OF WATER

Work Summary

GW101397

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 21.00 m
Completion Date :24-May-1988 Drilled Depth : 16.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 2.95 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	153			Rotary Air
1		Hole	Hole	8.00	21.00	126			Rotary Air
1	1	Casing	P.V.C.	0.00	8.00	107			
1	1	Casing	P.V.C.	0.00	21.00	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	9.00	11.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	13.00	16.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	18.00	21.00	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.50	2.50	COLLUVIUM.Clay,sandy,orange-brown.		
2.50	9.00	6.50	RESIDUAL TO HIGHLY WEATHERED SANDSTONE.Sand,silty,fine to coarse sand, grey to orange brown.		
9.00	16.00	7.00	SANDSTONE BEDROCK.Fine to coarse grained, orange-brown.		
16.00	21.00	5.00	SANDSTONE BEDROCK. Fine to medium grained grey, unweathered.		

Remarks

Form A Remarks:
BOREHOLE No. BH 4

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY

CO-ORDS 277606.52 E
1182997.94 N

BOREHOLE CAPPED
NOTE TEMPORARY STEEL CASING PLACED TO 7.0m

*** End of GW101397 ***

NSW OFFICE OF WATER

Work Summary

GW101398

Licence :10BL156498

Work Type :
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date :31-May-1988 Final Depth : 15.50 m
Completion Date :31-May-1988 Drilled Depth : 15.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 3.18 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186186 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	2.00	153			Rotary Air
1		Hole	Hole	2.00	15.50	126			Rotary Air
1	1	Casing	(Unknown)	0.00	2.00	107			
1	1	Casing	(Unknown)	0.00	15.50	56			
1	1	Opening	Slots - Horizontal	2.50	5.50	56			PVC
1	1	Opening	Slots - Horizontal	7.50	10.50	56			PVC
1	1	Opening	Slots - Horizontal	12.50	15.50	56			PVC

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.50	1.50	COLLUVIUM.Clay,silty,sandy dark brown		
1.50	4.50	3.00	SANDSTONE BEDROCK		
4.50	15.50	11.00	SANDSTONE BEDROCK.Finegrained,greys fresh		

Remarks

NOTES. 1. WRZ DENOTES ZONE OF WEATHERING WITHIN UNWEATHERED BEDROCK. NOTE 2. FALLING HEAD TEST SECTION BETWEEN 3.0-15.5m. BOREHOLE No. BH 7 PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY. CO-ORDS 278388.35 E/1182994.54 N BOREHOLE CAPPED

*** End of GW101398 ***

NSW OFFICE OF WATER

Work Summary

GW101399

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 24.00 m
Completion Date :27-May-1988 Drilled Depth : 24.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 5.76 m
Salinity :
Yield :

Site Details

Site Chosen By County Form A :CAMDEN Parish KEMBLA Portion/Lot DP 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186186 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	11.00	153			Rotary Air
1		Hole	Hole	11.00	24.00	126			Rotary Air
1	1	Casing	P.V.C.	0.00	11.00	107			
1	1	Casing	P.V.C.	0.00	24.00	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	10.50	14.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	16.00	19.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	21.00	24.00	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	5.75	5.75	FILL. Sand,gravelly with Clay, sandy, orange-brown with organic debris.		
5.75	10.00	4.25	RESIDUAL SOIL Sand, fine grained with gravel, orange brown.		
10.00	12.50	2.50	SANDSTONE BEDROCK.Fine grained,brown highly weathered.		
12.50	24.00	11.50	SANDSTONE BEDROCK.Fine grained grey unweathered.		

Remarks

Form A Remarks:
BOREHOLE No. BH 5

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY

CO-ORDS 277306.53 E
1183015.13 N
BOREHOLE CAPPED

NOTE. PUMP TEST CARRIED OUT IN BH 5

*** End of GW101399 ***

NSW OFFICE OF WATER

Work Summary

GW101400

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 16.00 m
Completion Date :30-May-1988 Drilled Depth : 16.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 6.88 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	3.00	153			Rotary Air
1		Hole	Hole	3.00	16.00	126			Rotary Air
1	1	Casing	P.V.C.	0.00	3.00	107			
1	1	Casing	P.V.C.	0.00	16.00	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	3.00	6.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	8.00	11.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	13.00	16.00	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.50	1.50	COLLUVIUM.Clay, sandy,brown some gravel.		
1.50	4.00	2.50	SANDSTONE BEDROCK.Fine grained,brown highly weathered.		
4.00	16.00	12.00	SANDSTONE BEDROCK.Fine grained,grey. Some coarse,redish-brown gravel conglomerates in fine grey matrix.		

Remarks

Form A Remarks:
BOREHOLE No. BH 6

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY.

CO-ORDS 278098.03 E
1182791.85 N

BOREHOLE CAPPED
NOTES. 1.WRZ DENOTES ZONE OF WEATHERING WITHIN RELATIVELY UNWEATHERED BEDROCK
2. FALLING HEAD PERMEABILITY TEST SECTION BETWEEN 2.0-12.0m.

*** End of GW101400 ***

NSW OFFICE OF WATER

Work Summary

GW101401

Licence :10BL156498

Work Type :
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)

Commenced Date :06-Jun-1988 Final Depth : 21.50 m
Completion Date :06-Jun-1988 Drilled Depth : 21.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	11.00	153			Rotary Air
1		Hole	Hole	11.00	21.50	126			Rotary Air
1	1	Casing	P.V.C.	0.00	12.50	107			
1	1	Casing	P.V.C.	0.00	21.50	56			Seated on Bottom
1	1	Opening	(Unknown)	12.50	15.50	56			PVC
1	1	Opening	(Unknown)	18.50	21.50	56			PVC

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.50	2.50	COLLUVIUM,Clay,sandy,light brown.		
2.50	4.50	2.00	COLLUVIUM,Sand,gravelly,light brown,sand fine,gravel fine to c		
			oarse subangula/subrounded		
4.50	8.50	4.00	COLLUVIUM,Clay,brown,high plasticity,some sand. Sand increasin		
			g towards base.		
8.50	10.50	2.00	SANDSTONE BEDROCKFine grained,brown highly weathered		
10.50	21.50	11.00	SANDSTONE BEDROCK Fine grained,grey with some coarse grains(1.		
			5mm),grey to green,fresh		

Remarks

BOREHOLE No. BH 9 PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY CO-ORDS 277815.02 E 1182587.14 N
placed to 11.3m Falling Head permeability test between 11.0-16.0m.

NOTES. No water strikes to 21.5m depth. Temporary steel casing

*** End of GW101401 ***

Warning To Clients: This raw data has been supplied to the Department of Natural Resources (DNR) by drillers, licensees and other sources. The DNR 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.

NSW OFFICE OF WATER

Work Summary

GW101402

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 19.00 m
Completion Date :02-Jun-1988 Drilled Depth : 19.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 0.93 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :
Elevation :
Elevation Source :
GS Map : MGA Zone :56
Coordinate Source :
CMA Map :
Grid Zone : Scale :
Northing :6186185
Easting :296862
Latitude (S) :34° 26' 45"
Longitude (E) :150° 47' 20"

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	12.50	153			Rotary Air
1		Hole	Hole	12.50	19.00	126			Rotary Air
1	1	Casing	P.V.C.	0.00	14.00	107			
1	1	Casing	P.V.C.	0.00	19.00	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	12.00	19.00	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	8.00	8.00	to coarse,white shell fragments,very loose.		
8.00	12.00	4.00	COLLUVIUM.Clay,highly plastic,orange-grey mottling some sand.		
12.00	14.00	2.00	SANDSTONE BEDROCK.Fine grained, brown highly weathered.		
14.00	19.00	5.00	SANDSTONE BEDROCK.Fine grained,grey unweathered.		

Remarks

Form A Remarks:
BOREHOLE No. BH 8

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY.

CO-ORDS 277937.12 E
1183138.11 N

BOREHOLE CAPPED

NOTES.1.COLLAPSING GROUND DURING DRILLING, BACKFILLED WITH DREDGED SAND.
2.Area marshy. 0.5m from stream. Initial water strike due to surface water infiltration from stream.
3. Temporary steel casing placed to 12.0m.
4. Falling Head permeability test section between 12.0-17.0m.

*** End of GW101402 ***

NSW OFFICE OF WATER

Work Summary

GW101403

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 18.50 m
Completion Date :31-Aug-1988 Drilled Depth : 18.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 9.83 m
Salinity :
Yield :

Site Details

Site Chosen By County Form A :CAMDEN Parish KEMBLA Portion/Lot DP 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	4.50	175			Rotary Air
1		Hole	Hole	4.50	18.50	140			Rotary Air
1	1	Casing	P.V.C.	0.00	4.50	107			
1	1	Casing	P.V.C.	0.00	18.50	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	5.50	8.50	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	10.50	13.50	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	15.50	18.50	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.00	2.00	COLLUVIUM.Clay,sandy,medium plasticity.sand fine light brown.		
2.00	3.00	1.00	RESIDUAL SOIL.Sand fine,light brown.		
3.00	6.50	3.50	SANDSTONE BEDROCK.Fine grained brown to yellow brown,highly we athered,some claystone/siltstone bands.		
6.50	15.00	8.50	SANDSTONE BEDROCK.Fine grained,purple grey becoming grey with depth unweathered. WRZ in zone.		
15.00	18.50	3.50	SANDSTONE BEDROCK.Medm.to crs.grained,red/gry,subrdd.conglomtc .in med.to crs. gry.sandstn.matrix.		

Remarks

Form A Remarks:
BOREHOLE No. BH 10

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY.

CO-ORDS 277218.103 E
1182822.386 N

BOREHOLE CAPPED

NOTES.1.WRZ denotes zone of weathering within relatively unweathered bedrock.
2.Falling Head permeability test sections between 3.0m - 8.5 and 8.5 - 18.5m.
3. Temporary steel casing to 3.0m.

*** End of GW101403 ***

NSW OFFICE OF WATER

Work Summary

GW101404

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 20.00 m
Completion Date :01-Sep-1988 Drilled Depth : 20.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 8.37 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :
Elevation : Northing :6186186 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	3.50	175			Rotary Air
1		Hole	Hole	3.50	20.00	140			Rotary Air
1	1	Casing	P.V.C.	0.00	4.00	107			
1	1	Casing	P.V.C.	0.00	20.00	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	14.00	20.00	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	TOPSOIL.Clay,sandy,dark brown rootlets		
0.50	1.00	0.50	RESIDUAL SOIL.Sand,fine,brown.		
1.00	3.50	2.50	SANDSTONE BEDROCK Fine to med.grnd.brown,some red?orange gravel,highly weathered conglomeritic in places.		
3.50	5.50	2.00	SANDSTONE BEDROCK.Fine grained,orange to grey,moderately weathered.		
5.50	8.00	2.50	SANDSTONE BEDROCK.Fine to medium grained,orange to grey,slightly weathered.		
8.00	10.50	2.50	SANDSTONE BEDROCK.Medium grained,grey unweathered becoming fine grained with depth.		
10.50	20.00	9.50	SANDSTONE BED ROCK. Siltstone,brown moderately weathrd (WRZ).A round 14m.Fin. grd.gry with med.grd.brn.sands-5% unwthrd.		

Remarks

Form A Remarks:
BOREHOLE No. BH 11A

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY.

CO_ORDS 277654.536 E
1182686.445 N

BOREHOLE CAPPED

NOTES. 1. WRZ denotes zone of weathering within relatively unweathered rock.
2. Falling Head permeability test section between 1.8m - 6.5m.
3. Temporary steel casing down to 1.5m.

*** End of GW101404 ***

Warning To Clients: This raw data has been supplied to the Department of Natural Resources (DNR) by drillers, licensees and other sources. The DNR 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.

NSW OFFICE OF WATER

Work Summary

GW101405

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 12.00 m
Completion Date :02-Sep-1988 Drilled Depth : 12.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 8.18 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	5.50	175			Rotary Air
1		Hole	Hole	5.50	12.00	140			Rotary Air
1	1	Casing	P.V.C.	0.00	5.50	107			
1	1	Casing	P.V.C.	0.00	12.00	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	8.00	12.00	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	TOPSOIL.Clay,sandy,dark brown rootlets.		
0.50	1.00	0.50	RESIDUAL SOIL.Sand ,fine brown.		
1.00	3.50	2.50	SANDSTONE BEDROCK.Fine to medium grained,brown, some red orange gravels,highly weathered conglomeritic in places.		
3.50	5.50	2.00	SANDSTONE BEDROCK.Fine grained,orange to grey,moderately weathered.		
5.50	8.00	2.50	SANDSTONE BEDROCK.Fine to medium grained,orange to grey,slightly weathered.		
8.00	10.50	2.50	SANDSTONE BEDROCK.Medium grained,grey unweathered becoming fine grained with depth.		
10.50	12.00	1.50	SANDSTONE BEDROCK. (WRZ) Siltstone,brown moderately weathered.		

Remarks

Form A Remarks:
BOREHOLE No. BH 11B

PROJECT: WONGAWILLIEMPLACEMENT GROUNDWATER STUDY.

CO-ORDS 277654.999 E
1182688.288 N

BOREHOLE CAPPED

NOTES. 1. WRZ denotes zone of weathering within relatively unweathered rock.
2. Falling Head permeability test section between 1.8 - 6.5m.

*** End of GW101405 ***

NSW OFFICE OF WATER

Work Summary

GW101406

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 20.00 m
Completion Date :02-Sep-1988 Drilled Depth : 20.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 5.01 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.50	175			Rotary Air
1		Hole	Hole	8.50	20.00	140			Rotary Air
1	1	Casing	P.V.C.	0.00	8.75	107			
1	1	Casing	P.V.C.	0.00	20.00	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	12.00	15.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	17.00	20.00	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	FILL.GRAVEL.Sandy,fine to coarse gravel.minor clay.		
1.00	5.00	4.00	COLLUVIUM.CLAY.sandy,high plasticity orange grey.Decrease in s and content towards base.		
5.00	8.00	3.00	COLLUVIUM.CLAY.sandy.medium plasticity,lightbrown some gravel.		
8.00	9.50	1.50	SANDSTONE BEDROCK.Fine grained,grey highly weathered.		
9.50	14.00	4.50	SANDSTONE BEDROCK.Fine,grey,unweathered.		
14.00	20.00	6.00	SANDSTONE BEDROCK.Medium to coarse grained,grey,with orange co arse grained sands.		

Remarks

Form A Remarks:
BOREHOLE No. BH 12A

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY

CO-ORDS 277623.449 E
1182345.578 N

BOREHOLE CAPPED

NOTES. 1. Falling Head permeability test section between 8.5 - 12.5m.
2.Grout seal at 8.0m.
3. Temporary steel casing down to 8.0m.

*** End of GW101406 ***

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NSW OFFICE OF WATER

Work Summary

GW101407

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 8.00 m
Completion Date :05-Sep-1988 Drilled Depth : 8.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 2.29 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	175			Rotary Air
1	1	Casing	P.V.C.	0.00	8.00	107			Seated on Bottom
1	1	Opening	Slots - Horizontal	4.50	8.00	107			PVC; (Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	FILL.GRAVEL.sandy,fine to coarse gravel,minor clay.		
1.00	4.75	3.75	COLLUVIUM.CLAY. sandy,high plasticity,orange grey.Decrease in sand content toward base.		
4.75	8.00	3.25	COLLUVIUM.CLAY.sandy,medium plasticity,light brown some gravel		

Remarks

Form A Remarks:
BOREHOLE No. BH 12B

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY.

CO-ORDS 277621.364 E
1182346.314 N

BOREHOLE CAPPED

NOTES. 1. BACKFILL AROUND 107mm. PVC over slotted area.
2. GROUT SEAL AT 4.0m.

*** End of GW101407 ***

NSW OFFICE OF WATER

Work Summary

GW101408

Licence :10BL156498

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 20.50 m
Completion Date :06-Sep-1988 Drilled Depth : 20.50 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 5.00 m
Salinity :
Yield :

Site Details

Site Chosen By County Parish Portion/Lot DP
Form A :CAMDEN KEMBLA 106//840320
Licensed :CAMDEN KEMBLA 46 50 51 237 238 239 245 246 257
Region :10 - SYDNEY SOUTH COAST CMA Map :
River Basin : Grid Zone : Scale :
Area / District :
Elevation : Northing :6186185 Latitude (S) :34° 26' 45"
Elevation Source : Easting :296862 Longitude (E) :150° 47' 20"
GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	9.00	175			Rotary Air
1		Hole	Hole	9.00	20.50	140			Rotary Air
1	1	Casing	P.V.C.	0.00	9.50	107			
1	1	Casing	P.V.C.	0.00	20.50	56			Seated on Bottom
1	1	Opening	Slots - Horizontal	9.00	12.00	56			PVC; (Unknown)
1	1	Opening	Slots - Horizontal	14.50	20.50	56			PVC; (Unknown)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.75	2.75	COLLUVIUM.CLAY.sandy.medium plasticity,grey with orange brown mottling sand fine.		
2.75	8.50	5.75	COLLUVIUM.CLAY.high plasticity grey,minor sand and gravels.Around 5.0m.grey with orange mottling.Around 7.0m grey.		
8.50	9.75	1.25	RESIDUAL SOIL.SAND.fine to medium grained,brown some coarse gravels.		
9.75	10.50	0.75	SANDSTONE BEDROCK.Fine brown moderately weathered		
10.50	14.50	4.00	SANDSTONE BEDROCK.Fine grey unweathered.(WRZ x 2 around 11.5m)		
14.50	20.50	6.00	SANDSTONE BEDROCK.Fine to coarse gravels red to brown in fine grey matrix conglomeritic,unweathered.(WRZ near 14.5m.)		

Remarks

Form A Remarks:
BOREHOLE No. BH 13

PROJECT: WONGAWILLI EMPLACEMENT GROUNDWATER STUDY.

CO-ORDS 278529.967 E
1182732.890 N

BOREHOLE CAPPED

NOTES 1. WRZ denotes zone of weathering within relatively unweathered bedrock.
2. Falling Head permeability test section between 9.0 -12.5m.
3.emporary steel casing down to 9.0m. Casing cut-off flow from water strike at 8.5m. hence lower blow-out yield.

*** End of GW101408 ***

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NSW OFFICE OF WATER

Work Summary

GW102289

Licence :10BL600018

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
INDUSTRIAL

Intended Purpose(s)
INDUSTRIAL

Commenced Date : Final Depth : 37.00 m
Completion Date :10-Feb-1999 Drilled Depth : 37.00 m

Contractor Name :Southern Tablelands Drilling
Driller :1603 RITCHIE, Roger Charles

Assistant Driller's Name :

Property : - W S C
GWMA : -
GW Zone : -

Standing Water Level : 1.00 m
Salinity : 1,600.00 mg/L
Yield : 3.48 L/s Cumulative

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
4//246076
4 246076

Region :10 - SYDNEY SOUTH COAST

CMA Map :
Grid Zone :

Scale :

River Basin :
Area / District :

Elevation :
Elevation Source :

Northing :6182800
Easting :300847

Latitude (S) :34° 28' 38"
Longitude (E) :150° 49' 53"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	11.00	200			Percussion
1		Hole	Hole	11.00	37.00	138			Percussion
1	1	Casing	P.V.C.	0.00	11.00	160	146		

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
13.00	14.00	1.00		1.00		0.22	14.00	0.50	300.00
24.00	25.00	1.00		1.00		0.26	25.00	0.50	500.00
30.00	31.00	1.00		1.00		3.00	31.00	0.50	1600.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	4.00	4.00	SANDSTONE, white, coarse clay fill	Sandstone	
4.00	7.00	3.00	CLAY, BROWN	Clay	
7.00	8.00	1.00	CLAY, BROWN WITH IRONSTONE	Clay	
8.00	16.00	8.00	SANDSTONE WITH IRONSTONE BANDS	Sandstone	
16.00	29.00	13.00	SILTSTONE, BLACK AND RED OXIDE	Siltstone	
29.00	33.00	4.00	SILTSTONE, GREY, very fractured	Siltstone	
33.00	37.00	4.00	OXIDE, RED		

Remarks

Previous Lic No: 10BL159088

*** End of GW102289 ***

NSW OFFICE OF WATER

Work Summary

GW102352

Licence :10BL603186			
Work Type :Bore		Authorised Purpose(s) DOMESTIC STOCK	Intended Purpose(s) DOMESTIC STOCK
Work Status :(Unknown)			
Construct. Method :			
Owner Type :			
Commenced Date :	Final Depth :	60.00 m	
Completion Date :01-Jan-1940	Drilled Depth :		
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - PETERSON		Standing Water Level :	5.00 m
GWMA : -		Salinity :	
GW Zone : -		Yield :	0.67 L/s

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	2 209007
	Licensed :CAMDEN	CALDERWOOD	2 209007
Region :10 - SYDNEY SOUTH COAST	CMA Map :		
River Basin :	Grid Zone :		Scale :
Area / District :			
Elevation :	Northing :6175880		Latitude (S) :34° 32' 16"
Elevation Source :	Easting :292452		Longitude (E) :150° 44' 18"
GS Map :	MGA Zone :56	Coordinate Source :	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Steel	0.00	0.00	152			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Form A Remarks:

DATA FROM AG APPLICATION ONLY Previous Lic. No 10BL158269 Previous Lic No:10BL158778

*** End of GW102352 ***

NSW OFFICE OF WATER

Work Summary

GW102523

Licence :10BL158961

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary
Owner Type :

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 102.00 m
Completion Date :04-Mar-1999 Drilled Depth : 102.00 m

Contractor Name :Southern Tablelands Drilling
Driller :1603 RITCHIE, Roger Charles

Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A : Licensed :CAMDEN	KEMBLA	104 840320
Region :10 - SYDNEY SOUTH COAST		CMA Map :	
River Basin :		Grid Zone :	Scale :
Area / District :			
Elevation :		Northing :6185566	Latitude (S) :34° 27' 5"
Elevation Source :		Easting :296933	Longitude (E) :150° 47' 22"
GS Map :	MGA Zone :56	Coordinate Source :	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	27.00	200			Rotary Air
1		Hole	Hole	27.00	102.00	138			Rotary Air
1	1	Casing	PVC Class 9	0.00	25.00	160	146		

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
0.00	102.00	102.00							

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	SOIL AND CLAY	Soil	
1.00	16.00	15.00	CLAY	Clay	
16.00	24.00	8.00	CLAY AND SANDSTONE	Clay	
24.00	27.00	3.00	COAL	Invalid Code	
27.00	42.00	15.00	SILTSTONE GREY	Siltstone	
42.00	45.00	3.00	SHAPE	Shale	
45.00	102.00	57.00	SILTSTONE GREY	Siltstone	

Remarks

*** End of GW102523 ***

NSW OFFICE OF WATER

Work Summary

GW103334

Licence :10BL158771

Work Type :Bore

Work Status :(Unknown)

Construct. Method :

Owner Type :

Authorised Purpose(s)

MONITORING BORE

Intended Purpose(s)

MONITORING BORE

Commenced Date : Final Depth : 8.40 m

Completion Date :03-Aug-1998 Drilled Depth : 8.40 m

Contractor Name :Macquarie Drilling

Driller :

Assistant Driller's Name :

Property : - N/A

GWMA : -

GW Zone : -

Standing Water Level : 2.00 m

Salinity :

Yield :

Site Details

Site Chosen By

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

CALDERWOOD

CALDERWOOD

Portion/Lot DP

2//229358

2 229358

Region :10 - SYDNEY SOUTH COAST

CMA Map :

River Basin :

Grid Zone :

Scale :

Area / District :

Elevation :

Northing :6178122

Latitude (S) :34° 31' 3"

Elevation Source :

Easting :291925

Longitude (E) :150° 43' 60"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.40				

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.20	2.20	ORANGE BROWN SILTY CLAY/GRAVEL	Silty Clay	
2.20	2.70	0.50	ORANGE BROWN SILTY CLAY	Silty Clay	
2.70	3.70	1.00	BROWN CLAY WITH SILT SAND	Clay	
3.70	6.80	3.10	INTERBEDDED SANDSTONE AND SHALE	Sandstone	
6.80	8.40	1.60	INTERBEDDED S/S MORE COHERENT		

Remarks

*** End of GW103334 ***

NSW OFFICE OF WATER

Work Summary

GW103335

Licence :10BL158771

Work Type :Bore

Work Status :(Unknown)

Construct. Method :

Owner Type :

Authorised Purpose(s)

MONITORING BORE

Intended Purpose(s)

MONITORING BORE

Commenced Date : Final Depth : 10.00 m

Completion Date :03-Aug-1998 Drilled Depth : 10.00 m

Contractor Name :Macquarie Drilling

Driller :

Assistant Driller's Name :

Property : - N/A

GWMA : -

GW Zone : -

Standing Water Level : 5.00 m

Salinity :

Yield :

Site Details

Site Chosen By

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

CALDERWOOD

CALDERWOOD

Portion/Lot DP

2//229358

2 229358

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

CMA Map :

Grid Zone :

Scale :

Elevation :

Elevation Source :

Northing :6178122

Easting :291925

Latitude (S) :34° 31' 3"

Longitude (E) :150° 43' 60"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	10.00				

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.60	0.60	BLACK SILT	Silt	
0.60	2.10	1.50	ORANGE BROWN SILTY SAND	Sand	
2.10	3.10	1.00	LIGHT ORANGE BROWN SILTY SAND	Sand	
3.10	5.30	2.20	ORANGE BROWN SILTY SAND	Sand	
5.30	8.60	3.30	BROWN SILTY CLAY	Silty Clay	
8.10	10.00	1.90	INTERBEDDED SANDSTONE AND SHALE	Sandstone	

Remarks

*** End of GW103335 ***

NSW OFFICE OF WATER

Work Summary

GW103336

Licence :10BL158771

Work Type :Bore

Work Status :(Unknown)

Construct. Method :

Owner Type :

Authorised Purpose(s)

MONITORING BORE

Intended Purpose(s)

MONITORING BORE

Commenced Date : Final Depth : 11.50 m

Completion Date :03-Aug-1998 Drilled Depth : 11.50 m

Contractor Name :Macquarie Drilling

Driller :

Assistant Driller's Name :

Property : - N/A

GWMA : -

GW Zone : -

Standing Water Level : 9.00 m

Salinity :

Yield :

Site Details

Site Chosen By

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

CALDERWOOD

CALDERWOOD

Portion/Lot DP

2//229358

2 229358

Region :10 - SYDNEY SOUTH COAST

CMA Map :

River Basin :

Grid Zone :

Scale :

Area / District :

Elevation :

Northing :6178122

Latitude (S) :34° 31' 3"

Elevation Source :

Easting :291925

Longitude (E) :150° 43' 60"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	11.50				

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.60	3.60	BLACK SANDY GRAVEL		
3.60	7.80	4.20	BROWN SILTY CLAY		
7.80	10.80	3.00	RED BROWN CLAY WITH SILT		
10.80	11.50	0.70	WEATHERED SANDSTONE		

Remarks

*** End of GW103336 ***

NSW OFFICE OF WATER

Work Summary

GW103337

Licence :10BL158771

Work Type :Bore

Work Status :(Unknown)

Construct. Method :

Owner Type :

Authorised Purpose(s)

MONITORING BORE

Intended Purpose(s)

MONITORING BORE

Commenced Date :

Final Depth :

8.50 m

Completion Date :03-Aug-1998

Drilled Depth :

8.50 m

Contractor Name :Macquarie Drilling

Driller :

Assistant Driller's Name :

Property : - N/A

GWMA : -

GW Zone : -

Standing Water Level :

6.50 m

Salinity :

Yield :

Site Details

Site Chosen By

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

CALDERWOOD

CALDERWOOD

Portion/Lot DP

2//229358

2 229358

Region :10 - SYDNEY SOUTH COAST

CMA Map :

River Basin :

Grid Zone :

Scale :

Area / District :

Elevation :

Northing :6178122

Latitude (S) :34° 31' 3"

Elevation Source :

Easting :291925

Longitude (E) :150° 43' 60"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.50				

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	BLACK SILTY SAND	Sand	
0.50	4.20	3.70	RED BROWN SILTY CLAY WITH SAND	Silty Clay	
4.20	7.30	3.10	DARK BROWN SILTY CLAY	Silty Clay	
7.30	8.50	1.20	INTERBEDDED SANDSTONE AND SHALE	Sandstone	

Remarks

*** End of GW103337 ***

NSW OFFICE OF WATER

Work Summary

GW103338

Licence :10BL158771

Work Type :Bore

Work Status :(Unknown)

Construct. Method :

Owner Type :

Authorised Purpose(s)

MONITORING BORE

Intended Purpose(s)

MONITORING BORE

Commenced Date : Final Depth : 2.20 m

Completion Date :04-Aug-1998 Drilled Depth : 2.20 m

Contractor Name :Macquarie Drilling

Driller :

Assistant Driller's Name :

Property : - N/A

GWMA : -

GW Zone : -

Standing Water Level : 1.50 m

Salinity :

Yield :

Site Details

Site Chosen By

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

CALDERWOOD

CALDERWOOD

Portion/Lot DP

2//229358

2 229358

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

CMA Map :

Grid Zone :

Scale :

Elevation :

Elevation Source :

Northing :6178122

Easting :291925

Latitude (S) :34° 31' 3"

Longitude (E) :150° 43' 60"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	2.20				

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.40	0.40	BROWN SANDY CLAY	Sandy Clay	
0.40	0.80	0.40	ORANGE SANDY GRAVEL	Gravel	
0.80	2.20	1.40	BLACK SILTY CLAY WITH BOULDERS	Silty Clay	

Remarks

*** End of GW103338 ***

NSW OFFICE OF WATER

Work Summary

GW103590

Licence :10BL159570

Work Type :Bore

Work Status :Abandoned - Backfilled

Construct. Method :Rotary

Owner Type :Private

Authorised Purpose(s)
TEST BORE

Intended Purpose(s)
TEST BORE

Commenced Date : Final Depth : 48.00 m

Completion Date :19-Oct-2000 Drilled Depth : 48.00 m

Contractor Name :Southern Tablelands Drilling

Driller :1603 RITCHIE, Roger Charles

Assistant Driller's Name :

Property : - N/A

GWMA : -

GW Zone : -

Standing Water Level :

Salinity :

Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
6//2534
6 2534

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

CMA Map :

Grid Zone :

Scale :

Elevation :

Elevation Source :

Northing :6174719

Easting :291234

Latitude (S) :34° 32' 53"

Longitude (E) :150° 43' 29"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	48.00	200			Down Hole Hammer
1		Annulus	Waterworn/Rounded	0.00	48.00				Graded; GS: 2-7mm; 1m³

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
29.00	30.00	1.00		15.00		0.20	30.00	0.50	900.00
35.00	36.00	1.00		15.00		0.60	36.00	0.50	1200.00
41.00	42.00	1.00		15.00		2.08	42.00	0.50	3300.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	TOPSOIL	Topsoil	
0.50	8.00	7.50	CLAY/SOIL	Clay	
8.00	48.00	40.00	SHALE/SILTSTONE/BLUE METAL WITH IRONSTONE BANDS	Shale	

Remarks

Form A Remarks:

BACKFILLED DUE TO EXCESSIVE SALINITY.

*** End of GW103590 ***

NSW OFFICE OF WATER

Work Summary

GW103624

Licence :10BL160061

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary
Owner Type :

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 60.00 m
Completion Date :25-Jan-2001 Drilled Depth : 60.00 m

Contractor Name :Highland Drilling Pty Ltd
Driller :1771 DELAMONT, Brett

Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : 1,340.00 mg/L
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
32//862829
32 862829

Region :10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6184887
Easting :297120

Latitude (S) :34° 27' 28"
Longitude (E) :150° 47' 29"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	14.00	200			Down Hole Hammer
1		Hole	Hole	14.00	60.00	152			Down Hole Hammer
1	1	Casing	PVC Class 9	0.00	14.00	160			C: 0-2m; Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
34.50	36.00	1.50		12.00		2.25	36.00	0.50	1340.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	6.00	6.00	ORANGE CLAY	Clay	
6.00	60.00	54.00	GREY SILTSTONE	Siltstone	

Remarks

*** End of GW103624 ***

NSW OFFICE OF WATER

Work Summary

GW104204

Licence :10BL157589

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
IRRIGATION
RECREATION (GROUNDWATER)

Intended Purpose(s)
RECREATION (GROUNDWATER)

Commenced Date : Final Depth : 36.00 m
Completion Date :17-Apr-1996 Drilled Depth : 36.00 m

Contractor Name :Windley's Water Wells Pty Ltd
Driller :1575 WINDLEY, Phillip Arthur

Assistant Driller's Name :

Property : - CALDERWOOD VALLEY GOLF CLUB
GWMA : -
GW Zone : -

Standing Water Level : 18.00 m
Salinity : Fair
Yield : 3.50 L/s

Site Details

Site Chosen By Diviner Driller County Form A :CAMDEN Parish CALDERWOOD Portion/Lot DP 6 2534
Licensed :CAMDEN CALDERWOOD 6 2534

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation : Northing :6174390 Latitude (S) :34° 33' 4"
Elevation Source : Easting :291237 Longitude (E) :150° 43' 29"

GS Map : MGA Zone :56 Coordinate Source :Map Interpretation

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	30.00	170			Rotary Air
1		Hole	Hole	30.00	36.00	150			Rotary Air
1	1	Casing	P.V.C.	0.00	30.00	160			Glued; Driven into Hole
1	1	Opening	Slots - Horizontal	25.00	30.00				PVC; Sawn; SL: 1mm; A: 3mm
1		Annulus	(Unknown)	10.00	36.00				(Unknown); GS: 0-10mm; 1m³

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
26.00	30.00	4.00		18.00	28.00	3.50	36.00	1.00	Fair

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.60	0.60	SOIL	Soil	
0.60	4.00	3.40	CLAY	Clay	
4.00	10.00	6.00	SHALE	Shale	
10.00	30.00	20.00	MUDSTONE/ SILT	Mudstone	
30.00	36.00	6.00	SHALE	Shale	

Remarks

*** End of GW104204 ***

NSW OFFICE OF WATER

Work Summary

GW105351

Licence :10BL156430

Work Type :Bore
Work Status :
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : Final Depth : 17.00 m
Completion Date :24-Aug-2004 Drilled Depth : 17.00 m

Contractor Name :Windley's Water Wells Pty Ltd
Driller :1575 WINDLEY, Phillip Arthur

Assistant Driller's Name :

Property : - AVONLEA LODGE
GWMA : -
GW Zone : -

Standing Water Level : 6.00 m
Salinity : Good
Yield : 2.50 L/s

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
LT1 DP199396
1 199396

Region :10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6181116
Easting :293608

Latitude (S) :34° 29' 27"
Longitude (E) :150° 45' 8"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	17.00	160			Rotary Air
1	1	Casing	P.V.C.	0.00	6.00	160			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
13.00	14.00	1.00		6.00	13.00	2.50	17.00	1.00	Good

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	SOIL	Soil	
1.00	2.00	1.00	CLAY	Clay	
2.00	5.00	3.00	SLATE	Slate	
5.00	17.00	12.00	SANDSTONE	Sandstone	

Remarks

*** End of GW105351 ***

NSW OFFICE OF WATER

Work Summary

GW105699

Licence :10BL161970

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Down Hole Hammer
Owner Type :Private

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : Final Depth : 132.00 m
Completion Date :18-Feb-2004 Drilled Depth : 132.00 m

Contractor Name :Southern Tablelands Drilling
Driller :1603 RITCHIE, Roger Charles

Assistant Driller's Name :

Property : - MORELLI
GWMA : -
GW Zone : -

Standing Water Level : 113.00 m
Salinity :
Yield : 0.04 L/s cumulative

Site Details

Site Chosen By

Client Driller

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
109//840320
109 840320

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation : 0.00
Elevation Source :(Unknown)

Northing :6185317
Easting :296760
Latitude (S) :34° 27' 13"
Longitude (E) :150° 47' 15"

GS Map : MGA Zone :56

Coordinate Source :GIS - Geographic Information System

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	6.00	205			Down Hole Hammer
1		Hole	Hole	6.00	132.00	165			Down Hole Hammer
1	1	Casing	PVC Class 9	0.00	6.00	160	148		Screwed and Glued; Driven into Hole; Open End

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.50	12.00	0.50		113.00		0.04			

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.00	3.00	clay	Clay	
3.00	26.00	23.00	sandstone, light grey	Sandstone	
26.00	132.00	106.00	siltstone, light	Siltstone	

Remarks

updated from original form A

*** End of GW105699 ***

NSW OFFICE OF WATER

Work Summary

GW105700

Licence :10BL161971

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Down Hole Hammer
Owner Type :Private

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : Final Depth : 72.00 m
Completion Date :12-Feb-2004 Drilled Depth : 72.00 m

Contractor Name :Southern Tablelands Drilling
Driller :1603 RITCHIE, Roger Charles

Assistant Driller's Name :

Property : - HOUSE WITH NO STEPS
GWMA : -
GW Zone : -

Standing Water Level : 43.00 m
Salinity :
Yield : 0.20 L/s cumulative

Site Details

Site Chosen By
Driller

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
1//1039888
1 1039888

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9028-1N
Grid Zone :56/1

ALBION PARK
Scale :1:25,000

Elevation : 0.00
Elevation Source :(Unknown)

Northing :6175542
Easting :293810
Latitude (S) :34° 32' 28"
Longitude (E) :150° 45' 11"

GS Map : MGA Zone :56

Coordinate Source :GIS - Geographic Information System

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	12.00	205			Down Hole Hammer
1		Hole	Hole	12.00	72.00	165			Down Hole Hammer
1	1	Casing	PVC Class 9	0.00	12.00	160	148		Screwed and Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
62.50	63.00	0.50		43.00	64.00	0.02		1.00	500.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	6.00	6.00	clay	Clay	
6.00	72.00	66.00	siltstone	Siltstone	

Remarks

updated from original form A

*** End of GW105700 ***

NSW OFFICE OF WATER

Work Summary

GW105928

Licence :10BL161557		Authorised Purpose(s) DOMESTIC STOCK	Intended Purpose(s)
Work Type :Bore			
Work Status :			
Construct. Method :			
Owner Type :			
Commenced Date :	Final Depth :		
Completion Date :16-May-2005	Drilled Depth :		
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - N/A		Standing Water Level :	
GWMA : -		Salinity :	
GW Zone : -		Yield :	

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish CALDERWOOD CALDERWOOD	Portion/Lot DP 5 655315 5 655315
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N	ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation : 0.00		Northing :6178441	Latitude (S) :34° 30' 54"
Elevation Source :(Unknown)		Easting :294112	Longitude (E) :150° 45' 26"
GS Map :	MGA Zone :56	Coordinate Source :	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW105928 ***

NSW OFFICE OF WATER

Work Summary

GW107191

Licence :10BL164454

Work Type :Bore

Work Status :Supply Obtained

Construct. Method :Rotary

Owner Type :Private

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : **Final Depth :** 52.00 m

Completion Date :19-Dec-2004 **Drilled Depth :** 52.00 m

Contractor Name :Britt's Water Solutions

Driller :1488 BRITT, Thomas Garry

Assistant Driller's Name :

Property : - HUMPHRIES

GWMA : -

GW Zone : -

Standing Water Level : 11.00 m

Salinity :

Yield : 8.00 L/s cumulative

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
4 794002
4 794002

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

CMA Map :

Grid Zone :

Scale :

Elevation :

Elevation Source :

Northing :6183281

Easting :300653

Latitude (S) :34° 28' 22"

Longitude (E) :150° 49' 46"

GS Map :

MGA Zone :56

Coordinate Source :GIS - Geographic Information System

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	6.00	200			Rotary
1		Hole	Hole	6.00	52.00	163			Rotary
1	1	Casing	P.V.C.	-0.30	12.00	160			Glued; Driven into Hole; Open End
1		Annulus	Concrete	4.00	6.00	200			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
51.00	52.00	1.00		11.00		8.00		1.00	Fresh

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	topsoil	Topsoil	
0.30	2.00	1.70	clay, sandy	Clay	
2.00	2.20	0.20	shale, weathtered	Shale	
2.20	52.00	49.80	shale, blue	Shale	

Remarks

updated from original form A

*** End of GW107191 ***

NSW OFFICE OF WATER

Work Summary

GW107654

Licence :10BL165768

Work Type :Bore
Work Status :
Construct. Method :Rotary Air
Owner Type :

Authorised Purpose(s)
RECREATION (GROUNDWATER)

Intended Purpose(s)
RECREATION (GROUNDWATER)

Commenced Date : Final Depth : 54.00 m
Completion Date :09-Feb-2005 Drilled Depth : 54.00 m

Contractor Name :Britt's Water Solutions
Driller :1488 BRITT, Thomas Garry

Assistant Driller's Name :

Property : - DAPTO BOWLING CLUB LTD
GWMA : -
GW Zone : -

Standing Water Level : 6.00 m
Salinity :
Yield : 0.10 L/s

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
1 1077277
1 1077277

Region :10 - SYDNEY SOUTH COAST

CMA Map :

River Basin :
Area / District :

Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6180221
Easting :296918

Latitude (S) :34° 29' 59"
Longitude (E) :150° 47' 17"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	24.00				Rotary Air
1		Hole	Hole	24.00	54.00				Rotary Air
1	1	Casing	P.V.C.	-0.30	28.00				Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
19.00	19.05	0.05		6.00		0.20	24.00	0.50	Fresh
40.00	40.15	0.15		6.00		3.60	45.00	0.50	Fresh
42.00	42.10	0.10		6.00		0.50	47.00	0.50	Fresh
46.00	46.10	0.10		6.00		0.10	51.00	0.50	Fresh

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	TOPSOIL	Topsoil	
1.00	10.00	9.00	LANDFILL	Invalid Code	
10.00	12.50	2.50	GREY CLAY	Clay	
12.50	26.00	13.50	GREY SANDSTONE/SHALE BANDS	Invalid Code	
26.00	38.00	12.00	BLUE SHALE	Invalid Code	
38.00	54.00	16.00	GREY SANDSTONE	Invalid Code	

Remarks

Previous Lic No: 10BL164762

*** End of GW107654 ***

NSW OFFICE OF WATER

Work Summary

GW107675

Licence :10BL161115

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Down Hole Hammer
Owner Type :Private

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : Final Depth : 55.00 m
Completion Date :15-Jan-2003 Drilled Depth : 55.00 m

Contractor Name :Highland Drilling Pty Ltd
Driller :1771 DELAMONT, Brett

Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 16.00 m
Salinity :
Yield : 2.00 L/s cumulative

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
2//528208
2 528208

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation :
Elevation Source :

Northing :6184609
Easting :295226

Latitude (S) :34° 27' 35"
Longitude (E) :150° 46' 15"

GS Map : MGA Zone :56

Coordinate Source :GPS - Global Positioning System

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	11.00	254			Down Hole Hammer
1		Hole	Hole	11.00	55.00	200			Down Hole Hammer
1	1	Casing	Steel	0.00	0.00	160			Welded; Driven into Hole
1	1	Casing	PVC Class 9	0.00	55.00	160			Screwed and Glued; Seated on Bottom
1	1	Opening	Slots - Diagonal	36.00	54.00	160			PVC Class 9; Sawn; SL: 18mm; A: 2mm
1		Annulus	Waterworn/Rounded	0.00	0.00	254	160		Graded; GS: 3-5mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
41.00	42.00	1.00		16.00		0.50			900.00
46.00	47.00	1.00				1.00			1140.00
50.00	51.00	1.00				0.50			1000.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	6.00	6.00	basalt, soil and rock	Basalt	
6.00	12.00	6.00	basalt, decomposed, & sandstone floaters	Basalt	
12.00	30.00	18.00	sandstone, floaters	Sandstone	
30.00	36.00	6.00	coal	Coal	
36.00	55.00	19.00	siltstone	Siltstone	

Remarks

Form A Remarks:
pump test recommended Updated from original form A. GPS provided by driller.

*** End of GW107675 ***

NSW OFFICE OF WATER

Work Summary

GW107727

Licence :10BL165715

Work Type :Spear
Work Status :Supply Obtained
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : Final Depth : 7.00 m
Completion Date :08-Jan-2006 Drilled Depth : 7.00 m

Contractor Name :Britt's Water Solutions
Driller :1488 BRITT, Thomas Garry

Assistant Driller's Name :

Property : - MC KAY
GWMA : -
GW Zone : -

Standing Water Level : 4.50 m
Salinity : Fresh
Yield : 1.20 L/s

Site Details

Site Chosen By
Client

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
635//31902
635 31902

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9029-2S
Grid Zone :56/1

WOLLONGONG
Scale :1:25,000

Elevation :
Elevation Source :

Northing :6182677
Easting :301625
Latitude (S) :34° 28' 42"
Longitude (E) :150° 50' 24"

GS Map : MGA Zone :56

Coordinate Source :GIS - Geographic Information System

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	7.00	250			Rotary Air
1	1	Casing	P.V.C.	-0.20	7.00	160	148		Glued; Seated on Bottom
1	1	Opening	Slots - Vertical	5.50	7.00	160			PVC; Sawn; SL: 50mm; A: 3mm; Glued
1		Annulus	Waterworm/Rounded	0.00	0.00				Graded; GS: .5-.7mm; .3m³

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
5.50	6.00	0.50		4.50		1.20		2.00	Fresh

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.60	0.60	topsoil	Topsoil	
0.60	4.30	3.70	clay	Clay	
4.30	5.10	0.80	clay, sandy	Sandy Clay	
5.10	6.00	0.90	sandstone, weathered	Sandstone	
6.00	7.00	1.00	sandstone	Sandstone	

Remarks

updated from original form A

*** End of GW107727 ***

NSW OFFICE OF WATER

Work Summary

GW107819

Licence :10BL600069

Work Type :Bore
Work Status :
Construct. Method :Rotary
Owner Type :

Authorised Purpose(s)
RECREATION (GROUNDWATER)

Intended Purpose(s)
RECREATION (GROUNDWATER)

Commenced Date : Final Depth : 150.00 m
Completion Date :20-Dec-2005 Drilled Depth : 150.00 m

Contractor Name :Southern Tablelands Drilling
Driller :1603 RITCHIE, Roger Charles

Assistant Driller's Name :

Property : - ALBION PARK BOWLING CLUB
GWMA : -
GW Zone : -

Standing Water Level : 0.20 m
Salinity : 4,750.00 mg/L
Yield : 0.10 L/s

Site Details

Site Chosen By
Driller Hydrogeologist
County
Form A :CAMDEN
Licensed :CAMDEN
Parish
JAMBEROO
JAMBEROO
Portion/Lot DP
243 1056253
243 1056253
Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :
CMA Map :
Grid Zone :
Scale :
Elevation :
Elevation Source :
Northing :6172303
Eastng :295287
Latitude (S) :34° 34' 14"
Longitude (E) :150° 46' 6"
GS Map : MGA Zone :56
Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	30.00	200			Down Hole Hammer
1		Hole	Hole	30.00	150.00	152			Down Hole Hammer
1	1	Casing	PVC Class 9	0.00	30.00	160	148		Screwed and Glued; Driven into Hole
1	1	Opening	Slots - Diagonal	12.00	18.00	160			PVC Class 9; Sawn; SL: 100mm; A: 2mm
1	1	Opening	Slots - Diagonal	18.00	30.00	160			PVC Class 9; Sawn; SL: 100mm; A: 2mm
1		Annulus	Waterworm/Rounded	6.00	30.00				Graded; GS: 2-5mm; 1.5m³

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
14.00	15.00	1.00		0.20		1.70	16.00	0.50	4750.00
21.00	22.00	1.00				0.80	23.00	0.50	
26.00	28.00	2.00				0.10	29.00	0.50	

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	7.00	7.00	CLAY	Clay	
7.00	150.00	143.00	SILTSTONE	Siltstone	

Remarks

Previous Lic No:10BL164945

*** End of GW107819 ***

NSW OFFICE OF WATER

Work Summary

GW108033

Licence :10BL600011

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Rotary
Owner Type :Private

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : Final Depth : 52.00 m
Completion Date :30-May-2006 Drilled Depth : 53.00 m

Contractor Name :Britt's Water Solutions
Driller :1923 BRITT, Darren James

Assistant Driller's Name :

Property : - RICE
GWMA : -
GW Zone : -

Standing Water Level : 6.00 m
Salinity :
Yield : 1.50 L/s cumulative

Site Details

Site Chosen By
Driller

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
10 737087
10 737087

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation : Northing :6183194 Latitude (S) :34° 28' 25"
Elevation Source : Easting :300269 Longitude (E) :150° 49' 31"

GS Map : MGA Zone :56 Coordinate Source :GIS - Geographic Information System

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	18.00	160			Rotary
1		Hole	Hole	18.00	52.00	144			
1	1	Casing	P.V.C.	0.00	23.00	140	128		Glued; Driven into Hole; Open End

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
52.00	53.00	1.00		6.00		1.50		1.00	Fresh

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	road bass		
0.20	2.00	1.80	coal, wash	Coal	
2.00	5.00	3.00	clay, grey	Clay	
5.00	8.00	3.00	clay, brown	Clay	
8.00	12.00	4.00	sands, gravels	Sandstone	
12.00	15.00	3.00	clay, orange	Clay	
15.00	52.00	37.00	shale, grey	Shale	
52.00	53.00	1.00	shale, large broken	Shale	

Remarks

updated from original form a

*** End of GW108033 ***

NSW OFFICE OF WATER

Work Summary

GW108326

Licence :10BL600597

Work Type :Bore

Work Status :

Construct. Method :Rotary Air

Owner Type :

Authorised Purpose(s)

RECREATION (GROUNDWATER)

Intended Purpose(s)

RECREATION (GROUNDWATER)

Commenced Date : Final Depth : 54.00 m

Completion Date :01-Jan-2005 Drilled Depth : 54.00 m

Contractor Name :Britt's Water Solutions

Driller :1488 BRITT, Thomas Garry

Assistant Driller's Name :

Property : - DAPTO DANDALOO HOTEL

GWMA : -

GW Zone : -

Standing Water Level :

1.00 m

Salinity :

Brackish

Yield :

4.40 L/s

Site Details

Site Chosen By

Driller

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

CALDERWOOD

CALDERWOOD

Portion/Lot DP

8 560853

8 560853

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

CMA Map :

Grid Zone :

Scale :

Elevation :

Elevation Source :

Northing :6181654

Easting :298576

Latitude (S) :34° 29' 13"

Longitude (E) :150° 48' 23"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	18.00	200			Rotary Air
1		Hole	Hole	18.00	54.00	160			Rotary Air
1	1	Casing	PVC Class 6	0.30	18.00	160			Glued; Driven into Hole
1	1	Opening	Slots - Vertical	15.00	16.00	160			PVC; SL: 1mm; A: 20mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
13.00	13.03	0.03		1.00		2.50		0.50	Brackish
40.00	40.10	0.10		1.00		4.40		0.50	Brackish

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	TOPSOIL	Topsoil	
0.20	3.00	2.80	SANDY CLAY	Invalid Code	
3.00	8.00	5.00	PUGGY CLAY	Invalid Code	
8.00	16.00	8.00	COARSE GRAVEL	Invalid Code	
16.00	30.00	14.00	GRANITE	Granite	
30.00	42.00	12.00	BLUE SHALE	Invalid Code	
42.00	54.00	12.00	GREY SANDSTONE	Invalid Code	

Remarks

Previous Lic No:10BL164306

*** End of GW108326 ***

NSW OFFICE OF WATER

Work Summary

GW108663

Licence :10BL161994

Work Type :Bore
Work Status :
Construct. Method :
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 73.15 m
Completion Date :14-Mar-2008 Drilled Depth :

Contractor Name :
Driller :400 UNKNOWN, Unkown
Assistant Driller's Name :

Property : - YARRABINDA
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
JAMBEROO
CALDERWOOD

Portion/Lot DP
7//259137
7 259137

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6171695
Easting :292547

Latitude (S) :34° 34' 32"
Longitude (E) :150° 44' 18"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m) To (m) Thickness(m) Drillers Description

Geological Material

Comments

Remarks

*** End of GW108663 ***

NSW OFFICE OF WATER

Work Summary

GW108854

Licence :10BL601906

Work Type :Bore
Work Status :Supply Obtained
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
RECREATION (GROUNDWATER)

Intended Purpose(s)
RECREATION (GROUNDWATER)

Commenced Date : Final Depth : 90.00 m
Completion Date :01-May-2008 Drilled Depth : 90.00 m

Contractor Name :Britt's Water Solutions
Driller :1488 BRITT, Thomas Garry

Assistant Driller's Name :

Property : - KEMBLA GRANGE RECREATION TRUST
GWMA : -
GW Zone : -

Standing Water Level : 4.50 m
Salinity : Fresh
Yield : 5.50 L/s Cumulative

Site Details

Site Chosen By

Driller

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
1 600073
1 600073

Region :10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6183188
Easting :299786

Latitude (S) :34° 28' 24"
Longitude (E) :150° 49' 12"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	28.00	250			Rotary Air
1		Hole	Hole	28.00	90.00	200			Rotary Air
1	1	Casing	P.V.C.	-0.30	28.00	225	209		PC: 15-28m; Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
40.00	40.10	0.10		4.50		1.80		0.50	Fresh
66.00	66.10	0.10		4.50		2.00		0.50	Fresh
75.00	75.10	0.10		4.50		1.70		0.50	Fresh

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.50	2.50	COAL, WASH FILL	Coal	
2.50	9.50	7.00	CLAY BANDS	Clay	
9.50	17.00	7.50	BLACK SANDY SHALES	Shale	
17.00	79.00	62.00	COLOURED SHALES, BROKEN BANDS	Shale	
79.00	90.00	11.00	BLACK SHALE	Shale	

Remarks

Previous Lic No:10BL162878

*** End of GW108854 ***

NSW OFFICE OF WATER

Work Summary

GW109033

Licence :10BL601042		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore		DOMESTIC	DOMESTIC
Work Status :			
Construct. Method :			
Owner Type :Private			
Commenced Date :		Final Depth :	95.00 m
Completion Date :14-Jul-2008		Drilled Depth :	
Contractor Name :Southern Tablelands Drilling			
Driller :1603		RITCHIE, Roger Charles	
Assistant Driller's Name :			
Property : - WITHNALL		Standing Water Level :	
GWMA : -		Salinity :	
GW Zone : -		Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	CALDERWOOD	32//1070753
	Licensed :CAMDEN	CALDERWOOD	32 1070753
Region :10 - SYDNEY SOUTH COAST		CMA Map :	
River Basin :		Grid Zone :	Scale :
Area / District :			
Elevation :		Northing :6180203	Latitude (S) :34° 30' 2"
Elevation Source :		Easting :300231	Longitude (E) :150° 49' 27"
GS Map :	MGA Zone :56	Coordinate Source :	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
(No Water Bearing Zone Details Found)									

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW109033 ***

NSW OFFICE OF WATER

Work Summary

GW110514

Licence :10BL600934

Work Type :Bore
Work Status :
Construct. Method :
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date :
Completion Date :01-Jan-1970

Final Depth : 27.00 m
Drilled Depth :

Contractor Name :
Driller :400 UNKNOWN, Unkown
Assistant Driller's Name :

Property : - DALAVON
GWMA : -
GW Zone : -

Standing Water Level : 18.00 m
Salinity :
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
223//789384
223 789384

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6178330
Easting :294430

Latitude (S) :34° 30' 58"
Longitude (E) :150° 45' 38"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	27.00				

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Form A Remarks:
Casing: 5 inch Steel with 6 inch PVC for the top few metres.
Diameter of casing: 125mm Steel.

*** End of GW110514 ***

NSW OFFICE OF WATER

Work Summary

GW110693

Licence :10BL603151

Work Type :Well
Work Status :
Construct. Method :Hand Drilled
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 12.00 m
Completion Date :16-Jul-2009 Drilled Depth : 12.00 m

Contractor Name :Numac Drilling Services Pty Ltd
Driller :2070 TANT, Simon Benjamin

Assistant Driller's Name :

Property : - MOBIL DAPTO SERVICE STATION
GWMA : -
GW Zone : -

Standing Water Level : 6.00 m
Salinity :
Yield :

Site Details

Site Chosen By
Geologist

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
2//570982
2 570982

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6180342
Easting :297214

Latitude (S) :34° 29' 55"
Longitude (E) :150° 47' 29"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	1.00	150			Hand Drilled
1		Hole	Hole	1.00	12.00	150			Rotary
1	1	Casing	P.V.C.	0.00	9.00	60			Other; Seated on Bottom
1	1	Opening	Screen	9.00	12.00	60			PVC; A: .5mm; Other
1		Annulus	Waterworm/Rounded	0.00	0.00				Graded; GS: 2-4mm
1		Annulus	Concrete	0.00	7.00	150			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.50	12.00	1.50		6.00					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	CONCRETE	Conglomerate	
0.20	1.00	0.80	FILL	Fill	
1.00	8.00	7.00	SANDSTONE YELLOW	Sandstone	
8.00	10.50	2.50	SANDSTONE GREY BROWN	Sandstone	
10.50	12.00	1.50	SHALE WEATHERED GREY	Shale	

Remarks

*** End of GW110693 ***

NSW OFFICE OF WATER

Work Summary

GW110694

Licence :10BL603151

Work Type :Well
Work Status :
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 20.00 m
Completion Date :16-Jul-2009 Drilled Depth : 20.00 m

Contractor Name :Numac Drilling Services Pty Ltd
Driller :2070 TANT, Simon Benjamin

Assistant Driller's Name :

Property : - MOBIL DAPTO SERVICE STATION
GWMA : -
GW Zone : -

Standing Water Level : 18.00 m
Salinity :
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
2//570982
2 570982

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6180344
Easting :297224

Latitude (S) :34° 29' 55"
Longitude (E) :150° 47' 29"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	20.00	150			Rotary Air
1	1	Casing	P.V.C.	0.00	17.00	60			Other
1	1	Opening	Screen	17.00	20.00	60			PVC; A: .5mm; Other
1		Annulus	Waterworm/Rounded	0.00	0.00				Graded; GS: 2-4mm
1		Annulus	Concrete	0.00	15.00	150			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
18.00	20.00	2.00		18.00					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	CONCRETE	Conglomerate	
0.20	1.00	0.80	FILL	Fill	
1.00	13.50	12.50	SANDSTONE YELLOW	Sandstone	
13.50	18.00	4.50	SANDSTONE BROWN/GREY	Sandstone	
18.00	20.00	2.00	SHALE GREY WEATHERED	Shale	

Remarks

*** End of GW110694 ***

NSW OFFICE OF WATER

Work Summary

GW110695

Licence :10BL603151

Work Type :Well
Work Status :
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 10.00 m
Completion Date :16-Jul-2009 Drilled Depth : 10.00 m

Contractor Name :Numac Drilling Services Pty Ltd
Driller :2070 TANT, Simon Benjamin

Assistant Driller's Name :

Property : - MOBIL DAPTO SERVICE STATION
GWMA : -
GW Zone : -

Standing Water Level : 5.00 m
Salinity :
Yield :

Site Details

Site Chosen By
Geologist

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
2//570982
2 570982

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6180333
Easting :297238
Latitude (S) :34° 29' 55"
Longitude (E) :150° 47' 30"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	10.00	150			Rotary Air
1	1	Casing	P.V.C.	0.00	7.00	60			Other; Seated on Bottom; Cap
1	1	Opening	Screen	7.00	10.00	60			PVC; A: .5mm; Other
1		Annulus	Concrete	0.00	5.00	150			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
9.00	10.00	1.00		5.00					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.18	0.18	CONCRETE	Conglomerate	
0.18	1.00	0.82	FILL	Fill	
1.00	7.00	6.00	SANDSTONE YELLOW	Sandstone	
7.00	9.00	2.00	SANDSTONE GREY	Sandstone	
9.00	10.00	1.00	SHALE WEATHERED GREY	Shale	

Remarks

*** End of GW110695 ***

NSW OFFICE OF WATER

Work Summary

GW110696

Licence :10BL603151

Work Type :Well
Work Status :
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 11.00 m
Completion Date :15-Jul-2009 Drilled Depth : 11.00 m

Contractor Name :Numac Drilling Services Pty Ltd
Driller :2070 TANT, Simon Benjamin

Assistant Driller's Name :

Property : - MOBIL DAPTO SERVICE STATION
GWMA : -
GW Zone : -

Standing Water Level : 7.00 m
Salinity :
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
2//570982
2 570982

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6180307
Easting :297208

Latitude (S) :34° 29' 56"
Longitude (E) :150° 47' 28"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	11.00	150			Rotary Air
1	1	Casing	P.V.C.	0.00	8.00	60			Other; Seated on Bottom; Cap
1	1	Opening	Screen	8.00	11.00	60			PVC; A: .5mm; Other
1		Annulus	Waterworm/Rounded	0.00	0.00				Graded; GS: 2-4mm
1		Annulus	Concrete	0.00	6.00	150			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
10.00	11.00	1.00		7.00					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.17	0.17	CONCRETE	Conglomerate	
0.17	1.00	0.83	FILL	Fill	
1.00	7.00	6.00	YELLOW SANDSTONE	Sandstone	
7.00	10.00	3.00	GREY DADRK BROWN SANDSTONE	Sandstone	
10.00	11.00	1.00	SHALE, WEATHERED GREY	Shale	

Remarks

*** End of GW110696 ***

NSW OFFICE OF WATER

Work Summary

GW110697

Licence :10BL603152

Work Type :Well
Work Status :
Construct. Method :Other
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 8.00 m
Completion Date :02-Jun-2009 Drilled Depth : 8.00 m

Contractor Name :Numac Drilling Services Pty Ltd
Driller :2070 TANT, Simon Benjamin

Assistant Driller's Name :

Property : - MOBIL BERKELEY SERVICE STATION
GWMA : -
GW Zone : -

Standing Water Level : 7.10 m
Salinity :
Yield :

Site Details

Site Chosen By
Other

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
1571//214519
1571 214519

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6182862
Easting :301569

Latitude (S) :34° 28' 36"
Longitude (E) :150° 50' 21"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	150			Other
1	1	Casing	P.V.C.	0.00	3.00	60			Other; Seated
1	1	Opening	Screen	3.00	8.00	60			PVC; A: .5mm; Other
1		Annulus	Waterworm/Rounded	0.00	0.00				Graded; GS: 2-4mm
1		Annulus	Concrete	0.00	1.00	150			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.00	8.00	1.00		7.10					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.18	0.18	CONCRETE	Conglomerate	
0.18	1.00	0.82	FILL	Fill	
1.00	3.00	2.00	CLAY DARK BROWN	Clay Loam	
3.00	7.00	4.00	CLAY LIGHT BROWN	Clay Loam	
7.00	8.00	1.00	CLAY DARK AND SATURATED GRAVELS	Clay Loam	

Remarks

*** End of GW110697 ***

NSW OFFICE OF WATER

Work Summary

GW110698

Licence :10BL603152

Work Type :Well
Work Status :
Construct. Method :Other
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 8.00 m
Completion Date :02-Jun-2009 Drilled Depth : 8.00 m

Contractor Name :Numac Drilling Services Pty Ltd
Driller :2070 TANT, Simon Benjamin

Assistant Driller's Name :

Property : - MOBIL BERKELEY SERVICE STATION
GWMA : -
GW Zone : -

Standing Water Level : 7.10 m
Salinity :
Yield :

Site Details

Site Chosen By
Other

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
1571//214519
1571 214519

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6182856
Easting :301558

Latitude (S) :34° 28' 36"
Longitude (E) :150° 50' 21"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	150			Other
1	1	Casing	P.V.C.	0.00	3.00	60			Other; Seated on Bottom
1	1	Opening	Screen	3.00	8.00	60			PVC; A: .5mm; Other
1		Annulus	Waterworm/Rounded	0.00	0.00				Graded; GS: 2-4mm
1		Annulus	Concrete	0.00	1.00	150			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.00	8.00	1.00		7.10					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.18	0.18	CONCRETE	Conglomerate	
0.18	1.00	0.82	FILL	Fill	
1.00	3.00	2.00	CLAY DARK BROWN	Clay Loam	
3.00	7.00	4.00	CLAY LIGHT BROWN	Clay Loam	
7.00	8.00	1.00	CLAY DARK AND SATURATED GRAVELS	Clay Loam	

Remarks

*** End of GW110698 ***

NSW OFFICE OF WATER

Work Summary

GW110699

Licence :10BL603152

Work Type :Well
Work Status :
Construct. Method :Other
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 8.00 m
Completion Date :02-Jun-2009 Drilled Depth : 8.00 m

Contractor Name :Numac Drilling Services Pty Ltd
Driller :2070 TANT, Simon Benjamin

Assistant Driller's Name :

Property : - MOBIL BERKELEY SERVICE STATION
GWMA : -
GW Zone : -

Standing Water Level : 7.10 m
Salinity :
Yield :

Site Details

Site Chosen By
Other

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
KEMBLA
KEMBLA

Portion/Lot DP
1571//214519
1571 214519

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6182843
Easting :301563

Latitude (S) :34° 28' 37"
Longitude (E) :150° 50' 21"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	8.00	150			Other
1	1	Casing	P.V.C.	0.00	3.00	60			Other; Seated on Bottom
1	1	Opening	Screen	3.00	8.00	60			PVC; A: .5mm; Other
1		Annulus	Waterworm/Rounded	0.00	0.00				Graded; GS: 2-4mm
1		Annulus	Concrete	0.00	1.00	150			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.00	8.00	1.00		7.10					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.18	0.18	CONCRETE	Conglomerate	
0.18	1.00	0.82	FILL	Fill	
1.00	3.00	2.00	CLAY DARK BROWN	Clay Loam	
3.00	7.00	4.00	CLAY LIGHT BROWN	Clay Loam	
7.00	8.00	1.00	CLAY DRY AND SATURATED GRAVELS	Clay Loam	

Remarks

*** End of GW110699 ***

NSW OFFICE OF WATER

Work Summary

GW110875

Licence :10BL601604

Work Type :Bore
Work Status :
Construct. Method :
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 60.00 m
Completion Date :01-Jan-2007 Drilled Depth :

Contractor Name :Britt's Water Solutions
Driller :400 UNKNOWN, Unkown

Assistant Driller's Name :

Property : - BRAMBLETT
GWMA : -
GW Zone : -

Standing Water Level : 2.00 m
Salinity :
Yield : 2.50 L/s

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
CALDERWOOD
CALDERWOOD

Portion/Lot DP
6//22388
6 22388

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6178978
Easting :296266

Latitude (S) :34° 30' 39"
Longitude (E) :150° 46' 50"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Steel	0.00	0.00	50			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW110875 ***

NSW OFFICE OF WATER

Work Summary

GW111018

Licence :10BL601379

Work Type :Bore

Work Status :

Construct. Method :Down Hole Hammer

Owner Type :Private

Authorised Purpose(s)
IRRIGATION

Intended Purpose(s)
IRRIGATION

Commenced Date : Final Depth : 66.00 m

Completion Date :01-Jan-2004 Drilled Depth : 12.60 m

Contractor Name :Highland Drilling Pty Ltd

Driller :1771 DELAMONT, Brett

Assistant Driller's Name :

Property : - LEGHISSA

GWMA : -

GW Zone : -

Standing Water Level : 5.00 m
Salinity : 530.00 mg/L
Yield : 0.55 L/s

Site Details

Site Chosen By

Client

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

JAMBEROO

CALDERWOOD

Portion/Lot DP

11 284001

11 248001

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

CMA Map :

Grid Zone :

Scale :

Elevation :

Elevation Source :

Northing :6172763

Easting :294724

Latitude (S) :34° 33' 59"

Longitude (E) :150° 45' 45"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	13.00	254			Down Hole Hammer
1		Hole	Hole	13.00	37.00	200			Down Hole Hammer
1		Hole	Hole	37.00	66.00	165			Down Hole Hammer
1	1	Casing	Steel	0.00	13.00	218			Welded; Driven into Hole
1	1	Casing	PVC Class 9	0.00	37.00	160			Screwed and Glued; Driven into Hole
1	1	Opening	Slots - Diagonal	18.00	22.00	160			PVC Class 9; Casing - Machine Slotted; SL: 4mm; A: 2mm
1	1	Opening	Slots - Diagonal	25.00	37.00				SL: 12mm; A: 2mm
1		Annulus	Waterworn/Rounded	0.00	0.00				Graded; GS: 5-7mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.00	12.00	1.00		5.00		0.10		0.50	130.00
31.00	32.00	1.00				0.10		0.50	130.00
41.00	42.00	1.00				0.55		0.50	530.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	2.00	2.00	CLAY/TOPSOIL	Clay	
2.00	6.00	4.00	SAND GREY	Sand Grains (Lithic)	
6.00	12.60	6.60	RIVER ROCK, BROWKEN BASALT	Rock	

Remarks

Previous Lic No:10BL165494

*** End of GW111018 ***

NSW OFFICE OF WATER

Work Summary

GW111074

Licence :10BL604129

Work Type :Bore

Work Status :

Construct. Method :Rotary Air

Owner Type :Private

Authorised Purpose(s)
INDUSTRIAL

Intended Purpose(s)
INDUSTRIAL

Commenced Date : Final Depth : 114.00 m

Completion Date :29-Aug-2007 Drilled Depth : 114.00 m

Contractor Name :Britt's Water Solutions

Driller :1923 BRITT, Darren James

Assistant Driller's Name :

Property : - GRUBNIC

GWMA : -

GW Zone : -

Standing Water Level : 70.00 m
Salinity : 1,100.00 mg/L
Yield : 0.06 L/s

Site Details

Site Chosen By

Diviner

County

Form A :CAMDEN

Licensed :CAMDEN

Parish

CALDERWOOD

CALDERWOOD

Portion/Lot DP

4 22388

4 22388

Region :10 - SYDNEY SOUTH COAST

River Basin :

Area / District :

CMA Map :

Grid Zone :

Scale :

Elevation :

Elevation Source :

Northing :6178900

Easting :296134

Latitude (S) :34° 30' 41"

Longitude (E) :150° 46' 45"

GS Map :

MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	18.00	200			Rotary Air
1		Hole	Hole	18.00	114.00	154			Rotary Air
1	1	Casing	PVC Class 9	-0.30	24.00	154			Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
90.00	90.10	0.10		70.00		0.06		1.00	1100.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.40	0.40	TOPSOIL	Topsoil	
0.40	8.00	7.60	CLAY	Clay	
8.00	9.00	1.00	SHALE WEATHERED	Shale	
9.00	114.00	105.00	SHALE BLUE	Shale	

Remarks

Previous Lic No:10BL601814

*** End of GW111074 ***

*** End of Report ***

Date/Time :09-Feb-2011 1:54 PM
 User :VMARTIN
 Report :RMGW001D.QRP
 Executable :S:\G5\PROD32\Ground.exe
 Exe Date :21-Apr-2010
 System :Groundwater
 Database :Edbp



NSW OFFICE OF WATER Work Summary

GW013399

Converted From HYDSYS

Licence : 10BL005800			
Work Type : Bore		Authorised Purpose(s)	Intended Purpose(s)
Work Status : (Unknown)		STOCK	STOCK
Construct. Method : Cable Tool			
Owner Type : Private			
Commenced Date :		Final Depth :	18.20 m
Completion Date : 01-Dec-1946		Drilled Depth :	0.00
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - LAKE VIEW		Standing Water Level :	
GWMA : 603 - SYDNEY BASIN		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A : CAMDEN	TERRAGONG	3
		Licensed : CAMDEN	TERRAGONG	1 751290
Region : 10 - SYDNEY SOUTH COAST		CMA Map : 9028-1N		ALBION PARK
River Basin : 214 - WOLLONGONG COAST		Grid Zone : 56/1		Scale : 1:25,000
Area / District :				
Elevation :		Northing : 6172143		Latitude (S) : 34° 34' 23"
Elevation Source : (Unknown)		Easting : 300542		Longitude (E) : 150° 49' 32"
GS Map : 0075D3		MGA Zone : 56	Coordinate Source : GD.,ACC.MAP	

Construction 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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	-0.30	5.70	152			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
18.20	18.20	0.00	(Unknown)		1.80	0.38			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW013399 ***

NSW OFFICE OF WATER

Work Summary

GW017565

Converted From HYDSYS

Licence :10BL009342

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Cable Tool
Owner Type :Private

Authorised Purpose(s)
IRRIGATION
STOCK

Intended Purpose(s)
IRRIGATION

Commenced Date : Final Depth : 20.40 m
Completion Date :01-Apr-1959 Drilled Depth : 20.40 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - STONEY CREEK
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A :CAMDEN	JAMBEROO	3
	Licensed :CAMDEN	JAMBEROO	805 1016806
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N	ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6170249	Latitude (S) :34° 35' 22"
Elevation Source :(Unknown)		Easting :297065	Longitude (E) :150° 47' 14"
GS Map :0075D3	MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	3.90	152			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
7.90	8.20	0.30	Fractured	6.40					(Unknown)
15.50	19.10	3.60	Fractured	6.40					(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Topsoil	Topsoil	
0.30	1.82	1.52	Clay Yellow	Clay	
1.82	6.09	4.27	Ironstone	Ironstone	
6.09	7.62	1.53	Shale	Shale	
7.62	19.20	11.58	Shale Black Water Supply	Shale	
19.20	20.42	1.22	Sandstone Hard	Sandstone	

Remarks

*** End of GW017565 ***

NSW OFFICE OF WATER

Work Summary

GW017620

Converted From HYDSYS

Licence :10BL009799		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore		STOCK	STOCK
Work Status :(Unknown)			
Construct. Method :Cable Tool			
Owner Type :Private			
Commenced Date :	Final Depth :	43.80 m	
Completion Date :01-Sep-1959	Drilled Depth :	43.90 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - HILLVIEW		Standing Water Level :	
GWMA :603 - SYDNEY BASIN		Salinity :	Good
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	JAMBEROO	2
		Licensed :CAMDEN	JAMBEROO	25 751274
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N		ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1		Scale :1:25,000
Area / District :				
Elevation :		Northing :6170456		Latitude (S) :34° 35' 13"
Elevation Source :(Unknown)		Easting :293873		Longitude (E) :150° 45' 9"
GS Map :0075D3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers									
H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.70	8.70	152			Driven into Hole
1	1	Opening	Slots	4.20	4.80	152		1	SL: 0mm; A: 0mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
4.20	4.80	0.60	Fractured	1.50		0.19			Good
38.40	39.60	1.20	Fractured			0.25			Good

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.60	0.60	Topsoil	Topsoil	
0.60	2.74	2.14	Boulders	Boulders	
2.74	3.96	1.22	Marl Yellow	Marl	
3.96	4.26	0.30	Sandstone Yellow	Sandstone	
4.26	4.87	0.61	Shale Soft Water Supply	Shale	
4.87	6.09	1.22	Shale Hard	Shale	
6.09	6.70	0.61	Boulders	Boulders	
6.70	43.89	37.19	Rock Water Supply	Rock	

Remarks

*** End of GW017620 ***

NSW OFFICE OF WATER

Work Summary

GW017976

Converted From HYDSYS

Licence :10BL010066		Authorised Purpose(s)	Intended Purpose(s)
Work Type :Bore open thru rock		STOCK	STOCK
Work Status :(Unknown)			
Construct. Method :Cable Tool			
Owner Type :Private			
Commenced Date :	Final Depth :	18.80 m	
Completion Date :01-May-1959	Drilled Depth :	18.90 m	
Contractor Name :			
Driller :			
Assistant Driller's Name :			
Property : - YELLOW ROCK		Standing Water Level :	
GWMA :603 - SYDNEY BASIN		Salinity :	(Unknown)
GW Zone : -		Yield :	

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	JAMBEROO	2
		Licensed :CAMDEN	JAMBEROO	PT 2
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N		ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1		Scale :1:25,000
Area / District :				
Elevation :		Northing :6170754		Latitude (S) :34° 35' 3"
Elevation Source :(Unknown)		Easting :293408		Longitude (E) :150° 44' 51"
GS Map :0075C3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	(Unknown)	0.00	13.40	127			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
17.60	17.90	0.30	Fractured	9.10		0.63			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	11.88	11.88	Clay Stones	Clay	
11.88	15.24	3.36	Rock Volcanic	Rock	
15.24	18.89	3.65	Basalt Water Supply	Basalt	

Remarks

*** End of GW017976 ***

NSW OFFICE OF WATER

Work Summary

GW018167

Converted From HYDSYS

Licence :10BL010903		
Work Type :Bore	Authorised Purpose(s) STOCK	Intended Purpose(s) STOCK
Work Status :Supply Obtained		
Construct. Method :Cable Tool		
Owner Type :Private		
Commenced Date :	Final Depth :	
Completion Date :	Drilled Depth :	
Contractor Name :		
Driller :		
Assistant Driller's Name :		
Property : - N/A	Standing Water Level :	
GWMA :603 - SYDNEY BASIN	Salinity :	Brackish
GW Zone : -	Yield :	

Site Details

Site Chosen By	County Form A :CAMDEN Licensed :CAMDEN	Parish TERRAGONG TERRAGONG	Portion/Lot DP 413//776473 PT 3
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N	ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1	Scale :1:25,000
Area / District :			
Elevation :		Northing :6171983	Latitude (S) :34° 34' 27"
Elevation Source :(Unknown)		Easting :298862	Longitude (E) :150° 48' 26"
GS Map :0075D3	MGA Zone :56	Coordinate Source :PR.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Updated details as per existing data.

*** End of GW018167 ***

NSW OFFICE OF WATER

Work Summary

GW023486

Converted From HYDSYS

Licence :10BL017362			Authorised Purpose(s) IRRIGATION STOCK		Intended Purpose(s) IRRIGATION
Work Type :Bore open thru rock					
Work Status :(Unknown)					
Construct. Method :Rotary					
Owner Type :Private					
Commenced Date :	Final Depth :	36.50 m			
Completion Date :01-Oct-1965	Drilled Depth :	0.00			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - MT TERRY			Standing Water Level :		
GWMA :603 - SYDNEY BASIN			Salinity :		1001-3000 ppm
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	TERRAGONG	21
		Licensed :CAMDEN	TERRAGONG	21
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-1N		ALBION PARK
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1		Scale :1:25,000
Area / District :				
Elevation :		Northing :6169842		Latitude (S) :34° 35' 35"
Elevation Source :(Unknown)		Easting :296768		Longitude (E) :150° 47' 2"
GS Map :0075D3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.40	8.70	152			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
12.10	30.30	18.20	(Unknown)	1.20		5.05			1001-3000 ppm

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

*** End of GW023486 ***

NSW OFFICE OF WATER

Work Summary

GW024044

Converted From HYDSYS

Licence :10BL017375

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Rotary
Owner Type :Private

Authorised Purpose(s)
IRRIGATION
STOCK

Intended Purpose(s)
GENERAL USE

Commenced Date : Final Depth : 37.10 m
Completion Date :01-Nov-1965 Drilled Depth : 37.20 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - N/A
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity : invalid code
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
JAMBEROO
JAMBEROO

Portion/Lot DP
3
2265 842796

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9028-1N
Grid Zone :56/1

ALBION PARK
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6170540
Easting :296293

Latitude (S) :34° 35' 12"
Longitude (E) :150° 46' 44"

GS Map :0075D3 MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.40	10.20	152			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
12.10	12.10	0.00	Fractured			0.08			(Unknown)
31.30	31.30	0.00	Fractured			0.10			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	Soil	Soil	
0.30	3.04	2.74	Clay	Clay	
3.04	37.18	34.14	Shale Black Water Supply	Shale	

Remarks

*** End of GW024044 ***

NSW OFFICE OF WATER

Work Summary

GW024156

Converted From HYDSYS

Licence :10BL018349			Authorised Purpose(s)		Intended Purpose(s)
Work Type :Bore open thru rock			FARMING		STOCK
Work Status :(Unknown)			STOCK		
Construct. Method :Cable Tool					
Owner Type :Private					
Commenced Date :	Final Depth :	53.00 m			
Completion Date :	Drilled Depth :	53.00 m			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - N/A			Standing Water Level :		
GWMA : -			Salinity :		Fair
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	JAMBEROO	3
		Licensed :CAMDEN	JAMBEROO	LOT18 DP111172
Region :10 - SYDNEY SOUTH COAST			CMA Map :9028-1N	ALBION PARK
River Basin :214 - WOLLONGONG COAST			Grid Zone :56/1	Scale :1:25,000
Area / District :				
Elevation :			Northing :6170441	Latitude (S) :34° 35' 16"
Elevation Source :(Unknown)			Easting :297392	Longitude (E) :150° 47' 27"
GS Map :0075D3	MGA Zone :56		Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Threaded Steel	-0.30	11.80	152			Suspended in Clamps

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
36.20	36.30	0.10	Fractured	5.40		0.38			Fair

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.82	1.82	Clay	Clay	
1.82	5.48	3.66	Rock Decomposed	Rock	
5.48	12.80	7.32	Basalt	Basalt	
12.80	17.37	4.57	Shale	Shale	
17.37	53.03	35.66	Basalt Water Supply	Basalt	

Remarks

*** End of GW024156 ***

NSW OFFICE OF WATER

Work Summary

GW038231

Converted From HYDSYS

Licence :10BL028688

Work Type :Bore open thru rock
Work Status :(Unknown)
Construct. Method :Rotary
Owner Type :Private

Authorised Purpose(s)
DOMESTIC
FARMING
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 60.90 m
Completion Date :01-Jun-1974 Drilled Depth : 61.00 m

Contractor Name :
Driller :
Assistant Driller's Name :

Property : - TARA
GWMA :603 - SYDNEY BASIN
GW Zone : -

Standing Water Level :
Salinity : 3001-7000 ppm
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
JAMBEROO
JAMBEROO

Portion/Lot DP
3
47 751274

Region :10 - SYDNEY SOUTH COAST
River Basin :214 - WOLLONGONG COAST
Area / District :

CMA Map :9028-1N
Grid Zone :56/1

ALBION PARK
Scale :1:25,000

Elevation :
Elevation Source :(Unknown)

Northing :6169867
Easting :296538

Latitude (S) :34° 35' 34"
Longitude (E) :150° 46' 53"

GS Map :0075D3

MGA Zone :56

Coordinate Source :GD.,ACC.MAP

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Welded Steel	-0.30	10.00	152			Driven into Hole
1	1	Casing	Welded Steel	-0.10	2.00	203			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
14.90	15.20	0.30	Fractured	9.10		0.23			(Unknown)
42.60	43.80	1.20	Fractured	4.50		0.30			(Unknown)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.45	0.45	Soil	Soil	
0.45	1.82	1.37	Boulders Large	Boulders	
1.82	9.14	7.32	Clay Boulder	Clay	
9.14	14.93	5.79	Shale Dark Grey Sandy Very Hard	Shale	
14.93	15.24	0.31	Volcanic Ash Light Grey White Soft	Volcanic Ash	Water Supply
15.24	42.67	27.43	Shale Dark Grey Sandy Very Hard	Shale	
42.67	43.89	1.22	Volcanic Ash Light Grey White Soft	Volcanic Ash	Water Supply
43.89	60.96	17.07	Shale Dark Grey Sandy Very Hard	Shale	

Remarks

*** End of GW038231 ***

NSW OFFICE OF WATER

Work Summary

GW062022

Converted From HYDSYS

Licence :10BL130534			Authorised Purpose(s) DOMESTIC STOCK		Intended Purpose(s) INDUSTRIAL
Work Type :Excavation					
Work Status :Supply Obtained					
Construct. Method :< 100 sq.m.					
Owner Type :Private					
Commenced Date :	Final Depth :	1.00 m			
Completion Date :	Drilled Depth :	1.00 m			
Contractor Name :					
Driller :					
Assistant Driller's Name :					
Property : - N/A			Standing Water Level :		
GWMA : -			Salinity :		(Unknown)
GW Zone : -			Yield :		

Site Details

Site Chosen By		County	Parish	Portion/Lot DP
		Form A :CAMDEN	JAMBEROO	68
		Licensed :CAMDEN	JAMBEROO	68
Region :10 - SYDNEY SOUTH COAST		CMA Map :9028-4N		ROBERTSON
River Basin :214 - WOLLONGONG COAST		Grid Zone :56/1		Scale :1:25,000
Area / District :				
Elevation :		Northing :6170032		Latitude (S) :34° 35' 22"
Elevation Source :(Unknown)		Easting :287433		Longitude (E) :150° 40' 56"
GS Map :0075C3		MGA Zone :56	Coordinate Source :GD.,ACC.MAP	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m) To (m) Thickness(m) Drillers Description Geological Material Comments

0.00 1.00 1.00 Topsoil

Topsoil

Remarks

DUG FROM SWAMP

*** End of GW062022 ***

NSW OFFICE OF WATER

Work Summary

GW068181

Licence :10BL165582

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Other
Owner Type :

Authorised Purpose(s)
TEST BORE

Intended Purpose(s)
TEST BORE

Commenced Date : Final Depth : 204.00 m
Completion Date :22-Feb-1992 Drilled Depth : 204.00 m

Contractor Name :
Driller : RITCHIE, ROGER
Assistant Driller's Name :

Property : - CROOME RD SPORTING COMPLEX
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
JAMBEROO
JAMBEROO

Portion/Lot DP
2 605565
2 605565

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6171003
Easting :296933

Latitude (S) :34° 34' 58"
Longitude (E) :150° 47' 10"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	204.00	168			Rotary Air
1	1	Casing	Steel	-0.70	21.00	168	160.2		

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
204.00	204.00	0.00		0.50	204.00	0.10	204.00		

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	TOP SOIL		
1.00	3.00	2.00	CLAY		
3.00	21.00	18.00	DECOMPOSED BASALT		
21.00	204.00	183.00	MUDSTONE OR SILTSTONE		

Remarks

Previous Lic No:10BL145465

*** End of GW068181 ***

NSW OFFICE OF WATER

Work Summary

GW069123

Converted From HYDSYS

Licence :		Authorised Purpose(s)	Intended Purpose(s)
Work Type : Bore open thru rock			DOMESTIC
Work Status : (Unknown)			STOCK
Construct. Method : Rotary Air			
Owner Type : Private			
Commenced Date :	Final Depth :	36.00 m	
Completion Date : 01-Mar-1991	Drilled Depth :	36.00 m	
Contractor Name :			
Driller : 1575		WINDLEY, Phillip Arthur	
Assistant Driller's Name :			
Property :		Standing Water Level :	
GWMA : -		Salinity :	S.Salty
GW Zone : -		Yield :	

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
	Form A : CAMDEN	JAMBEROO	L1 DP562326
	Licensed :		
Region : 10 - SYDNEY SOUTH COAST		CMA Map :	
River Basin : 214 - WOLLONGONG COAST		Grid Zone :	Scale :
Area / District :			
Elevation :	0.00	Northing : 6170015	Latitude (S) : 34° 35' 30"
Elevation Source :		Easting : 297516	Longitude (E) : 150° 47' 32"
GS Map :	MGA Zone : 56	Coordinate Source : PR.,ACC.GIS	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	P.V.C.	0.00	7.00	160			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
30.00	36.00	6.00	Fractured	24.00		1.80			S.Salty

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	7.00	7.00	Soils & Clay	Soil	
7.00	36.00	29.00		Shale	

Remarks

*** End of GW069123 ***

NSW OFFICE OF WATER

Work Summary

GW100090

Licence :10BL143725

Work Type :Bore
Work Status :(Unknown)
Construct. Method :
Owner Type :

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)

Commenced Date : Final Depth : 66.00 m
Completion Date :26-Jul-1991 Drilled Depth : 66.00 m

Contractor Name :
Driller :1388 RITCHIE, Roger C.
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level : 0.30 m
Salinity :
Yield : 0.10 L/s

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
100//717430
PT29

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6169979
Easting :301059

Latitude (S) :34° 35' 34"
Longitude (E) :150° 49' 51"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1	1	Casing	Steel	0.00	3.00	168			Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	3.00	3.00	SOIL		
3.00	21.00	18.00	BASALT		
21.00	31.00	10.00	TUFF		
31.00	54.00	23.00	BASALT		
54.00	66.00	12.00	TUFF		

Remarks

*** End of GW100090 ***

NSW OFFICE OF WATER

Work Summary

GW100607

Licence :10BL157647

Work Type :Bore
Work Status :(Unknown)
Construct. Method :(Unknown)
Owner Type :

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date :
Completion Date :01-Jan-1996

Final Depth : 10.00 m
Drilled Depth :

Contractor Name :
Driller : BLAIR, JASON
Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
100//717430
1 571406

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6169978
Easting :301060

Latitude (S) :34° 35' 34"
Longitude (E) :150° 49' 51"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	10.00	102			(Unknown)
1	1	Casing	P.V.C.	0.00	10.00	102			

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
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Remarks

Form A Remarks:

REMARKS:
SAMPLING ONLY BORE

CONTACT JOHN CLAYTON (BORAL QUARRIES)

042 377006

*** End of GW100607 ***

NSW OFFICE OF WATER

Work Summary

GW103586

Licence :10BL159609

Work Type :Bore
Work Status :(Unknown)
Construct. Method :Rotary
Owner Type :

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 90.00 m
Completion Date :21-Nov-2000 Drilled Depth : 90.00 m

Contractor Name :Southern Tablelands Drilling
Driller :1603 RITCHIE, Roger Charles

Assistant Driller's Name :

Property : - N/A
GWMA : -
GW Zone : -

Standing Water Level :
Salinity : 900.00 mg/L
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
JAMBEROO
JAMBEROO

Portion/Lot DP
71//629605
71 629605

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation : Northing :6170742
Elevation Source : Easting :291488

Latitude (S) :34° 35' 2"
Longitude (E) :150° 43' 36"

GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	18.00	200			Down Hole Hammer
1		Hole	Hole	18.00	90.00	165			Down Hole Hammer
1	1	Casing	P.V.C.	-0.50	18.00	160	146		

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
5.00	6.00	1.00		5.00		0.60	6.00	0.50	900.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	TOPSOIL/CLAY	Topsoil	
1.00	4.00	3.00	CLAY/IRONSTONE	Clay	
4.00	7.00	3.00	GREY SILTSTONE	Siltstone	
7.00	90.00	83.00	SHALE	Shale	

Remarks

*** End of GW103586 ***

NSW OFFICE OF WATER

Work Summary

GW105468

Licence :10BL162220

Work Type :Bore
Work Status :
Construct. Method :Rotary
Owner Type :

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 48.00 m
Completion Date :23-Oct-2003 Drilled Depth : 48.00 m

Contractor Name :Highland Drilling Pty Ltd
Driller :1771 DELAMONT, Brett

Assistant Driller's Name :

Property : - FRIZELL
GWMA : -
GW Zone : -

Standing Water Level : 9.50 m
Salinity : 600.00 mg/L
Yield : 9.09 L/s

Site Details

Site Chosen By

Client

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
JAMBEROO
JAMBEROO

Portion/Lot DP
27 1046042
27 1046042

Region :10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6169592
Easting :294805

Latitude (S) :34° 35' 42"
Longitude (E) :150° 45' 45"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	25.00	200			Down Hole Hammer
1		Hole	Hole	25.00	48.00	165			Down Hole Hammer
1	1	Casing	PVC Class 9	0.00	25.00	160			C: 0-9m; Screwed and Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
39.00	40.00	1.00		9.50		9.09	42.00	0.50	600.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	6.00	6.00	DECOMPOSED BASALT	Invalid Code	
6.00	48.00	42.00	SILTSTONE HARD	Siltstone	

Remarks

*** End of GW105468 ***

NSW OFFICE OF WATER

Work Summary

GW107966

Licence :10BL600259

Work Type :Bore
Work Status :
Construct. Method :Rotary
Owner Type :

Authorised Purpose(s)
DOMESTIC
STOCK

Intended Purpose(s)
DOMESTIC
STOCK

Commenced Date : Final Depth : 186.00 m
Completion Date :28-Apr-2005 Drilled Depth : 186.00 m

Contractor Name :Intertec Drilling Services
Driller :1783 CRUMP, William

Assistant Driller's Name :

Property : - LING YEN MOUNTAIN TEMPLE
GWMA : -
GW Zone : -

Standing Water Level : 34.50 m
Salinity : 3,250.00 mg/L
Yield : 0.05 L/s

Site Details

Site Chosen By
Client

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
JAMBEROO
JAMBEROO

Portion/Lot DP
1 513042
1 513042

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6170106
Easting :291297
Latitude (S) :34° 35' 23"
Longitude (E) :150° 43' 28"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	2.80	205			Down Hole Hammer
1		Hole	Hole	2.80	8.50	205			Down Hole Hammer
1		Hole	Hole	8.50	120.00	164			Down Hole Hammer
1		Hole	Hole	120.00	186.00	155			Down Hole Hammer
1	1	Casing	Steel	-0.30	8.70	155	145.4		C: 0-8.7m; Welded; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
35.10	35.20	0.10				0.30	36.00	0.25	3500.00
180.00	181.00	1.00		34.50		0.05	186.00	0.25	3250.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	CLAY BROWN	Clay	
1.00	2.50	1.50	CLAY SANDY	Clay	
2.50	6.50	4.00	BASALT FRACTURED	Basalt	
6.50	35.10	28.60	BASALT FRESH	Basalt	
35.10	35.20	0.10	BASALT FRACTURED	Basalt	
35.20	46.80	11.60	SANDSTONE FINE GRAIN, PALE, , GREY	Sandstone	
46.80	47.00	0.20	SILTSTONE	Siltstone	
47.00	55.70	8.70	SANDSTONE, GRAIN HARD	Sandstone	
55.70	61.00	5.30	SANDSTONE D/GREY	Sandstone	
61.00	92.00	31.00	SANDSTONE F/GRAIN, PALE, GREY, HARD	Sandstone	
92.00	180.00	88.00	SANDSTONE, M/GRAIN, GREEN, GREY	Sandstone	
180.00	181.00	1.00	SANDSTONE GLOMERATE	Sandstone	
181.00	186.00	5.00	BASALT, FRESH, HARD	Basalt	

Remarks

Previous Lic No:10BL164946

*** End of GW107966 ***

NSW OFFICE OF WATER

Work Summary

GW109000

Licence :10BL601045			
Work Type :Bore		Authorised Purpose(s)	Intended Purpose(s)
Work Status :		DOMESTIC	DOMESTIC
Construct. Method :		STOCK	STOCK
Owner Type :Private			
Commenced Date :		Final Depth :	78.00 m
Completion Date :09-Jul-2008		Drilled Depth :	
Contractor Name :Britt's Water Solutions			
Driller :1923		BRITT, Darren James	
Assistant Driller's Name :			
Property : - CUDA		Standing Water Level :	27.00 m
GWMA : -		Salinity :	2,500.00 mg/L Salty
GW Zone : -		Yield :	0.77 L/s

Site Details

Site Chosen By	County	Parish	Portion/Lot DP
Diviner	Form A :CAMDEN	TERRAGONG	32//858971
	Licensed :CAMDEN	TERRAGONG	32 858971
Region :10 - SYDNEY SOUTH COAST	CMA Map :		
River Basin :	Grid Zone :		Scale :
Area / District :			
Elevation :	Northing :6171519		Latitude (S) :34° 34' 44"
Elevation Source :	Easting :301148		Longitude (E) :150° 49' 55"
GS Map :	MGA Zone :56	Coordinate Source :	

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H P Component Type From (m) To (m) OD (mm) ID (mm) Interval Details

(No Construction Details Found)

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m) To (m) Thickness(m) Drillers Description Geological Material Comments

Remarks

*** End of GW109000 ***

NSW OFFICE OF WATER

Work Summary

GW110090

Licence :10BL165019

Work Type :Bore
Work Status :
Construct. Method :Auger
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 11.20 m
Completion Date :27-Sep-2004 Drilled Depth : 11.20 m

Contractor Name :Macquarie Drilling
Driller :400 UNKNOWN, Unkown

Assistant Driller's Name :

Property : - CANDA
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By
Hydrogeologist

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
1//858245
1 858245

Region :10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6170407
Easting :300326

Latitude (S) :34° 35' 20"
Longitude (E) :150° 49' 22"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	0.65	120			Auger
1		Hole	Hole	0.65	11.20	80			Rotary Air
1	1	Casing	P.V.C.	0.00	1.00	80			PC: 0-1m; Screwed; Seated on Bottom
1	1	Casing	P.V.C.	0.00	5.20	50			PC: .1-.4m; Screwed; Seated on Bottom
1	1	Opening	Screen	5.20	11.00	50			PVC; Screwed
1		Annulus	Waterworm/Rounded	4.50	11.20				Graded; GS: 3-10mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.70	0.70	CLAYEY SILT	Clayey Sand	
0.70	11.20	10.50	VOLCANIC BEDROCK	Volcanic Ash	

Remarks

*** End of GW110090 ***

NSW OFFICE OF WATER

Work Summary

GW110091

Licence :10BL165019

Work Type :Bore
Work Status :
Construct. Method :Auger
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 25.00 m
Completion Date :27-Sep-2004 Drilled Depth : 25.00 m

Contractor Name :Macquarie Drilling
Driller :400 UNKNOWN, Unkown

Assistant Driller's Name :

Property : - CANDA
GWMA : -
GW Zone : -

Standing Water Level :
Salinity :
Yield :

Site Details

Site Chosen By
Hydrogeologist

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
1//858245
1 858245

Region :10 - SYDNEY SOUTH COAST

River Basin :
Area / District :

CMA Map :
Grid Zone :

Scale :

Elevation :
Elevation Source :

Northing :6170369
Easting :300333

Latitude (S) :34° 35' 21"
Longitude (E) :150° 49' 23"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	0.70	120			Auger
1		Hole	Hole	0.70	25.00	80			Rotary Air
1	1	Casing	P.V.C.	0.00	1.00	80			PC: 0-1m; Screwed; Seated on Bottom
1	1	Casing	P.V.C.	0.00	19.00	50			PC: 0-.4m; Screwed; Seated on Bottom
1	1	Opening	Screen	19.00	25.00	50			PVC; Screwed
1		Annulus	Waterworm/Rounded	18.30	25.00				Graded; GS: 3-10mm

Water Bearing Zones

From (m) To (m) Thickness (m) WBZ Type S.W.L. (m) D.D.L. (m) Yield (L/s) Hole Depth (m) Duration (hr) Salinity (mg/L)

(No Water Bearing Zone Details Found)

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.70	0.70	CLAYEY SILT	Clayey Sand	
0.70	14.50	13.80	BEDROCK	Bedrock	
14.50	25.00	10.50	SILTSTONE	Siltstone	

Remarks

*** End of GW110091 ***

NSW OFFICE OF WATER

Work Summary

GW110092

Licence :10BL165019

Work Type :Bore
Work Status :
Construct. Method :Auger
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 13.00 m
Completion Date :29-Sep-2004 Drilled Depth : 13.00 m

Contractor Name :Macquarie Drilling
Driller :400 UNKNOWN, Unkown

Assistant Driller's Name :

Property : - CANDA
GWMA : -
GW Zone : -

Standing Water Level : 11.90 m
Salinity : 1,120.00 mg/L
Yield :

Site Details

Site Chosen By
Hydrogeologist

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
1//858245
1 858245

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation : Northing :6170360
Elevation Source : Easting :300249

Latitude (S) :34° 35' 21"
Longitude (E) :150° 49' 19"

GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	1.40	120			Auger
1		Hole	Hole	1.40	13.00	80			Rotary Air
1	1	Casing	P.V.C.	0.00	0.10	80			PC: 0-1m; Screwed; Seated on Bottom
1	1	Casing	P.V.C.	0.00	7.00	50			PC: .1-.4m; Screwed; Seated on Bottom
1	1	Opening	Screen	7.00	13.00	50			PVC; Screwed
1		Annulus	Waterworm/Rounded	6.50	13.00				Graded; GS: 3-10mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
11.90	13.00	1.10		11.90					1120.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.15	0.15	CLAYEY SILT	Clayey Sand	
0.15	0.80	0.65	SILTY CLAY, HIGH PLASTICITY	Silty Clay	
0.80	1.60	0.80	SILTY CLAY, MEDIUM PLASTICITY	Silty Clay	
1.60	6.00	4.40	ANDERSITE WEATHERED	Andesite	
6.00	13.00	7.00	ANDERSITE BEDROCK	Andesite	

Remarks

*** End of GW110092 ***

NSW OFFICE OF WATER

Work Summary

GW110093

Licence :10BL165019

Work Type :Bore
Work Status :
Construct. Method :Auger
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 25.00 m
Completion Date :28-Sep-2005 Drilled Depth : 25.00 m

Contractor Name :Macquarie Drilling
Driller :400 UNKNOWN, Unkown

Assistant Driller's Name :

Property : - CANDA
GWMA : -
GW Zone : -

Standing Water Level : 18.30 m
Salinity :
Yield :

Site Details

Site Chosen By
Hydrogeologist

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
1//858245
1 858245

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation :
Elevation Source :

Northing :6170329
Easting :300251

Latitude (S) :34° 35' 22"
Longitude (E) :150° 49' 19"

GS Map : MGA Zone :56

Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	2.20	120			Auger
1		Hole	Hole	2.20	25.00	80			Rotary Air
1	1	Casing	P.V.C.	0.00	0.10	80			PC: 0-.1m; Screwed; Seated on Bottom
1	1	Casing	P.V.C.	0.00	19.00	50			PC: .1-.4m; Screwed; Seated on Bottom
1	1	Opening	Screen	19.00	25.00	50			PVC; Screwed
1		Annulus	Waterworm/Rounded	18.50	25.00				Graded; GS: 3-10mm

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
18.30	19.00	0.70		18.30					

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.15	0.15	CLAYEY SILT	Clayey Sand	
0.15	1.60	1.45	SILTY CLAY	Silty Clay	
1.60	6.00	4.40	WEATHERED ANDERSITE		
6.00	22.00	16.00	ANDERSITE BEDROCK	Andesite	
22.00	25.00	3.00	SILTSTONE	Siltstone	

Remarks

*** End of GW110093 ***

NSW OFFICE OF WATER

Work Summary

GW110094

Licence :10BL165019

Work Type :Bore
Work Status :
Construct. Method :Auger
Owner Type :Private

Authorised Purpose(s)
MONITORING BORE

Intended Purpose(s)
MONITORING BORE

Commenced Date : Final Depth : 20.00 m
Completion Date :29-Sep-2004 Drilled Depth :

Contractor Name :Macquarie Drilling
Driller :400 UNKNOWN, Unkown

Assistant Driller's Name :

Property : - CANDA
GWMA : -
GW Zone : -

Standing Water Level : 19.00 m
Salinity : 880.00 mg/L
Yield :

Site Details

Site Chosen By

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
1//858245
1 858245

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation : Northing :6170320
Elevation Source : Easting :300090

Latitude (S) :34° 35' 22"
Longitude (E) :150° 49' 13"

GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	1.20	120			Auger
1		Hole	Hole	1.20	20.00	80			Rotary Air
1	1	Casing	P.V.C.	0.00	1.00	80			PC: 0-1m; Screwed; Seated on Bottom
1	1	Casing	P.V.C.	0.00	14.00	50			PC: 0-.5m; Screwed; Seated on Bottom
1	1	Opening	Screen	14.00	20.00	50			PVC; Screwed

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
19.00	20.00	1.00		19.00					880.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.15	0.15	CLAYEY SILT		
0.15	1.15	1.00	SILTY CLAY		
1.15	4.10	2.95	WEATHERED ANDERSITE		
4.10	11.00	6.90	ANDERSITE BEDROCK		
11.00	20.00	9.00	SILTSTONE		

Remarks

*** End of GW110094 ***

NSW OFFICE OF WATER

Work Summary

GW110996

Licence :10BL603827

Work Type :Bore
Work Status :
Construct. Method :Rotary Air
Owner Type :Private

Authorised Purpose(s)
DOMESTIC

Intended Purpose(s)
DOMESTIC

Commenced Date : Final Depth : 36.00 m
Completion Date :13-Apr-2007 Drilled Depth : 36.00 m

Contractor Name :Britt's Water Solutions
Driller :1923 BRITT, Darren James

Assistant Driller's Name :

Property : - OAKFLATS PUBLIC SCHOOL
GWMA : -
GW Zone : -

Standing Water Level : 7.00 m
Salinity : 2,900.00 mg/L
Yield : 2.50 L/s

Site Details

Site Chosen By
Driller

County
Form A :CAMDEN
Licensed :CAMDEN

Parish
TERRAGONG
TERRAGONG

Portion/Lot DP
290 13638
290 13638

Region :10 - SYDNEY SOUTH COAST
River Basin :
Area / District :

CMA Map :
Grid Zone : Scale :

Elevation : Northing :6173285
Elevation Source : Easting :299857

Latitude (S) :34° 33' 46"
Longitude (E) :150° 49' 6"

GS Map : MGA Zone :56 Coordinate Source :

Construction

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;PL-Placement of Gravel Pack;PC-Pressure Cemented;S-Sump;CE-Centralisers

H	P	Component	Type	From (m)	To (m)	OD (mm)	ID (mm)	Interval	Details
1		Hole	Hole	0.00	18.00	200			Rotary Air
1		Hole	Hole	18.00	36.00	156			Rotary Air
1	1	Casing	PVC Class 6	-0.50	24.00	156			Glued; Driven into Hole

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
28.00	28.75	0.75		7.00		2.50		1.00	2900.00

Drillers Log

From (m)	To (m)	Thickness(m)	Drillers Description	Geological Material	Comments
0.00	0.30	0.30	TOPSOIL	Topsoil	
0.30	1.00	0.70	CLA BROWN PUGGY	Clay	
1.00	3.00	2.00	CLAY WHITE	Clay Loam	
3.00	12.50	9.50	SHALE WEATHERED	Shale	
12.50	36.00	23.50	SHALE BLUE	Shale	

Remarks

Previous lic No:10BL600762

*** End of GW110996 ***

*** End of Report ***

Appendix D

Registered Bore Summary Table

Appendix D - Registered Groundwater Bore Summary Table

Registered Bore ID	Easting (mMGA)	Northing (mMGA)	Completion Date	Completion Type	Completion Depth (mbgl)	Groundwater Depth (mbgl)	Salinity Description	Yield (L/s)	Intended Purpose
GW007261	292318	6176155	5/01/1959	Bore open in rock	30.1	9.1	Good	0.1	DOMESTIC, STOCK
GW010779	296347	6183211	5/01/1954	Bore open in rock	30.4	9.7	3001-7000 ppm	0.5	GENERAL USE
GW011738	291890	6180461	7/01/1955	Bore open in rock	40.5	No data	1001-3000 ppm	0.8	GENERAL USE
GW011891	294132	6178322	1/01/1941	Bore	22.8	No data	No data	No data	GENERAL USE
GW011918	296710	6179652	1/01/1952	Bore	17.3	No data	No data	No data	GENERAL USE
GW012581	297331	6184897	11/01/1956	Bore open in rock	37.1	4.2	501-1000 ppm	1.2	STOCK
GW012769	290385	6174755	12/01/1956	Bore open in rock	16.1	1.5	1001-3000 ppm	0.8	IRRIGATION
GW012775	289645	6174769	12/01/1956	Bore open in rock	19.5	2.4	501-1000 ppm	0.5	IRRIGATION
GW013023	298516	6185600	11/01/1956	Bore open in rock	15.2	0.9	501-1000 ppm	No data	DOMESTIC, STOCK
GW013164	290873	6174642	1/01/1944	Bore open in rock	21.9	No data	No data	No data	STOCK
GW013165	290797	6174610	1/01/1942	Bore open in rock	21.9	6.0	No data	1.3	STOCK
GW013399	300542	6172143	12/01/1946	Bore	18.2	1.8	No data	0.4	STOCK
GW013401	294637	6183173	10/01/1941	Bore	27.4	4.5	No data	No data	STOCK
GW013424	294766	6174621	1/01/1944	Bore open in rock	10.9	3.6	No data	1.3	STOCK
GW013626	295742	6181687	8/01/1958	Bore open in rock	57.9	24.3	No data	0.8	GENERAL USE
GW013688	295945	6181722	1/01/1946	Bore open in rock	57.9	No data	No data	No data	GENERAL USE
GW015075	292129	6174362	1/01/1957	Bore open in rock	21.3	2.1	1001-3000 ppm	0.8	STOCK
GW015076	292066	6174885	1/01/1957	Bore open in rock	15.2	4.8	1001-3000 ppm	0.4	STOCK
GW015266	292819	6179988	3/01/1957	Bore open in rock	13.4	1.9	3001-7000 ppm	1.1	GENERAL USE
GW016480	298607	6184924	28/02/1983	Bore	41.0	No data	No data	No data	STOCK
GW017381	298499	6185199	No data	Bore open in rock	31.3	13.4	No data	0.4	IRRIGATION
GW017555	297065	6170249	4/01/1959	Bore open in rock	20.4	6.4	No data	No data	IRRIGATION
GW017620	293873	6180456	9/01/1959	Bore	43.8	1.5	Good	0.3	STOCK
GW017768	297132	6184646	9/01/1959	Bore open in rock	9.1	1.3	Good	0.3	GENERAL USE
GW017976	293408	6170754	5/01/1959	Bore open in rock	18.8	9.1	No data	0.6	STOCK
GW018167	298862	6171983	No data	Bore	No data	No data	Brackish	No data	STOCK
GW022780	293610	6174272	1/01/1961	Bore	8.2	No data	No data	No data	NOT KNOWN
GW023486	296768	6169842	10/01/1965	Bore open in rock	36.5	1.2	1001-3000 ppm	5.1	IRRIGATION
GW024044	296293	6170540	11/01/1965	Bore open in rock	37.1	No data	No data	0.1	GENERAL USE
GW024156	297392	6170441	No data	Bore open in rock	53.0	5.4	Fair	0.4	STOCK
GW028786	296175	6182868	5/01/1968	Bore open in rock	55.7	5.9	No data	9.1	STOCK
GW031499	294650	6173371	No data	Excavation	6.4	No data	No data	0.4	IRRIGATION
GW031515	295156	6173567	12/01/1966	Bore open in rock	30.4	6.0	Salty	15.2	STOCK
GW031974	290395	6170932	1/01/1969	Bore open in rock	33.5	No data	No data	0.9	IRRIGATION
GW033073	293140	6174755	No data	Bore	60.9	No data	No data	No data	IRRIGATION
GW033541	296185	6178953	2/01/1968	Well	6.1	3.0	V Salty	No data	IRRIGATION
GW037283	295469	6179191	10/01/1968	Bore open in rock	32.9	6.0	No data	4.5	DOMESTIC, STOCK
GW038231	296538	6169867	6/01/1974	Bore open in rock	60.9	4.5	3001-7000 ppm	0.3	DOMESTIC, STOCK
GW038648	292470	6171657	2/01/1969	Bore	94.4	6.0	S Brackish	2.5	DOMESTIC
GW051493	292649	6173518	12/01/1980	Bore	81.0	24.2	No data	1.2	DOMESTIC
GW053056	294077	6180810	12/01/1980	Bore	60.0	No data	No data	No data	IRRIGATION
GW062022	287433	6170032	No data	Excavation	1.0	No data	No data	No data	INDUSTRIAL
GW062030	295247	6178686	No data	Bore	6.1	No data	No data	No data	IRRIGATION
GW062042	290616	6171338	1/01/1981	Bore	55.0	No data	No data	No data	IRRIGATION
GW062644	294099	6182113	9/01/1985	Bore	13.7	No data	No data	No data	MONITORING BORE
GW062645	293809	6181397	9/01/1985	Bore	10.2	No data	No data	No data	MONITORING BORE
GW062646	293549	6181607	10/01/1985	Bore	9.5	No data	No data	No data	MONITORING BORE
GW062647	293537	6182131	10/01/1985	Bore	7.8	No data	No data	No data	MONITORING BORE
GW062648	294159	6181744	10/01/1985	Bore	12.2	No data	No data	No data	MONITORING BORE
GW062649	294077	6181958	10/01/1985	Bore	6.3	No data	No data	No data	MONITORING BORE
GW062852	291883	6178488	1/01/1960	Bore	8.0	No data	No data	No data	DOMESTIC
GW063641	293971	6182110	5/01/1988	Bore	15.7	5.5	No data	0.1	MONITORING BORE
GW063642	293636	6182288	5/01/1988	Bore	21.5	6.1	No data	2.8	MONITORING BORE
GW063643	293760	6182414	5/01/1988	Bore	21.5	4.6	No data	11.0	MONITORING BORE
GW063644	294045	6182235	5/01/1988	Bore	21.0	3.0	No data	2.3	MONITORING BORE
GW063645	293636	6182288	5/01/1988	Bore	24.0	No data	No data	7.5	MONITORING BORE
GW063646	294585	6182062	5/01/1988	Bore	16.0	No data	No data	0.3	MONITORING BORE
GW063647	294810	6182283	5/01/1988	Bore	15.5	No data	No data	0.4	MONITORING BORE
GW063648	294399	6182297	6/01/1988	Bore	19.0	0.9	No data	0.8	MONITORING BORE
GW063649	294293	6181408	6/01/1988	Bore	21.5	No data	No data	No data	MONITORING BORE
GW063650	293537	6182131	8/01/1988	Bore	18.5	9.8	No data	0.6	MONITORING BORE
GW063651	294077	6181958	9/01/1988	Bore	20.0	8.4	No data	0.4	MONITORING BORE
GW063652	294112	6181527	9/01/1988	Bore	20.0	5.0	No data	1.5	MONITORING BORE
GW063653	294970	6181978	9/01/1988	Bore	20.5	5.0	No data	0.7	MONITORING BORE
GW064358	293475	6180342	9/01/1987	Bore	36.6	No data	No data	3.8	TEST BORE
GW064359	293427	6180187	9/01/1987	Bore	79.2	3.0	No data	2.5	TEST BORE
GW067383	291257	6173022	22/08/1982	Bore open in rock	42.0	15.0	Salty	1.8	DOMESTIC, STOCK
GW068119	296862	6186185	19/02/1992	Bore	19.0	No data	No data	3.5	DOMESTIC, STOCK
GW068181	296933	6171003	22/02/1992	Bore	20.0	0.5	No data	0.1	TEST BORE
GW069123	297516	6170015	3/01/1991	Bore open in rock	36.0	24.0	S.Salty	1.8	DOMESTIC, STOCK
GW071002	293104	6177529	No data	Bore	16.0	6.0	No data	0.4	DOMESTIC, STOCK
GW072410	293925	6180969	11/07/1994	Bore	39.0	No data	No data	1.0	DOMESTIC, STOCK
GW072794	296754	6172563	2/06/1995	Bore open in rock	30.0	6.0	Salty	0.3	DOMESTIC, STOCK
GW072936	293040	6175492	1/01/1992	Bore	60.0	No data	No data	No data	DOMESTIC, STOCK
GW075139	296896	6184157	16/06/2006	Bore	193.0	15.0	No data	4.0	TOWN WATER SUPPLY
GW100090	301059	6180979	23/01/1991	Bore	37.0	0.3	No data	0.3	DOMESTIC, STOCK
GW100499	298387	61714646	1/01/1950	Bore	9.0	0.5	Good	No data	IRRIGATION
GW100607	301060	6169978	1/01/1996	Bore	10.0	No data	No data	No data	MONITORING BORE
GW101394	296862	6186186	18/05/1988	Bore	15.7	5.5	No data	No data	MONITORING BORE
GW101395	296862	6186185	19/05/1988	Bore	21.5	6.1	No data	No data	MONITORING BORE
GW101396	296862	6186185	23/05/1988	Bore	21.5	4.6	No data	No data	MONITORING BORE
GW101397	296862	6186185	24/05/1988	Bore	21.0	3.0	No data	No data	MONITORING BORE
GW101398	296862	6186186	31/05/1988	No data	15.5	3.2	No data	No data	MONITORING BORE
GW101399	296862	6186186	27/05/1988	Bore	24.0	5.8	No data	No data	MONITORING BORE
GW101400	296862	6186185	30/05/1988	Bore	16.0	8.9	No data	No data	MONITORING BORE
GW101401	296862	6186185	6/06/1988	No data	21.5	No data	No data	0.7	MONITORING BORE
GW101402	296862	6186185	6/02/1988	Bore	19.0	0.9	No data	No data	MONITORING BORE
GW101403	296862	6186185	31/08/1988	Bore	18.5	9.8	No data	No data	MONITORING BORE
GW101404	296862	6186186	9/01/1988	Bore	20.0	8.4	No data	No data	MONITORING BORE
GW101405	296862	6186185	9/02/1988	Bore	12.0	6.2	No data	No data	MONITORING BORE
GW101406	296862	6186185	9/02/1988	Bore	20.0	5.0	No data	No data	MONITORING BORE
GW101407	296862	6186185	9/05/1988	Bore	8.0	2.3	No data	No data	MONITORING BORE
GW101408	296862	6186185	9/08/1988	Bore	20.5	5.0	No data	No data	MONITORING BORE
GW102289	290847	6182840	21/01/1988	Bore	37.0	1.0	1600 uS/cm	3.5	INDUSTRIAL
GW102352	292452	6185890	1/01/1940	Bore	60.0	5.0	No data	0.7	DOMESTIC, STOCK
GW102523	296933	6185566	3/04/1999	Bore	102.0	No data	No data	No data	DOMESTIC, STOCK
GW103334	291925	6178122	8/03/1998	Bore	8.4	2.0	No data	No data	MONITORING BORE
GW103335	291925	6178122	8/03/1998	Bore	10.0	5.0	No data	No data	MONITORING BORE
GW103336	291925	6178122	8/03/1998	Bore	11.5	9.0	No data	No data	MONITORING BORE
GW103337	291925	6178122	8/03/1998	Bore	8.5	6.5	No data	No data	MONITORING BORE
GW103338	291925	6178122	8/04/1998	Bore	2.2	1.5	No data	No data	MONITORING BORE
GW103586	291488	6170742	21/11/2000	Bore	90.0	5.0	900 uS/cm	0.6	DOMESTIC, STOCK
GW103590	291234	61804719	19/10/2000	Bore	48.0	15.0	No data	2.1	TEST BORE
GW103624	297120	6184887	25/01/2001	Bore	60.0	12.0	1340 uS/cm	2.3	DOMESTIC, STOCK
GW104204	291237	6174390	17/04/1996	Bore	36.0	18.0	Fair	3.5	RECREATION (GROUNDWATER)
GW105351	293608	6181116	24/08/2004	Bore	17.0	6.0	Good	2.5	DOMESTIC
GW105468	294805	6169592	23/10/2003	Bore	48.0	9.5	600 uS/cm	9.1	DOMESTIC, STOCK
GW105699	296760	6185317	18/02/2004	Bore	132.0	113.0	No data	0.1	DOMESTIC
GW105700	293810	6175542	21/2/2004	Bore	72.0	43.0	No data	0.2	DOMESTIC
GW105928	294112	6178441	16/05/2005	Bore	No data	No data	No data	No data	DOMESTIC
GW107191	300653	6183281	19/12/2004	Bore	52.0	11.0	No data	8.0	DOMESTIC
GW107654	296818	6180921	2/09/2005	Bore	54.0	6.0	No data	0.1	RECREATION (GROUNDWATER)
GW107675	295226	6184609	15/01/2003	Bore	55.0	16.0	No data	0.5	DOMESTIC
GW107727	301625	6182677	1/08/2006	Spear	7.0	4.5	Fresh	1.2	DOMESTIC
GW107819	295287	6172303	20/12/2005	Bore	150.0	0.2	4750 uS/cm	0.1	RECREATION (GROUNDWATER)
GW107966	291297	6170106	28/04/2005	Bore	186.0	34.5	3250 uS/cm	0.1	DOMESTIC, STOCK
GW108033	300269	6183194	30/05/2006	Bore	52.0	6.0	No data	1.5	DOMESTIC
GW108326	298576	6181654	1/01/2005	Bore	54.0	1.0	Brackish	4.4	RECREATION (GROUNDWATER)
GW108663	292547	6171695	14/03/2008	Bore	73.2	No data	No data	No data	DOMESTIC, STOCK
GW108654	299786	6183188	5/01/2008	Bore	90.0	4.5	Fresh	5.5	RECREATION (GROUNDWATER)
GW109000	301148	6170119	7/03/2008	Bore	78.0	27.0	2600 uS/cm	No data	DOMESTIC, STOCK
GW109033	300231	6180203	14/07/2008	Bore	36.0	No data	No data	No data	