

| | |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LICENCE NO. | 886 |
| LICENCE HOLDER | TARAC TECHNOLOGIES PTY LTD |
| ADDRESS | 44 BEELBANGERA ROAD BEELBANGERA NSW 2680 LOT 204 DP 751743 |
| LINK TO EPA LICENCE | http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33579&SYSUID=1&LICID=886 |
| TELEPHONE COMPLAINTS LINE | 08 8568 6500 - business hours 0428 843 097- after hours emergency |
| SAMPLING/MONITORING POINTS | MAP ATTACHED |
| REPORTING PERIOD | 05-Apr-2017 to 04-Apr-2018 |
| DATA UPDATED | 10-Apr-2018 |

LICENCE HOLDER TARAC TECHNOLOGIES PTY LTD
LICENCE NO. 886

Discharges to Air and Water and Applications to Land

Location of monitoring/discharge points and areas

Water and land

| EPA Id no. | Type of Monitoring Point | Type of Discharge Point | Location Description |
|------------|--------------------------------|--------------------------------|---------------------------------------------------------|
| 1 | Effluent quality monitoring | | Spent marc leachate tank |
| 2 | Effluent quality monitoring | | Wastewater irrigation tank |
| 3 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pans |
| 4 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pans |
| 5 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pans |
| 6 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pans |
| 7 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 1 |
| 8 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 2 |
| 9 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 3 |
| 10 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 4 |
| 11 | Mass monitoring | | Designated area labelled "Spent grape marc storage dam" |

Requirement to monitor concentration of pollutants discharged

POINT 1 **Effluent quality monitoring** ***Spent marc leachate tank*** refer site monitoring map

| Pollutant | Units of measure | Frequency | Sampling Method |
|---------------------------|-----------------------------|----------------|-----------------|
| Biochemical oxygen demand | milligrams per litre | 2 Times a year | Grab sample |
| Chemical oxygen demand | milligrams per litre | 2 Times a year | Grab sample |
| Chloride | milligrams per litre | 2 Times a year | Grab sample |
| Electrical conductivity | microsiemens per centimetre | 2 Times a year | Grab sample |
| Nitrogen (total) | milligrams per litre | 2 Times a year | Grab sample |
| pH | pH | 2 Times a year | Grab sample |
| Phosphorus (total) | milligrams per litre | 2 Times a year | Grab sample |
| Potassium | milligrams per litre | 2 Times a year | Grab sample |
| Sodium | milligrams per litre | 2 Times a year | Grab sample |
| Total dissolved solids | milligrams per litre | 2 Times a year | Grab sample |
| Total suspended solids | micrograms per litre | 2 Times a year | Grab sample |

POINT 2 **Effluent quality monitoring** ***Wastewater irrigation tank*** refer site monitoring map

| Pollutant | Units of measure | Frequency | Sampling Method |
|---------------------------|-----------------------------|----------------|-----------------|
| Biochemical oxygen demand | milligrams per litre | 2 Times a year | Grab sample |
| Chemical oxygen demand | milligrams per litre | 2 Times a year | Grab sample |
| Chloride | milligrams per litre | 2 Times a year | Grab sample |
| Electrical conductivity | microsiemens per centimetre | 2 Times a year | Grab sample |
| Nitrogen (total) | milligrams per litre | 2 Times a year | Grab sample |
| pH | pH | 2 Times a year | Grab sample |
| Phosphorus (total) | milligrams per litre | 2 Times a year | Grab sample |
| Potassium | milligrams per litre | 2 Times a year | Grab sample |
| Sodium | milligrams per litre | 2 Times a year | Grab sample |
| Total dissolved solids | milligrams per litre | 2 Times a year | Grab sample |
| Total suspended solids | micrograms per litre | 2 Times a year | Grab sample |

POINTS 3,4,5,6 Soil quality monitoring

refer site monitoring map

| Pollutant | Units of measure | Frequency | Sampling Method |
|-------------------------|-------------------------|-----------|--------------------------------------------------------------------------------------------------------|
| Conductivity | deciSiemens per metre | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Exchangeable calcium | milligrams per kilogram | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Exchangeable magnesium | milligrams per kilogram | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Exchangeable potassium | milligrams per kilogram | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Exchangeable sodium | milligrams per kilogram | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Nitrogen (total) | milligrams per kilogram | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| pH | pH | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Phosphorus (total) | milligrams per kilogram | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Sodium Adsorption Ratio | sodium adsorption ratio | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |
| Total organic carbon | percent | Yearly | Special Method 1 the collection of composite surface soil (0-15 cm) and sub-soil (45-60 cm) samples |

POINTS 7,8,9,10 Groundwater quality monitoring - sample at each groundwater test well

refer site monitoring map

| Pollutant | Units of measure | Frequency | Sampling Method |
|---------------------------------------|-----------------------------|-----------|-----------------------|
| Chloride | milligrams per litre | Yearly | Representative sample |
| Electrical conductivity | microsiemens per centimetre | Yearly | Representative sample |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Yearly | Representative sample |
| Nitrogen (total) | milligrams per litre | Yearly | Representative sample |
| pH | pH | Yearly | Representative sample |
| Phosphorus (total) | milligrams per litre | Yearly | Representative sample |
| Potassium | milligrams per litre | Yearly | Representative sample |
| Sodium | milligrams per litre | Yearly | Representative sample |
| Standing Water Level | metres | Yearly | Representative sample |
| Total dissolved solids | milligrams per litre | Yearly | Representative sample |

Requirement to monitor volume or mass

POINT 2 ***Wastewater irrigation tank discharge to irrigation*** refer site monitoring map

| Frequency | Unit of Measure | Frequency | Sampling Method |
|-----------------------------|------------------------|------------------|-------------------------|
| Continuous during discharge | kilolitres per week | weekly | In line instrumentation |

POINT 11 ***Spent Marc Storage Dam*** refer site monitoring map

| Frequency | Unit of Measure | Frequency | Sampling Method |
|---------------------|------------------------|--------------------|--------------------------------------------|
| Special Frequency 2 | cubic metres | Yearly - 1 January | Estimate of mass as at 1 January annually. |

LICENCE HOLDER TARAC TECHNOLOGIES PTY LTD
 LICENCE NO. 886
 DATA UPDATED 10-Apr-18
 SAMPLING POINT 1

POINT 1 Effluent quality monitorin *Spent marc leachate tank* identified

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | |
|---------------------------|-----------------------------|---------------------------------------------|-----------------|-----------------------|---------------------------------------------|------------|-------------------|---------------------|-------------------|----------------------|-------|
| | | | | | Sample 1 | Sample 2 | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes |
| | | | | Sampling date | 16/05/2017 | 19/03/2018 | | | | | |
| | | | | Results Received date | 29/05/2017 | 30/03/2018 | | | | | |
| Biochemical oxygen demand | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 67100 | 62600 | 2 | 62600 | 64850 | 67100 | |
| Chemical oxygen demand | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 78200 | 10200 | 2 | 10200 | 44200 | 78200 | |
| Chloride | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 62 | 38 | 2 | 38 | 50 | 62 | |
| Electrical conductivity | microsiemens per centimetre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 11340 | 10430 | 2 | 10430 | 10885 | 11340 | |
| Nitrogen (total) | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 630 | 1120 | 2 | 630 | 875 | 1120 | |
| pH | pH | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 4.3 | 4.2 | 2 | 4.2 | 4.25 | 4.3 | |
| Phosphorus (total) | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 998 | 864 | 2 | 864 | 931 | 998 | |
| Potassium | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 4100 | 3800 | 2 | 3800 | 3950 | 4100 | |
| Sodium | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 71 | 96 | 2 | 71 | 83.45 | 95.9 | |
| Total dissolved solids | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 32400 | 61800 | 2 | 32400 | 47100 | 61800 | |
| Total suspended solids | micrograms per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 9200 | 7640 | 2 | 7640 | 8420 | 9200 | |

LICENCE HOLDER TARAC TECHNOLOGIES PTY LTD
 LICENCE NO. 886
 DATA UPDATED 10-Apr-18
 SAMPLING POINT 2

POINT 2 Effluent quality monitoring *Wastewater Irrigation Tank* identified

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | |
|---------------------------|-----------------------------|---------------------------------------------|-----------------|-----------------------|---------------------------------------------|------------|-------------------|---------------------|-------------------|----------------------|-------|
| | | | | | Sample 1 | Sample 2 | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes |
| | | | | Sampling date | 16/05/2017 | 19/03/2018 | | | | | |
| | | | | Results Received date | 29/05/2017 | 30/03/2018 | | | | | |
| Biochemical oxygen demand | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 2630 | 890 | 2 | 890 | 1760 | 2630 | |
| Chemical oxygen demand | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 4650 | 1420 | 2 | 1420 | 3035 | 4650 | |
| Chloride | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 37 | 32 | 2 | 32 | 34.5 | 37 | |
| Electrical conductivity | microsiemens per centimetre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 520 | 232 | 2 | 232 | 376 | 520 | |
| Nitrogen (total) | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 12.2 | 8.2 | 2 | 8.2 | 10.2 | 12.2 | |
| pH | pH | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 4.0 | 4.1 | 2 | 4 | 4.1 | 4.1 | |
| Phosphorus (total) | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 10 | 5 | 2 | 5 | 7.5 | 10 | |
| Potassium | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 52 | 21 | 2 | 21 | 36.5 | 52 | |
| Sodium | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 34 | 38 | 2 | 34 | 36.0 | 38 | |
| Total dissolved solids | milligrams per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 350 | 178 | 2 | 178 | 264.0 | 350 | |
| Total suspended solids | micrograms per litre | 2 Times a year - <i>Early Feb, Late May</i> | Grab sample | 2 | 103 | 105 | 2 | 103 | 104.0 | 105 | |

LICENCE HOLDER TARAC TECHNOLOGIES PTY LTD
 LICENCE NO. 886
 DATA UPDATED 10-Apr-18
 SAMPLING POINT 2

52 Nuber of Measurements made
 0 Lowest Result
 56 Mean Result
 296 High Result

POINT 2 **Effluent Volume monitoring** *Wastewater Irrigation Tank* identified

REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018

| Sampling date | Units of measure | Frequency | Sampling Method | Volume (KI) | Notes |
|------------------------|---------------------|-----------------------------|-------------------------|-------------|-----------------------------|
| | kilolitres per week | Continuous during discharge | In line instrumentation | | |
| week ending 9/04/2017 | | | | 155 | |
| week ending 16/04/2017 | | | | 186 | |
| week ending 23/04/2017 | | | | 214 | |
| week ending 30/04/2017 | | | | 221 | |
| week ending 7/05/2017 | | | | 266 | |
| week ending 14/05/2017 | | | | 296 | |
| week ending 21/05/2017 | | | | 141 | |
| week ending 28/05/2017 | | | | 199 | |
| week ending 4/06/2017 | | | | 32 | |
| week ending 11/06/2017 | | | | 85 | |
| week ending 18/06/2017 | | | | 96 | |
| week ending 25/06/2017 | | | | 0 | Nil discharge to irrigation |
| week ending 2/07/2017 | | | | 0 | Nil discharge to irrigation |
| week ending 9/07/2017 | | | | 172 | |
| week ending 16/07/2017 | | | | 98 | |
| week ending 23/07/2017 | | | | 103 | |
| week ending 30/07/2017 | | | | 0 | Nil discharge to irrigation |

| | | |
|------------------------|-----|-----------------------------|
| week ending 6/08/2017 | 12 | |
| week ending 13/08/2017 | 16 | |
| week ending 20/08/2017 | 22 | |
| week ending 27/08/2017 | 20 | |
| week ending 3/09/2017 | 12 | |
| week ending 10/09/2017 | 0 | Nil discharge to irrigation |
| week ending 17/09/2017 | 0 | Nil discharge to irrigation |
| week ending 24/09/2017 | 0 | Nil discharge to irrigation |
| week ending 1/10/2017 | 0 | Nil discharge to irrigation |
| week ending 8/10/2017 | 0 | Nil discharge to irrigation |
| week ending 15/10/2017 | 0 | Nil discharge to irrigation |
| week ending 22/10/2017 | 0 | Nil discharge to irrigation |
| week ending 29/10/2017 | 0 | Nil discharge to irrigation |
| week ending 5/11/2017 | 0 | Nil discharge to irrigation |
| week ending 12/11/2017 | 0 | Nil discharge to irrigation |
| week ending 19/11/2017 | 0 | Nil discharge to irrigation |
| week ending 26/11/2017 | 0 | Nil discharge to irrigation |
| week ending 3/12/2017 | 0 | Nil discharge to irrigation |
| week ending 10/12/2017 | 0 | Nil discharge to irrigation |
| week ending 17/12/2017 | 0 | Nil discharge to irrigation |
| week ending 24/12/2017 | 0 | Nil discharge to irrigation |
| week ending 31/12/2017 | 0 | Nil discharge to irrigation |
| week ending 7/01/2018 | 0 | Nil discharge to irrigation |
| week ending 14/01/2018 | 0 | Nil discharge to irrigation |
| week ending 21/01/2018 | 0 | Nil discharge to irrigation |
| week ending 28/01/2018 | 0 | Nil discharge to irrigation |
| week ending 4/02/2018 | 0 | Nil discharge to irrigation |
| week ending 11/02/2018 | 0 | Nil discharge to irrigation |
| week ending 18/02/2018 | 0 | Nil discharge to irrigation |
| week ending 25/02/2018 | 106 | |

| | | |
|------------------------|-----|--|
| week ending 4/03/2018 | 65 | |
| week ending 11/03/2018 | 73 | |
| week ending 18/03/2018 | 80 | |
| week ending 25/03/2018 | 124 | |
| week ending 1/04/2018 | 136 | |
| | | |
| | | |



LICENCE HOLDER TARAC TECHNOLOGIES PTY LTD
 LICENCE NO. 886
 DATA UPDATED 10-Apr-18
 SAMPLING POINT 3,4,5,6

POINT 3 Soil quality monitoring *Irrigation Bay* identified as Bay 4

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | | |
|-------------------------|-------------------------|-----------------|------------------|------------------|---------------------------------------------|------------------|-------------------|---------------------|-------------------|----------------------|-------|--|
| | | | | | Sample 1 0-15cm | Sample 2 45-60cm | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes | |
| | | | | | Sampling date | 10/01/2018 | 10/01/2018 | | | | | |
| | | | | | Results Received date | 7/02/2018 | 7/02/2018 | | | | | |
| Conductivity | deciSiemens per metre | Yearly - June | Special Method 1 | 1 | 0.28 | 0.971 | 2 | 0.28 | 0.63 | 0.971 | | |
| Exchangeable calcium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 4.84 | 22.8 | 2 | 4.84 | 13.82 | 22.8 | | |
| Exchangeable magnesium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 2.7 | 12.8 | 2 | 3 | 8 | 13 | | |
| Exchangeable potassium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 4.32 | 7.65 | 2 | 4 | 6 | 8 | | |
| Exchangeable sodium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 0.94 | 5.65 | 2 | 1 | 3 | 6 | | |
| Nitrogen (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 1240 | 228 | 2 | 228 | 734 | 1240 | | |
| pH | pH | Yearly - June | Special Method 1 | 1 | 8.2 | 8.9 | 2 | 8.2 | 8.55 | 8.9 | | |
| Phosphorus (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 921 | 72 | 2 | 72 | 497 | 921 | | |
| Sodium Adsorption Ratio | sodium adsorption ratio | 3 yearly - June | Special Method 1 | 1 | 2 | 4 | 2 | 2 | 3 | 4 | | |
| Total organic carbon | percent | Yearly - June | Special Method 1 | 1 | 1.39% | 0.97% | 2 | 0.97% | 1.18% | 1.39% | | |

POINT 4 Soil quality monitoring *Irrigation Bay* identified as Control

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | | |
|-------------------------|-------------------------|-----------------|------------------|------------------|---------------------------------------------|------------------|-------------------|---------------------|-------------------|----------------------|-------|--|
| | | | | | Sample 1 0-15cm | Sample 2 45-60cm | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes | |
| | | | | | Sampling date | 10/01/2018 | 10/01/2018 | | | | | |
| | | | | | Results Received date | 7/02/2018 | 7/02/2018 | | | | | |
| Conductivity | deciSiemens per metre | Yearly - June | Special Method 1 | 1 | 0.114 | 0.253 | 2 | 0.114 | 0.18 | 0.253 | | |
| Exchangeable calcium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 7.1 | 25.6 | 2 | 7.1 | 16.35 | 25.6 | | |
| Exchangeable magnesium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 2.9 | 14.6 | 2 | 3 | 9 | 15 | | |
| Exchangeable potassium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 2.89 | 3.04 | 2 | 3 | 3 | 3 | | |
| Exchangeable sodium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 0.21 | 2.14 | 2 | 0 | 1 | 2 | | |
| Nitrogen (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 1170 | 410 | 2 | 410 | 790 | 1170 | | |
| pH | pH | Yearly - June | Special Method 1 | 1 | 7.7 | 8.9 | 2 | 7.7 | 8.3 | 8.9 | | |
| Phosphorus (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 327 | 58 | 2 | 58 | 193 | 327 | | |
| Sodium Adsorption Ratio | sodium adsorption ratio | 3 yearly - June | Special Method 1 | 1 | 1 | 2 | 2 | 1 | 1.5 | 2 | | |
| Total organic carbon | percent | Yearly - June | Special Method 1 | 1 | 1.26% | 0.54% | 2 | 0.54% | 0.90% | 1.26% | | |

POINT 5 Soil quality monitoring *Irrigation Bay* identified as Bay 14

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | |
|-------------------------|-------------------------|-----------------|------------------|------------------|---------------------------------------------|---------------------|----------------------|------------------------|----------------------|-------------------------|-------|
| | | | | | Sample 1 0-15cm | Sample 2 45-60cm | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes |
| | | | | | Sampling date | 10/01/2018 | 10/01/2018 | | | | |
| | | | | | Results Received date | 7/02/2018 | 7/02/2018 | | | | |
| Conductivity | deciSiemens per metre | Yearly - June | Special Method 1 | 1 | 0.196 | 0.547 | 2 | 0.196 | 0.37 | 0.547 | |
| Exchangeable calcium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 5.35 | 20.2 | 2 | 5.35 | 12.775 | 20.2 | |
| Exchangeable magnesium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 3.78 | 9.71 | 2 | 4 | 7 | 10 | |
| Exchangeable potassium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 4.66 | 9.41 | 2 | 5 | 7 | 9 | |
| Exchangeable sodium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 0.38 | 4.35 | 2 | 0 | 2 | 4 | |
| Nitrogen (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 1510 | 351 | 2 | 351 | 930.5 | 1510 | |
| pH | pH | Yearly - June | Special Method 1 | 1 | 7.4 | 9.5 | 2 | 7.4 | 8.45 | 9.5 | |
| Phosphorus (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 1020 | 176 | 2 | 176 | 598 | 1020 | |
| Sodium Adsorption Ratio | sodium adsorption ratio | 3 yearly - June | Special Method 1 | 1 | 1 | 4 | 2 | 1 | 2.5 | 4 | |
| Total organic carbon | percent | Yearly - June | Special Method 1 | 1 | 1.55% | 0.74% | 2 | 0.74% | 1.14% | 1.55% | |

POINT 6 **Soil quality monitoring** *Irrigation Bay* identified as Bay 15

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | |
|-------------------------|-------------------------|-----------------|------------------|------------------|---------------------------------------------|---------------------|----------------------|------------------------|----------------------|-------------------------|-------|
| | | | | | Sample 1 0-15cm | Sample 2 45-60cm | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes |
| | | | | | Sampling date | 10/01/2018 | 10/01/2018 | | | | |
| | | | | | Results Received date | 7/02/2018 | 7/02/2018 | | | | |
| Conductivity | deciSiemens per metre | Yearly - June | Special Method 1 | 1 | 0.617 | 0.778 | 2 | 0.617 | 0.70 | 0.778 | |
| Exchangeable calcium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 5.75 | 15.3 | 2 | 5.75 | 10.525 | 15.3 | |
| Exchangeable magnesium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 5.29 | 9.22 | 2 | 5 | 7 | 9 | |
| Exchangeable potassium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 10.8 | 23.9 | 2 | 11 | 17 | 24 | |
| Exchangeable sodium | centimoles per kilogram | Yearly - June | Special Method 1 | 1 | 0.59 | 5.7 | 2 | 1 | 3 | 6 | |
| Nitrogen (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 1180 | 338 | 2 | 338 | 759 | 1180 | |
| pH | pH | Yearly - June | Special Method 1 | 1 | 8.9 | 9.9 | 2 | 8.9 | 9.4 | 9.9 | |
| Phosphorus (total) | milligrams per kilogram | Yearly - June | Special Method 1 | 1 | 1430 | 243 | 2 | 243 | 837 | 1430 | |
| Sodium Adsorption Ratio | sodium adsorption ratio | 3 yearly - June | Special Method 1 | 1 | 1 | 5 | 2 | 1 | 3 | 5 | |
| Total organic carbon | percent | Yearly - June | Special Method 1 | 1 | 1.07% | 0.33% | 2 | 0.33% | 0.70% | 1.07% | |

LICENCE HOLDER TARAC TECHNOLOGIES PTY LTD
 LICENCE NO. 886
 DATA UPDATED 10-Apr-18
 SAMPLING POINT 7,8,9,10

POINT 7 Groundwater quality monitoring - at test well 1

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | |
|---------------------------------------|-----------------------------|---------------|-----------------------|------------------|---------------------------------------------|-------------------|---------------------|-------------------|----------------------|-------|--|
| | | | | | Sample | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes | |
| | | | | | 10/01/2018 | | | | | | |
| | | | | | 7/02/2018 | | | | | | |
| Chloride | milligrams per litre | Yearly - June | Representative sample | 1 | 5730 | 1 | 5730 | 5730 | 5730 | | |
| Electrical conductivity | microsiemens per centimetre | Yearly - June | Representative sample | 1 | 22300 | 1 | 22300 | 22300 | 22300 | | |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Yearly - June | Representative sample | 1 | 12.9 | 1 | 12.9 | 12.9 | 12.9 | | |
| Nitrogen (total) | milligrams per litre | Yearly - June | Representative sample | 1 | 2 | 1 | 2 | 2 | 2 | | |
| pH | pH | Yearly - June | Representative sample | 1 | 7.2 | 1 | 7.2 | 7.2 | 7.2 | | |
| Phosphorus (total) | milligrams per litre | Yearly - June | Representative sample | 1 | 0.01 | 1 | 0.01 | 0.01 | 0.01 | | |
| Potassium | milligrams per litre | Yearly - June | Representative sample | 1 | 72.3 | 1 | 72.3 | 72.3 | 72.3 | | |
| Sodium | milligrams per litre | Yearly - June | Representative sample | 1 | 3170 | 1 | 3170 | 3170 | 3170 | | |
| Standing Water Level | metres | Yearly - June | Representative sample | 1 | 2.6 | 1 | 2.6 | 2.6 | 2.6 | | |
| Total dissolved solids | milligrams per litre | Yearly - June | Representative sample | 1 | 16200 | 1 | 16200 | 16200 | 16200 | | |

POINT 8 Groundwater quality monitoring - at test well 2

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | |
|---------------------------------------|-----------------------------|---------------|-----------------------|------------------|---------------------------------------------|-------------------|---------------------|-------------------|----------------------|-------|--|
| | | | | | Sample 2 | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes | |
| | | | | | 10/01/2018 | | | | | | |
| | | | | | 7/02/2018 | | | | | | |
| Chloride | milligrams per litre | Yearly - June | Representative sample | 1 | 4760 | 1 | 4760 | 4760 | 4760 | | |
| Electrical conductivity | microsiemens per centimetre | Yearly - June | Representative sample | 1 | 18500 | 1 | 18500 | 18500 | 18500 | | |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Yearly - June | Representative sample | 1 | 134 | 1 | 134 | 134 | 134 | | |
| Nitrogen (total) | milligrams per litre | Yearly - June | Representative sample | 1 | 136 | 1 | 136 | 136 | 136 | | |
| pH | pH | Yearly - June | Representative sample | 1 | 7.3 | 1 | 7.3 | 7.3 | 7.3 | | |
| Phosphorus (total) | milligrams per litre | Yearly - June | Representative sample | 1 | 0.01 | 1 | 0.01 | 0.01 | 0.01 | | |
| Potassium | milligrams per litre | Yearly - June | Representative sample | 1 | 86.7 | 1 | 86.7 | 86.7 | 86.7 | | |
| Sodium | milligrams per litre | Yearly - June | Representative sample | 1 | 2260 | 1 | 2260 | 2260 | 2260 | | |

| | | | | | | | | | | |
|------------------------|----------------------|---------------|-----------------------|---|-------|---|-------|-------|-------|--|
| Standing Water Level | metres | Yearly - June | Representative sample | 1 | 1.3 | 1 | 1.3 | 1.3 | 1.3 | |
| Total dissolved solids | milligrams per litre | Yearly - June | Representative sample | 1 | 12900 | 1 | 12900 | 12900 | 12900 | |

POINT 9 Groundwater quality monitoring - at test well 3

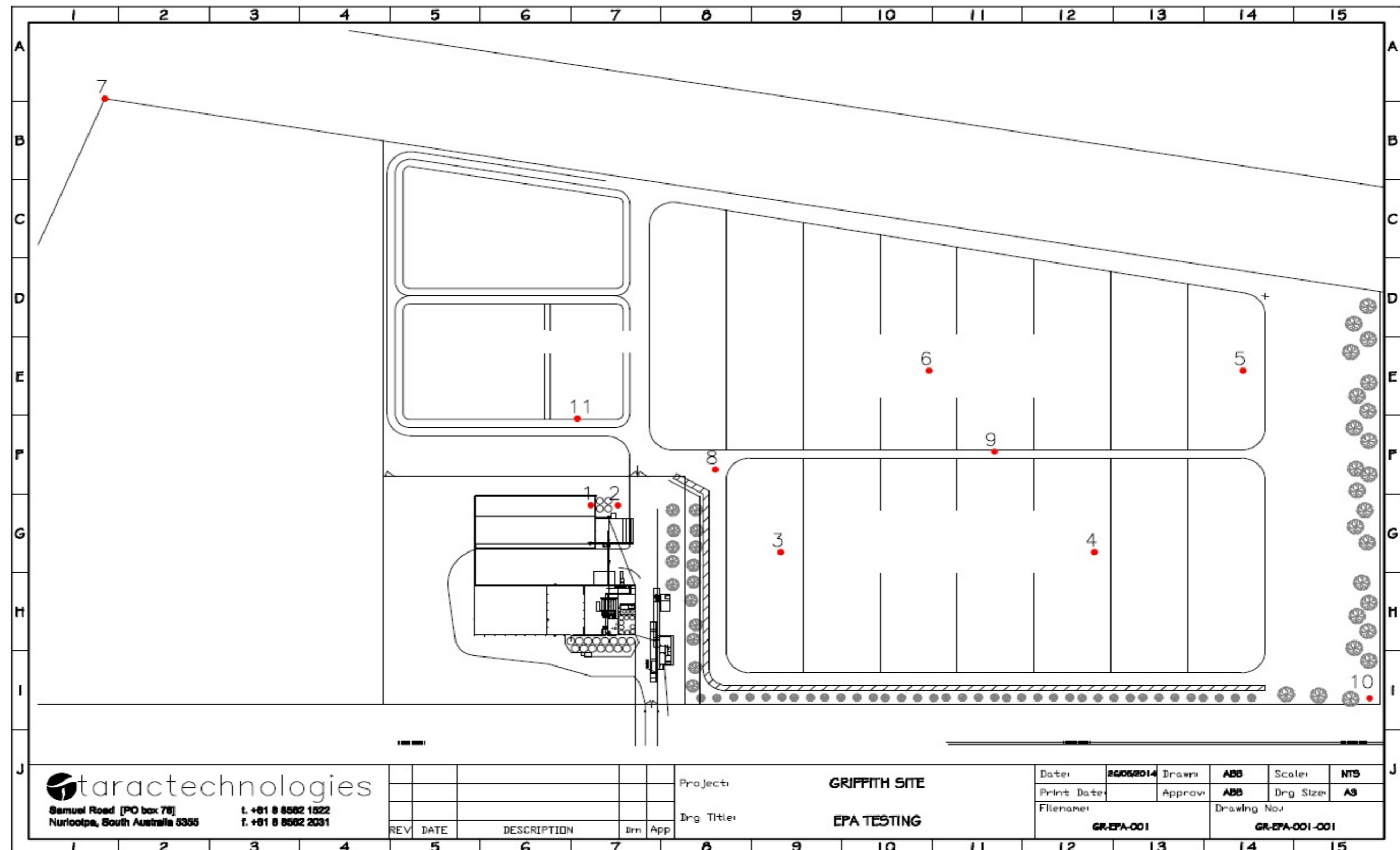
| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | |
|---------------------------------------|-----------------------------|---------------|-----------------------|------------------|---------------------------------------------|-----------------------|-------------------|---------------------|-------------------|----------------------|-------|
| | | | | | Sampling date | Sample 2 | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes |
| | | | | | | 10/01/2018 | | | | | |
| | | | | | | Results Received date | 7/02/2018 | | | | |
| Chloride | milligrams per litre | Yearly - June | Representative sample | 1 | 4030 | 1 | 4030 | 4030 | 4030 | | |
| Electrical conductivity | microsiemens per centimetre | Yearly - June | Representative sample | 1 | 17100 | 1 | 17100 | 17100 | 17100 | | |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Yearly - June | Representative sample | 1 | 17.6 | 1 | 17.6 | 17.6 | 17.6 | | |
| Nitrogen (total) | milligrams per litre | Yearly - June | Representative sample | 1 | 20 | 1 | 20 | 20 | 20 | | |
| pH | pH | Yearly - June | Representative sample | 1 | 7.1 | 1 | 7.1 | 7.1 | 7.1 | | |
| Phosphorus (total) | milligrams per litre | Yearly - June | Representative sample | 1 | 0.01 | 1 | 0.01 | 0.01 | 0.01 | | |
| Potassium | milligrams per litre | Yearly - June | Representative sample | 1 | 168 | 1 | 168 | 168 | 168 | | |
| Sodium | milligrams per litre | Yearly - June | Representative sample | 1 | 2220 | 1 | 2220 | 2220 | 2220 | | |
| Standing Water Level | metres | Yearly - June | Representative sample | 1 | 1.1 | 1 | 1.1 | 1.1 | 1.1 | | |
| Total dissolved solids | milligrams per litre | Yearly - June | Representative sample | 1 | 12000 | 1 | 12000 | 12000 | 12000 | | |

POINT 10 Groundwater quality monitoring - at test well 4

| Pollutant | Units of measure | Frequency | Sampling Method | Samples Required | REPORTING PERIOD 05-Apr-2017 to 04-Apr-2018 | | | | | | | |
|---------------------------------------|-----------------------------|---------------|-----------------------|------------------|---------------------------------------------|-----------------------|-------------------|---------------------|-------------------|----------------------|-------|--|
| | | | | | Sampling date | Sample 2 | Samples collected | Lowest Sample Value | Mean Sample Value | Highest Sample Value | Notes | |
| | | | | | | 10/01/2018 | | | | | | |
| | | | | | | Results Received date | 7/02/2018 | | | | | |
| Chloride | milligrams per litre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| Electrical conductivity | microsiemens per centimetre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| Nitrogen (total) | milligrams per litre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| pH | pH | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| Phosphorus (total) | milligrams per litre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| Potassium | milligrams per litre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| Sodium | milligrams per litre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |
| Standing Water Level | metres | Yearly - June | Representative sample | 1 | Dry | 1 | 0 | 0 | 0 | | | |
| Total dissolved solids | milligrams per litre | Yearly - June | Representative sample | 1 | | 0 | 0 | 0 | 0 | | | |

LICENCE HOLDER TARAC TECHNOLOGIES PTY LTD
 LICENCE NO. 886

| SAMPLING POINT | Type of Monitoring Point | Type of Discharge Point | Location Description |
|----------------|--------------------------------|--------------------------------|---------------------------------------------------------|
| 1 | Effluent quality monitoring | | Spent marc leachate tank |
| 2 | Effluent quality monitoring | | Wastewater irrigation tank |
| 3 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pan |
| 4 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pan |
| 5 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pan |
| 6 | Soil quality monitoring | Soil quality monitoring | Wastewater irrigation pan |
| 7 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 1 |
| 8 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 2 |
| 9 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 3 |
| 10 | Groundwater quality monitoring | Groundwater quality monitoring | Piezometer identified as No 4 |
| 11 | Mass monitoring | | Designated area labelled "Spent grape marc storage dam" |



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| REV | DATE | DESCRIPTION | Drn | App |
|-----|------|-------------|-----|-----|
| | | | | |

Project: **GRIFFITH SITE**
 Dwg Title: **EPA TESTING**

| | | | | | |
|-------------|------------|--------------|----------------|-----------|-----|
| Date: | 26/05/2014 | Drawn: | ABB | Scale: | NTS |
| Print Date: | | Approved: | ABB | Dwg Size: | A3 |
| Filename: | GR-EPA-001 | Drawing No.: | GR-EPA-001-001 | | |