

Appendix F. Piezometer Form A's

FORM A PARTICULARS OF COMPLETED
BORE

VERSION 2004

Driller's Licence No: <u>1884</u> Class of Licence: <u>CLASS 2</u> Driller's Name: <u>ALEX BELL</u> Assistant Driller's Name: <u>ROBBIE BLANK</u> Contractor: <u>E-A SYSTEMS PTY-LTD</u> New bore ☒ Replacement Bore ☐ Deepened ☐ Enlarged ☐ Reconditioned ☐ Other (specify) _____ Final Depth <u>2-35</u> m				1 Work Licence No: <u>90BL 252919</u> Name of Licensee: <u>E.A. SYSTEMS</u> Intended Use: <u>MANAGEMENT BORER</u> Completion Date: <u>22/10/2005</u> 2									
DRILLING DETAILS										3			
From (m)		To (m)		Hole Diameter (mm)		Drilling Method Code							
0		2-35		100		2							
WATER BEARING ZONES												4	
From (m)	To (m)	Thickness (m)	S W L (m)	Estimated Yield (L/s)		Test method Code	DDL at end of test (m)	Duration		Salinity (Conductivity or TDS)			
				Individual Aquifer	Cumulative			Hrs	min	Cond. (µS/cm)	TDS (mg/L)		
DAY													
CASING / LINER DETAILS												5	
Material Code	O D (mm)	Wall Thickness (mm)	From (m)	To (m)	Method of Fixing Code	Casing Support Method Code		Type of casing bottom Code					
8	60	5	0-4	0-35	SCREW			2					
						Centralisers installed: No ☒ Yes ☐ (Indicate on Sketch)							
						Sump installed No ☐ Yes ☒ From 1-85m To 2-35m							
						Pressure cemented No ☒ Yes ☐ From m To m							
Casing Protector						Casing Protector cemented in place No ☒ Yes ☐							
WATER ENTRY DESIGN												6	
General							Screen		Slot Details				
Material Code	OD (mm)	Wall thickness (mm)	From (m)	To (m)	Opening type Code	Fixing Code	Aperture (mm)	Length (mm)	Width (mm)	Alignment Code			
8	60	5	0-35	1-85	5	SCREW	0-4	35	4	H			
GRAVEL PACK												7	
Type		Grade		Grain size (mm)		Depth (m)		Quantity					
				From To		From To		Litres or m³					
Rounded ☒		Graded ☒		2 3		0-35 2-35		10-5					
Crushed ☐		Ungraded ☐											
Bentonite/Grout seal No ☐ Yes ☒						0-25 0-35		3/4					
Method of placement of Gravel Pack						Code		4					
BORE DEVELOPMENT												8	
Chemical used for breaking down drilling mud No ☒ Yes ☐ Name:													
Method	Bailing/ Surging ☐	Jetting ☐	Airlifting ☐	Backwashing ☐	Pumping ☐	Other:							
Duration	hrs	hrs	hrs	hrs	hrs	hrs							
DISINFECTION ON COMPLETION												9	
Chemical/s used				Quantity applied (litres)				Method of application					
N/A													
PUMPING TESTS ON COMPLETION												10	
Test type		Date	Pump intake depth (m)	Initial Water Level (S W L) (m)	Pumping rate (L/s)	Water Level at end of pumping (DDL) (m)	Duration of Test (hrs)	Recovery					
								Water level (m)	Time taken (hrs) (min)				
Multi stage (stepped drawdown)	Stage 1												
	Stage 2												
	Stage 3												
Single stage (constant rate)													
Height of measuring point above ground level: m						Test Method Code		See Code Table 4					
For DIPNR use only:													
G W													

FORM A PARTICULARS OF COMPLETED
BORE

VERSION 2004

Work Licence No: 90 BL

WORK PARTLY BACKFILLED OR ABANDONED 11

Original depth of work : metres . Is work partly backfilled : No ☐ Yes ☐

Is work abandoned : No ☐ Yes ☐ Method of abandonment: Backfilled ☐ Plugged ☐ Capped ☐

Has any casing been left in the work No ☐ Yes ☐ From (m) To (m)

Sealing / fill type Code	From depth (m)	To depth (m)	Sealing / fill type Code	From depth (m)	To depth (m)

Site chosen by: Hydrogeologist ☐ Geologist ☐ Driller ☒ Diviner ☐ Client ☐ other ☒ Engineer

DRILLER'S ROCK/STRATA DESCRIPTION (LITHOLOGY)

Depth		Description	WORK CONSTRUCTION SKETCH
From (m)	To (m)		
0-0	0-3	TOPSOIL - COARSE TO FINE LOAMY GRAVEL	
0-3	0-5	LOAMY GRAVEL MEDIUM	
0-5	1-0	ORANGEY CLAY WITH GRAINS OR FINE SAND	
1-0	1-5	YELLOW CLAY WITH SOME DECOMPOSED ROCK	
1-5	2-0	YELLOW CLAY	
2-0	2-35	BED ROCK WHITE CLAY WITH FINE SANDY PARTICLES / GRAINS	

WORK NOT CONSTRUCTED BY DRILLING RIG 14

Method of Excavation : Hand dug ☐ Back hoe ☐ Dragline ☐ Dozer ☐ Bailing ☐ Other :

Depth (m)	Length (m)	Width (m)	Diameter (m)	Lining material	Dimensions of liner (m)	From Depth (m)	To Depth (m)

PLEASE ATTACH COPIES OF THE FOLLOWING IF AVAILABLE 15

Geologist log	No ☒ Yes ☐	Laboratory analysis of water Sample	No ☒ Yes ☐	Pumping test(s)	No ☒ Yes ☐
Geophysical log	No ☒ Yes ☐	Sieve analysis of aquifer material	No ☒ Yes ☐	Installed Pump details	No ☒ Yes ☐

LOCATION OF BORE 16

Lot No 2 DP No 253346 "Sherraloy" Piezo #1.

Work Location Coordinates Easting 0383461-98 Northing 6618683-401 Zone 56

GPS : No ☐ Yes ☐ >> AMG/AGD ☐ or MGA/GDA ☒ (See explanation)

Please mark the work site with "X" on the DIPNR CLID map or supply a sketch map of the location Attach the map to this Form A package.

SIGNATURES

Driller Signature: [Signature]

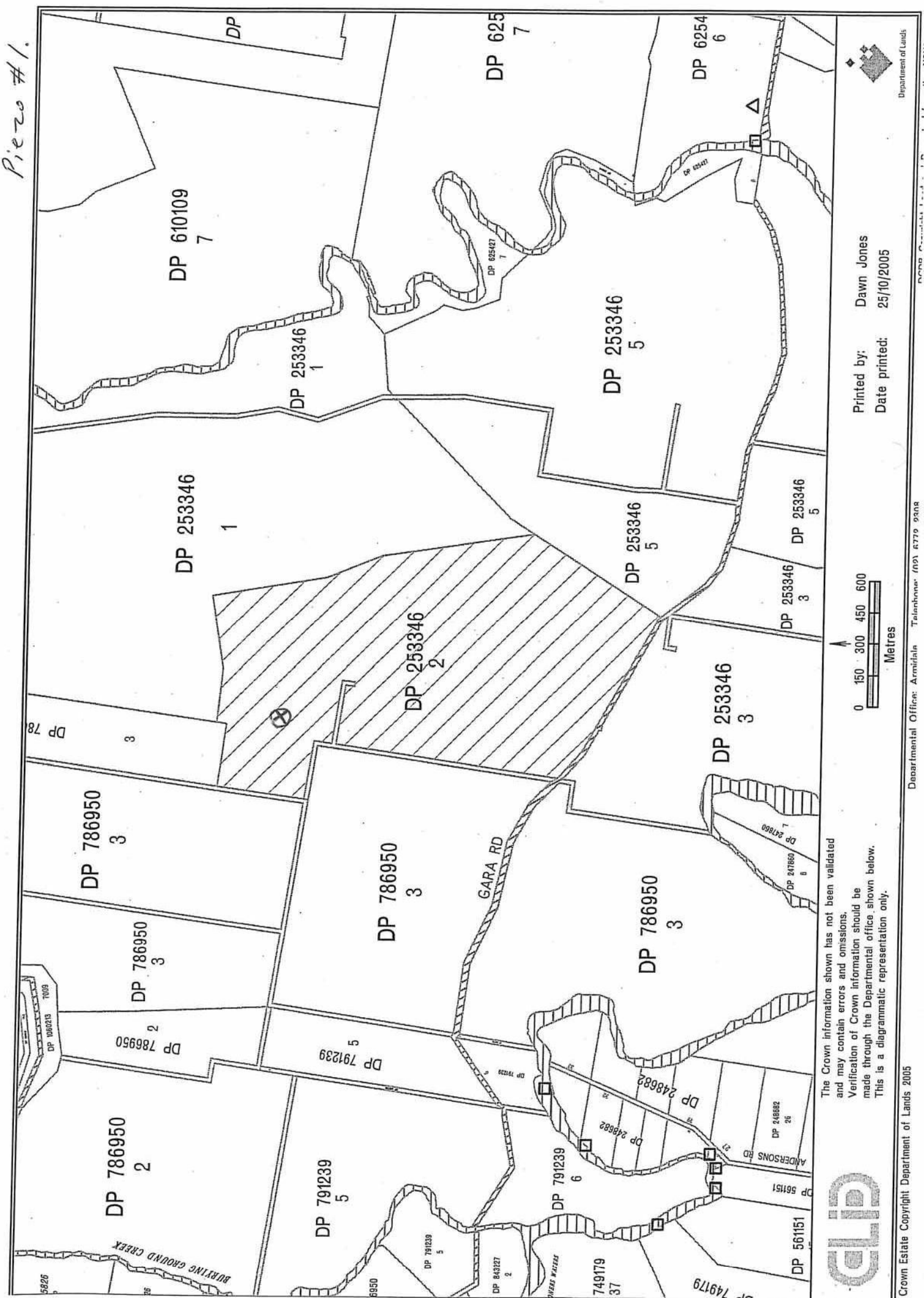
Licensee Signature: [Signature]

Date: 11-9-06

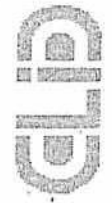
Date: 11-9-06

NOTE: If not enough space is provided use a separate piece of paper. Provide details of works location, Drillers License Number and Work License Number.

Piero #1.



The Crown information shown has not been validated and may contain errors and omissions. Verification of Crown information should be made through the Departmental office shown below. This is a diagrammatic representation only.



FORM A PARTICULARS OF COMPLETED
BORE

VERSION 2004

Driller's Licence No: <u>1884</u> Class of Licence: <u>CLASS 2</u> Driller's Name: <u>ALAN BELL</u> Assistant Driller's Name: <u>ROBBIE BLAIR</u> Contractor: _____ New bore ☒ Replacement Bore ☐ Deepened ☐ Enlarged ☐ Reconditioned ☐ Other (specify) _____ Final Depth <u>2-5</u> m				1 Work Licence No: <u>90BL 252919</u> Name of Licensee: <u>E.A. SUSTAIN PTY LIMITED</u> Intended Use: <u>MINING BORE</u> Completion Date: <u>12/10/05</u> 2					
DRILLING DETAILS								3	
From (m)		To (m)		Hole Diameter (mm)		Drilling Method Code			
0		2-5		100		2			

WATER BEARING ZONES										4	
From (m)	To (m)	Thickness (m)	S W L (m)	Estimated Yield (L/s)		Test method Code	D D L at end of test (m)	Duration		Salinity (Conductivity or TDS)	
				Individual Aquifer	Cumulative			Hrs	min	Cond. (µS/cm)	TDS (mg/L)
DRY											

CASING / LINER DETAILS										5	
Material Code	OD (mm)	Wall Thickness (mm)	From (m)	To (m)	Method of Fixing Code	Casing Support Method Code					
8	60	5	+0-3	0-5	SCREW	2					
						Type of casing bottom Code	2				
						Centralisers installed: No ☒ Yes ☐	(Indicate on Sketch)				
						Sump installed No ☐ Yes ☒	From <u>2-0</u> m To <u>2-5</u> m				
						Pressure cemented No ☒ Yes ☐	From _____ m To _____ m				
Casing Protector						Casing Protector cemented in place	No ☒ Yes ☐				

WATER ENTRY DESIGN										6	
General							Screen	Slot Details			
Material Code	OD (mm)	Wall thickness (mm)	From (m)	To (m)	Opening type Code	Fixing Code	Aperture (mm)	Length (mm)	Width (mm)	Alignment Code	
8	60	5	0-5	2-0	5	SCREW	0-4	35	4	H	

GRAVEL PACK										7	
Type	Grade	Grain size (mm)		Depth (m)		Quantity					
		From	To	From	To	Litres	or m ³				
Rounded ☒	Graded ☒	2	3	0-5	2-5	10					
Crushed ☐	Ungraded ☐			0-3	0-5	1-5					
Bentonite/Grout seal No ☐ Yes ☒				0-3	0-5	1-5					
Method of placement of Gravel Pack				Code		4					

BORE DEVELOPMENT										8	
Chemical used for breaking down drilling mud No ☒ Yes ☐ Name: _____											
Method	Bailing/ Surging ☐	Jetting ☐	Airlifting ☐	Backwashing ☐	Pumping ☐	Other: _____					
Duration	hrs	hrs	hrs	hrs	hrs	hrs					

DISINFECTION ON COMPLETION										9	
Chemical/s used		Quantity applied (litres)				Method of application					
NA											

PUMPING TESTS ON COMPLETION										10	
Test type	Date	Pump intake depth (m)	Initial Water Level (S W L) (m)	Pumping rate (L/s)	Water Level at end of pumping (DDL) (m)	Duration of Test (hrs)	Recovery				
							Water level (m)	Time taken (hrs) (min)			
Multi stage (stepped drawdown)	Stage 1										
	Stage 2										
	Stage 3										
Single stage (constant rate)											

Height of measuring point above ground level: _____ m				Test Method Code		See Code Table 4	
For DIPNR use only:							
G	W						

FORM A PARTICULARS OF COMPLETED
BORE

VERSION 2004

Work Licence No: 90 BL 252919

WORK PARTLY BACKFILLED OR ABANDONED 11

Original depth of work: metres. Is work partly backfilled: No ☐ Yes ☐

Is work abandoned: No ☐ Yes ☐ Method of abandonment: Backfilled ☐ Plugged ☐ Capped ☐

Has any casing been left in the work No ☐ Yes ☐ From (m) To (m)

Sealing / fill type Code	From depth (m)	To depth (m)	Sealing / fill type Code	From depth (m)	To depth (m)

Site chosen by: Hydrogeologist ☐ Geologist ☐ Driller ☒ Diviner ☐ Client ☐ other ☒ Engineer 12

DRILLER'S ROCK/STRATA DESCRIPTION (LITHOLOGY) 13

Depth		Description	WORK CONSTRUCTION SKETCH
From (m)	To (m)		
0	0-1	SANDY LOAM - TOPSOIL	
0-1	0-3	LOAMY GRAVEL - TOPSOIL	
0-3	0-5	BAND OF SANDY FINE CLAY	
		LIGHT MEDIUM SO-COMBANDOR	
		IRONSTONE FINE GRAVELLY CLAY	
0-5	1-5	BROWN GRANULE FINE SILT CLAY	
1-5	2-0	YELLOW BROWN FINE SILT CLAY	
		GRAVELLY VERY FINE SAND, SILT CLAY	
2-0	2-5	SILT CLAY, FINE GRAVELLY	

WORK NOT CONSTRUCTED BY DRILLING RIG 14

Method of Excavation: Hand dug ☐ Back hoe ☐ Dragline ☐ Dozer ☐ Bailing ☐ Other: ☐

Depth (m)	Length (m)	Width (m)	Diameter (m)	Lining material	Dimensions of liner (m)	From Depth (m)	To Depth (m)

PLEASE ATTACH COPIES OF THE FOLLOWING IF AVAILABLE 15

Geologist log	No ☒ Yes ☐	Laboratory analysis of water Sample	No ☐ Yes ☐	Pumping test(s)	No ☐ Yes ☐
Geophysical log	No ☒ Yes ☐	Sieve analysis of aquifer material	No ☐ Yes ☐	Installed Pump details	No ☐ Yes ☐

LOCATION OF BORE 16

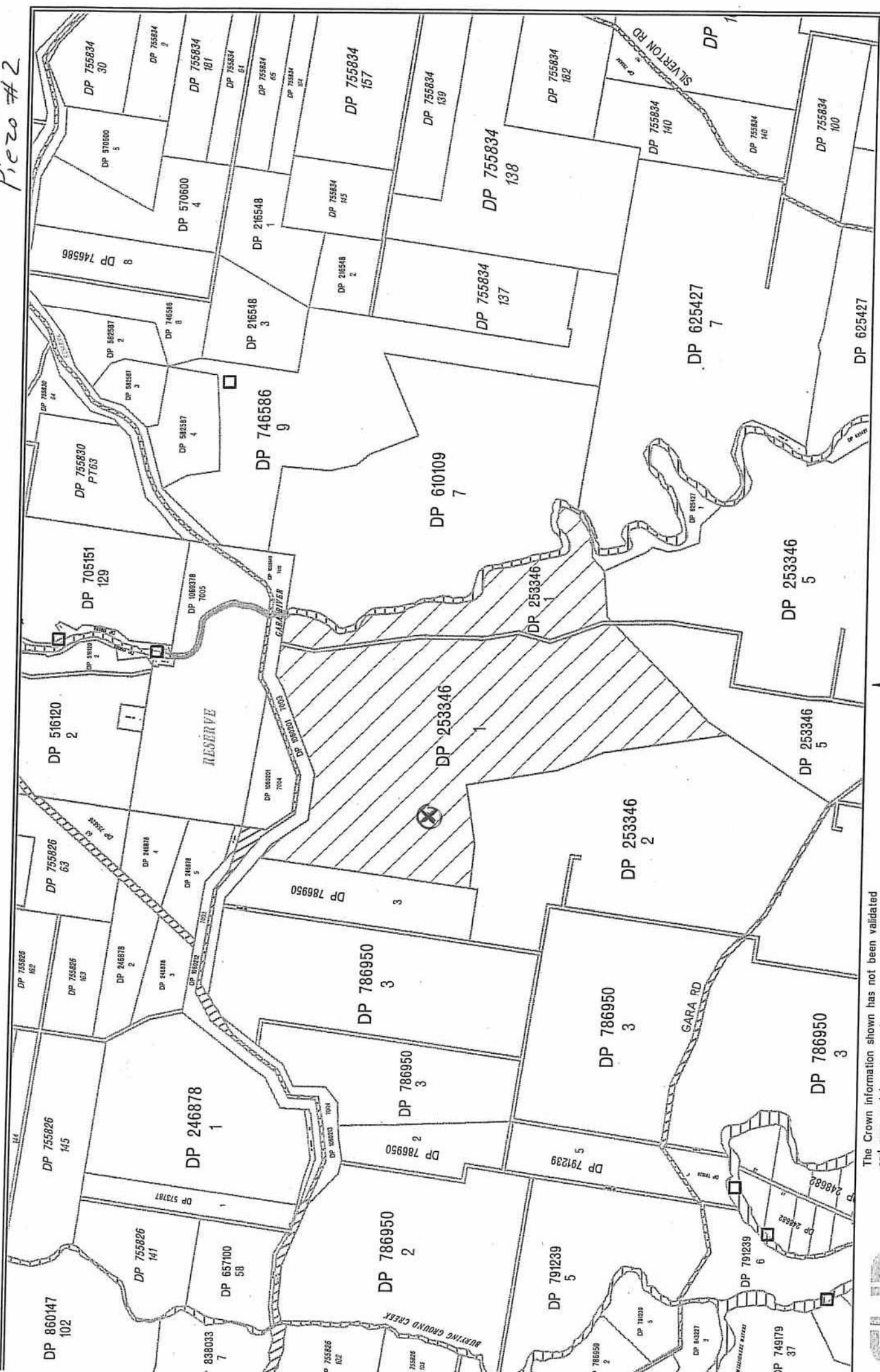
Lot No 1 DP No 253446 "Edington" Piece # 2.
Work Location Coordinates Easting 0353440.08 Northing 6819462.43 Zone 56
GPS: No ☐ Yes ☒ AMG/AGD ☐ or MGA/GDA ☒ (See explanation)
Please mark the work site with "X" on the DIPNR CLID map or supply a sketch map of the location Attach the map to this Form A package.

SIGNATURES 17

Driller Signature: Licensee Signature:
Date: 11-8-06 Date: 11-9-06

NOTE: If not enough space is provided use a separate piece of paper. Provide details of works location, Drillers License Number and Work License Number.

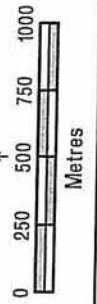
Piero #2



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Printed by: Dawn Jones
Date printed: 25/10/2005



FORM A PARTICULARS OF COMPLETED
BORE

VERSION 2004

Driller's Licence No: 1884 Class of Licence: 2 Driller's Name: Alex Blain Assistant Driller's Name: Robbie Blain Contractor: EA Systems P/L New bore ☒ Replacement Bore ☐ Deepened ☐ Enlarged ☐ Reconditioned ☐ Other (specify) _____ Final Depth 2-45 m				1 Work Licence No: 90 BL 252919 Name of Licensee: E.A. SYSTEMS P/L Intended Use: MONITORING BORE Completion Date: 12/10/2005				2																																																						
DRILLING DETAILS 3 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>From (m)</th> <th>To (m)</th> <th>Hole Diameter (mm)</th> <th>Drilling Method Code</th> </tr> <tr> <td>0</td> <td>2-45</td> <td>100</td> <td>2</td> </tr> </table>												From (m)	To (m)	Hole Diameter (mm)	Drilling Method Code	0	2-45	100	2																																											
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WATER ENTRY DESIGN 6 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="7">General</th> <th>Screen</th> <th colspan="3">Slot Details</th> </tr> <tr> <th>Material Code</th> <th>OD (mm)</th> <th>Wall thickness (mm)</th> <th>From (m)</th> <th>To (m)</th> <th>Opening type Code</th> <th>Fixing Code</th> <th>Aperture (mm)</th> <th>Length (mm)</th> <th>Width (mm)</th> <th>Alignment Code</th> </tr> <tr> <td>8</td> <td>60</td> <td>3</td> <td>0-45</td> <td>1-95</td> <td>5</td> <td>SCREW</td> <td>0-4</td> <td>35</td> <td>4</td> <td>H</td> </tr> </table>												General							Screen	Slot Details			Material Code	OD (mm)	Wall thickness (mm)	From (m)	To (m)	Opening type Code	Fixing Code	Aperture (mm)	Length (mm)	Width (mm)	Alignment Code	8	60	3	0-45	1-95	5	SCREW	0-4	35	4	H																		
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GRAVEL PACK 7 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Type</th> <th rowspan="2">Grade</th> <th colspan="2">Grain size (mm)</th> <th colspan="2">Depth (m)</th> <th rowspan="2">Quantity Litres or m³</th> </tr> <tr> <th>From</th> <th>To</th> <th>From</th> <th>To</th> </tr> <tr> <td>Rounded ☒</td> <td>Graded ☒</td> <td>2</td> <td>3</td> <td>0-45</td> <td>2-45</td> <td>10-5</td> </tr> <tr> <td>Crushed ☐</td> <td>Ungraded ☐</td> <td>0-3</td> <td>0-45</td> <td>3/4</td> <td></td> <td></td> </tr> <tr> <td colspan="7">Bentonite/Grout seal No ☐ Yes ☒</td> </tr> <tr> <td colspan="7">Method of placement of Gravel Pack Code 1</td> </tr> </table>												Type	Grade	Grain size (mm)		Depth (m)		Quantity Litres or m³	From	To	From	To	Rounded ☒	Graded ☒	2	3	0-45	2-45	10-5	Crushed ☐	Ungraded ☐	0-3	0-45	3/4			Bentonite/Grout seal No ☐ Yes ☒							Method of placement of Gravel Pack Code 1																		
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BORE DEVELOPMENT 8 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="12">Chemical used for breaking down drilling mud No ☒ Yes ☐ Name:</td> </tr> <tr> <td>Method</td> <td>Bailing/ Surging ☐</td> <td>Jetting ☐</td> <td>Airlifting ☐</td> <td>Backwashing ☐</td> <td>Pumping ☐</td> <td>Other:</td> <td colspan="5"></td> </tr> <tr> <td>Duration</td> <td>hrs</td> <td>hrs</td> <td>hrs</td> <td>hrs</td> <td>hrs</td> <td>hrs</td> <td colspan="5"></td> </tr> </table>												Chemical used for breaking down drilling mud No ☒ Yes ☐ Name:												Method	Bailing/ Surging ☐	Jetting ☐	Airlifting ☐	Backwashing ☐	Pumping ☐	Other:						Duration	hrs	hrs	hrs	hrs	hrs	hrs																				
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DISINFECTION ON COMPLETION 9 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Chemical/s used</th> <th>Quantity applied (litres)</th> <th>Method of application</th> </tr> <tr> <td>NIL</td> <td></td> <td></td> </tr> </table>												Chemical/s used	Quantity applied (litres)	Method of application	NIL																																															
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Height of measuring point above ground level: m Test Method Code See Code Table 4																																																														
For DIPNR use only: G W																																																														

FORM A PARTICULARS OF COMPLETED
BORE

VERSION 2004

Work Licence No: 90BL 252919

WORK PARTLY BACKFILLED OR ABANDONED [11]

Original depth of work: metres. Is work partly backfilled: No ☐ Yes ☐

Is work abandoned: No ☐ Yes ☐ Method of abandonment: Backfilled ☐ Plugged ☐ Capped ☐

Has any casing been left in the work No ☐ Yes ☐ From (m) To (m)

Sealing / fill type Code	From depth (m)	To depth (m)	Sealing / fill type Code	From depth (m)	To depth (m)

Site chosen by: Hydrogeologist ☐ Geologist ☐ Driller ☒ Diviner ☐ Client ☐ other ☒ Engineer [12]

DRILLER'S ROCK/STRATA DESCRIPTION (LITHOLOGY) [13]

Depth		Description	WORK CONSTRUCTION SKETCH
From (m)	To (m)		
0-0	0-3	TOP SOIL - GREY SAND/LOAM	
0-3	0-4	SILT, LIGHT CLAY MEDIUM MAST	
		TO TOUCH, GREY BROWN	
0-4	1-0	MEDIUM GRAVEL, YELLOW GREY	
		SLIGHTLY SILTY	
1-0	1-5	GRAVELLY MEDIUM CLAY	
		YELLOW GREY SLIGHTLY SILTY	
1-5	2-0	GRAVELLY MEDIUM CLAY, SLIGHTLY	
		SILTY	
2-0	2-45	GRAVELLY MEDIUM CLAY	
		SLIGHTLY SILTY YELLOW BROWN	

WORK NOT CONSTRUCTED BY DRILLING RIG [14]

Method of Excavation: Hand dug ☐ Back hoe ☐ Dragline ☐ Dozer ☐ Bailing ☐ Other:

Depth (m)	Length (m)	Width (m)	Diameter (m)	Lining material	Dimensions of liner (m)	From Depth (m)	To Depth (m)

PLEASE ATTACH COPIES OF THE FOLLOWING IF AVAILABLE [15]

Geologist log	No ☒ Yes ☐	Laboratory analysis of water Sample	No ☒ Yes ☐	Pumping test(s)	No ☒ Yes ☐
Geophysical log	No ☒ Yes ☐	Sieve analysis of aquifer material	No ☒ Yes ☐	Installed Pump details	No ☒ Yes ☐

LOCATION OF BORE [16]

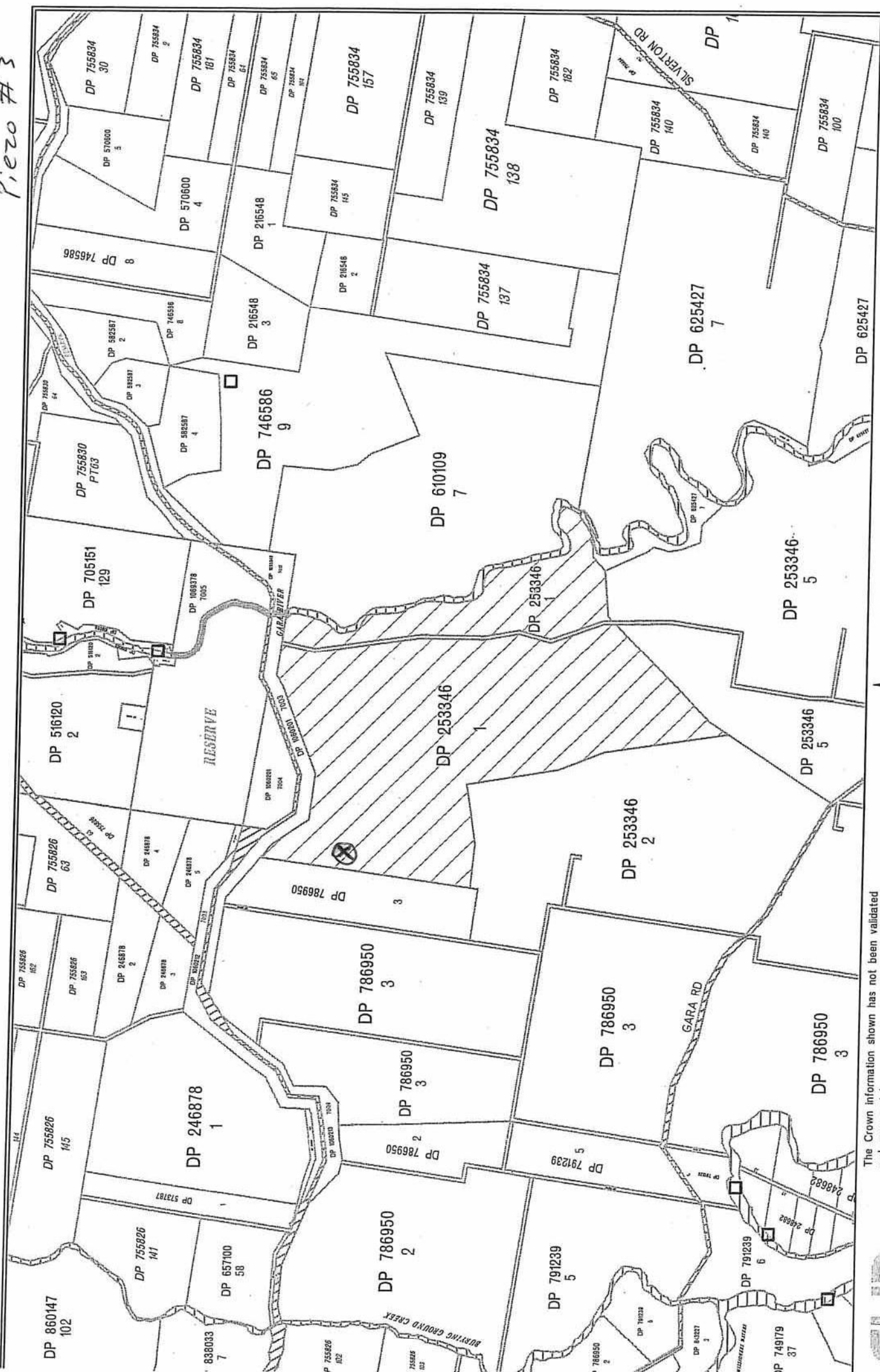
Lot No 1 DP No 253346 "Edington" Piezo # 3.
Work Location Coordinates Easting 0384120.89 Northing 6619735.29 Zone 56
GPS: No ☐ Yes ☐ >> AMG/AGD ☐ or MGA/GDA ☒ (See explanation)
Please mark the work site with "X" on the DIPNR CLID map or supply a sketch map of the location Attach the map to this Form A package.

SIGNATURES

Driller Signature: [Signature] Licensee Signature: [Signature] [17]
Date: 11-9-06 Date: 9-11-06

NOTE: If not enough space is provided use a separate piece of paper. Provide details of works location, Drillers License Number and Work License Number.

Piero #3



The Crown information shown has not been validated and may contain errors and omissions. Verification of Crown information should be made through the Departmental office shown below. This is a diagrammatic representation only.



Printed by: Dawn Jones
Date printed: 25/10/2005

FORM A PARTICULARS OF COMPLETED
BORE

VERSION 2004

Driller's Licence No: <u>1584</u> Class of Licence: <u>CLASS 2</u> Driller's Name: <u>ALEX BELL</u> Assistant Driller's Name: <u>ROBBIE BLACK</u> Contractor: <u>E.A. SYSTEMS PTY LTD.</u> New bore ☒ Replacement Bore ☐ Deepened ☐ Enlarged ☐ Reconditioned ☐ Other (specify) _____ Final Depth <u>3.1</u> m				1 Work Licence No: <u>90 BL 252919</u> 2 Name of Licensee: <u>E.A. SYSTEMS</u> Intended Use: <u>MONITORING BORE</u> Completion Date: <u>12th OCTOBER 2005</u>																																																		
3 DRILLING DETAILS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>From (m)</th> <th>To (m)</th> <th>Hole Diameter (mm)</th> <th>Drilling Method Code</th> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">3.1</td> <td style="text-align: center;">100</td> <td style="text-align: center;">2</td> </tr> </table>								From (m)	To (m)	Hole Diameter (mm)	Drilling Method Code	0	3.1	100	2																																							
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4 WATER BEARING ZONES <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">From (m)</th> <th rowspan="2">To (m)</th> <th rowspan="2">Thickness (m)</th> <th rowspan="2">S W L (m)</th> <th colspan="2">Estimated Yield (L/s)</th> <th rowspan="2">Test method Code</th> <th rowspan="2">D D L at end of test (m)</th> <th colspan="2">Duration</th> <th colspan="2">Salinity (Conductivity or TDS)</th> </tr> <tr> <th>Individual Aquifer</th> <th>Cumulative</th> <th>Hrs</th> <th>min</th> <th>Cond. (µS/cm)</th> <th>TDS (mg/L)</th> </tr> <tr> <td colspan="12" style="text-align: center;"><u>DRY</u></td> </tr> </table>										From (m)	To (m)	Thickness (m)	S W L (m)	Estimated Yield (L/s)		Test method Code	D D L at end of test (m)	Duration		Salinity (Conductivity or TDS)		Individual Aquifer	Cumulative	Hrs	min	Cond. (µS/cm)	TDS (mg/L)	<u>DRY</u>																										
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Height of measuring point above ground level: _____ m Test Method Code _____ See Code Table 4																																																						
For DIPNR use only: G W _____ _____ _____ _____ _____ _____																																																						

Work Licence No: 90 BL 252919

WORK PARTLY BACKFILLED OR ABANDONED

Original depth of work : metres . Is work partly backfilled : No ☐ Yes ☐

Is work abandoned: No ☐ Yes ☐ Method of abandonment: Backfilled ☐ Plugged ☐ Capped ☐

Has any casing been left in the work No ☐ Yes ☐ From (m) To (m)

Sealing / fill type Code	From depth (m)	To depth (m)	Sealing / fill type Code	From depth (m)	To depth (m)

Site chosen by: Hydrogeologist ☐ Geologist ☐ Driller ☒ Diviner ☐ Client ☒ other ☒

DRILLER'S ROCK/STRATA DESCRIPTION (LITHOLOGY)

[illegible]

WORK NOT CONSTRUCTED BY DRILLING RIG

Method of Excavation : Hand dug ☐ Back hoe ☐ Dragline ☐ Dozer ☐ Bailing ☐ Other : _____

Depth (m)	Length (m)	Width (m)	Diameter (m)	Lining material	Dimensions of liner (m)	From Depth (m)	To Depth (m)

PLEASE ATTACH COPIES OF THE FOLLOWING IF AVAILABLE

Geologist log No ☒ Yes ☐ Laboratory analysis of water Sample No ☒ Yes ☐ Pumping test(s) No ☒ Yes ☐

Geophysical log	No ☒ Yes ☐	Sieve analysis of aquifer material	No ☒ Yes ☐	Installed Pump details	No ☒ Yes ☐
-----------------	---	------------------------------------	---	------------------------	---

LOCATION OF BORE

Lot No 1 DP No 253945 "Edington" Piezo #4

Work Location Coordinates Easting 9384608.59 Northing 6619877.89 Zone 56

GPS: No ☐ Yes ☒ >> AMG/AGD ☐ or MGA/GDA ☒ (See explanation)

Please mark the work site with "X" on the DIPNR CLID map or supply a sketch map of the location. Attach the map to this Form A package.

SIGNATURES

Driller Signature:

Licensee Signature: M. Miller

Date: 11-18-195

Date: 11-9-06

NOTE: If not enough space is provided use a separate piece of paper. Provide details of works location, Drillers License Number and Work License Number.

[illegible]

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Departmental Offices Available - 100-678900

Printed by: Dawn Jones
Date printed: 25/10/2005



Driller's Licence No: 1877

Class of Licence: 2

Driller's Name: ALAN LITTLE

Assistant Driller's Name: JARED LITTLE

Contractor: REDLANDS DRILLING

New bore ☒ **Replacement Bore** ☐

Deepened ☐ **Enlarged** ☐

Reconditioned ☐ **Other (specify)** PIEZOMETER

Final Depth: 26.0 m

Work Licence No: 90 BL 252919

Name of Licensee: EA SYSTEMS

Intended Use: PIEZOMETER MONITORING BORE

Completion Date: 17-11-05

DRILLING DETAILS			
From (m)	To (m)	Hole Diameter (mm)	Drilling Method Code
0	2.5	100	2
2.5	5.0	76	7
5.0	26.0	76	13

[illegible]

CASING / LINER DETAILS							
Material	OD	Wall Thickness	From	To	Method of Fixing	Casing Support Method	Code
Code	(mm)	(mm)	(m)	(m)	Code		
8	60	5	10.9	10.1			3
						Type of casing bottom	Code
							2
						Centralisers installed: No ☒ Yes ☐	(Indicate on Sketch)
						Sump installed No ☐ Yes ☒	From 9.6 m To 10.1 m
						Pressure cemented No ☒ Yes ☐	From m To m
Casing Protector						Casing Protector cemented in place	No ☐ Yes ☐

[illegible]

GRAVEL PACK									7
Type	Grade	Grain size (mm)		Depth (m)		Quantity			
		From	To	From	To	Litres	or	m ³	
Rounded ☒	Graded ☒		2.5	1-4	10-1				
Crushed ☐	Ungraded ☐								
Bentonite/Grout seal		No ☐	Yes ☒						
Method of placement of Gravel Pack		Code							

For DLWC use only:	G	W						
--------------------	---	---	--	--	--	--	--	--

BORE DEVELOPMENT							8
Chemical used for breaking down drilling mud No ☒ Yes ☐ Name :							
Method	Bailing/ Surging ☐	Jetting ☐	Airlifting ☐	Backwashing ☐	Pumping ☐	Other: NIL	
Duration	hrs	hrs	hrs	hrs	hrs	hrs	

DISINFECTION ON COMPLETION			9
Chemical/s used	Quantity applied (litres)	Method of application	
NIL			

PUMPING TESTS ON COMPLETION										10
Test type	Date	Pump intake depth (m)	Initial Water Level (S W L) (m)	Pumping rate (L/s)	Water Level at end of pumping (DDL) (m)	Duration of Test (hrs)	Recovery			
							Water level (m)	Time taken (hrs)	(min)	
Multi stage (stepped drawdown)	Stage 1									
	Stage 2									
	Stage 3									
	Stage 4									
Single stage (constant rate)										
Height of measuring point above ground level: 0.9 m Test Method Code See Code Table 4										

WORK PARTLY BACKFILLED OR ABANDONED						11
Original depth of work : 26.0 metres		Is work partly backfilled : No ☐ Yes ☒				
Is work abandoned : No ☒ Yes ☐		Method of abandonment: Backfilled ☐ Plugged ☐ Capped ☐				
Has any casing been left in the work No ☐ Yes ☒		From +0.9 (m) To 10.1 (m)				
Sealing / fill type Code	From depth (m)	To depth (m)	Sealing / fill type Code	From depth (m)	To depth (m)	
3	10.1	11.0	3	10.9	1.4	

Site chosen by: Hydrogeologist ☐ Geologist ☐ Driller ☐ Diviner ☐ Client ☒ other ☐	12
--	----

Lot No 1 DP No 253346	13
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Work Location Coordinates Easting 383484 Northing 6619090 Zone 56	
GPS : No ☐ Yes ☐ >> AMG/AGD ☐ or MGA/GDA ☒ (See explanation)	

Please mark the work site with "X" on the DLWC CLID map.

Indicate also the distances in metres from two (2) adjacent boundaries, and attach the map to this Form A package.

Signatures:	
Driller: Alan [Signature]	Licensee: M. [Signature]
Date: 21/11/05	Date: 23/11/05

Work Licence No: 90 BL 252919

DRILLER'S ROCK/STRATA DESCRIPTION (LITHOLOGY)			WORK CONSTRUCTION SKETCH
From (m)	To (m)	Description	
0	3.0	CLAY PALE BROWN.	
3.0	4.0	ROCK XW-HW. PALE BROWN.	
4.0	12.0	ROCK HW-MW. PALE BROWN. WITH PARTIAL WATER LOSS	
12.0	21.0	ROCK M.W. PALE GREY-BROWN. SLIGHTLY HIGHER WATER LOSS	
21.0	26.0	BASALT S.W. GREY COMPLETE WATER LOSS FROM ~ 24.0m.	

WORK NOT CONSTRUCTED BY DRILLING RIG

Method of Excavation : Hand dug ☐ Back hoe ☐ Dragline ☐ Dozer ☐ Other : ☐

Depth (m)	Length (m)	Width (m)	Diameter (m)	Lining material	Dimensions of liner (m)	From Depth (m)	To Depth (m)

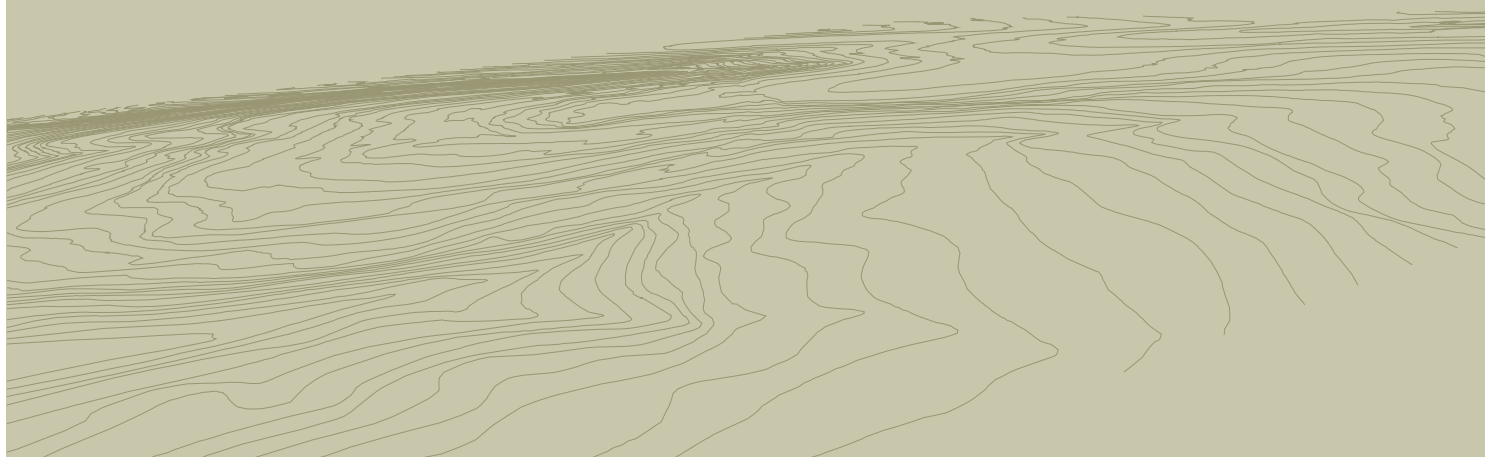
Please attach copies of the following if available

Geologist log	No ☐ Yes ☐	Laboratory analysis of water Sample	No ☐ Yes ☐	Pumping test(s)	No ☐ Yes ☐
Geophysical log	No ☐ Yes ☐	Sieve analysis of aquifer material	No ☐ Yes ☐	Installed Pump details	No ☐ Yes ☐

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ARMIDALE REGIONAL LANDFILL

Environmental Assessment





ARMIDALE REGIONAL LANDFILL

Environmental Assessment Publications

Volume 1

Main Document

Volume 2

- Appendix A Director-General's Requirements, 2005 and 2008; and Government Consultation
- Appendix B AECOM, 2006: Armidale Regional Landfill Environmental Management Plan (Draft)
- Appendix C Maunsell AECOM, 2004: Regional Landfill Siting Study Final Report
- Appendix D EA Systems, 2006: Hydrogeological Study

Volume 3

- Appendix E EA Systems, 2009: Flora and Fauna Assessment
- Appendix F RCA Australia, 2007: Hydrogeological Investigation
- Appendix G AECOM, 2010: Landfill Concept Design Drawings
- Appendix H EA Systems, 2009: Biodiversity Offset Management Plan

Volume 4

- Appendix I AECOM, 2010: Landfill Liner Literature Review and Hydrogeological (Leachate) Assessment
- Appendix J NSW Department of Public Works and Services, 2002: Landfill Siting Study, Aerial Photographic Survey
- Appendix K EA Systems, 2006: Preliminary Contaminated Site Investigations
- Appendix L EA Systems, 2006: Salinity Assessment
- Appendix M PM Ashley, 2006: Geological Report on proposed Armidale Dumaresq Council landfill site, with emphasis on investigation of a possible geological fault
- Appendix N PM Ashley, 2005: Report on Geological Logging of Diamond Drill Core from the Proposed Armidale Landfill Site
- Appendix O Holmes Air Sciences, 2009: Air Quality Assessment Report
- Appendix P AECOM, 2010: Greenhouse Gas Inventory
- Appendix Q AECOM, 2010: Armidale Regional Landfill Noise Impact Assessment
- Appendix R Archaeological Surveys & Reports Pty Ltd, 2009: The Archaeological Investigation For Sites Of Indigenous Cultural Significance For Part 3A Approval New England Regional Landfill Waterfall Way, East of Armidale, Northern Tablelands NSW