

Table 1 provides a summary of the EPA monitoring points for the Rangers Valley Feedlot. This table has been reproduced from Section 2 of Environmental Protection Licence No. 3864. Click on the EPA number to view the monitoring results collected (if available).

Table 1: Summary of EPA Monitoring Points

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 2	Surface water quality monitoring		Surface water monitoring point (S2) at Cam Creek causeway on Deepwater Road at "Nant Park" labelled as EPA Point 2 on map titled Environmental Monitoring Points - Location of Surface Water Monitoring points dated 1 st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 3	Surface water quality monitoring		Surface water monitoring point (S3) at grassed waterway in Old 2 paddock labelled as EPA Point 3 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 4	Surface water quality monitoring		Surface water monitoring point (S4) at Cam Creek bridge on Rangers Valley Road labelled as EPA Point 4 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 5	Surface water quality monitoring		Surface water monitoring point (S5) at Severn River Bridge on the Yarraford Road labelled as EPA Point 5 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
EPA Monitoring Point 6	Surface water quality monitoring		Surface water monitoring point (S6) at Severn River Bridge on the Emmaville Road labelled as EPA Point 6 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 7	Surface water quality monitoring		Surface water monitoring point (S7) at Beardy Waters causeway on the Haul Rd (2 nd causeway) - upstream of confluence with Severn River, labelled as EPA Point 7 on map titled Env MP -Location of Surface Water MP dated 1st May 2007. (Fig 1).
EPA Monitoring Point 8	Surface water quality monitoring		Surface water monitoring point (S8) at Severn River causeway on the Haul Road (first causeway) labelled as EPA Point 8 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.
10	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal pond and spillway servicing Pivot 3A and 3B including pump labelled as EPA Point 10 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 250832A1/10.
EPA Monitoring Point 11	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Final effluent holding pond (on eastern side of the feedlot, known as E2) including spillway and irrigation pumps labelled as EPA Point 11 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2. 250832A1/10.
13	Wet weather discharge. Discharge quality monitoring.	Wet weather discharge. Discharge quality monitoring	Spillway for effluent holding pond known as W2 (on western side of feedlot) labelled as EPA Point 13 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 250832A1/10.
14	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal pond and spillway servicing Pivot 1 and located in the paddock Bottom Swamp including pump labelled as EPA Point 14 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10.

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 20	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent holding pond (on western side of feedlot, known as W4) including spillway and irrigation pump labelled as EPA Point 20 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. see Fig 2 250832A1/10.
22	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal pond and spillway servicing Rye East and Rye West known as W5 including pump labelled as EPA Point 22 on map titled Env MPs-Location of Effluent MP dated 1 st May 2007. see Fig 2 250832A1/10.
EPA Monitoring Point 24	Manure quality monitoring. Mass monitoring.		Manure stockpile and composting area containing screened and unscreened manure and labelled as EPA Point 24 on map titled Env MPs-Location of Effluent MP dated 1 st May 2007. see Fig 2 250832A1/10.
EPA Monitoring Point 26	Discharge quality monitoring.		Dam located in the bottom corner of "Washpool Road" (13) paddock labelled as EPA Point 26 on map titled Env MPs-Location of Effluent MP dated 1 st May 2007. see Fig 2 250832A1/10.
27	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Pivot 1 labelled as EPA Point 27 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
28	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Pivot 3A labelled as EPA Point 28 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
29	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Pivot 3B labelled as EPA Point 29 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
30	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Rye East labelled as EPA Point 30 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.

EPA No.	Type of monitoring point	Type of discharge point	Description of location
31	Soil quality monitoring. Mass monitoring.		Effluent utilisation area known as Rye West labelled as EPA Point 31 on map titled "Rangers Valley Cattle Station Site Plan" dated 30.07.03.
EPA Monitoring Point 34	Groundwater quality monitoring.		Groundwater monitoring bore (34 located in corner paddock) labelled as EPA Point 34 on map titled Env MP-Location of piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 35	Groundwater quality monitoring.		Groundwater monitoring bore (35 located in the laneway north of Rye East paddock) labelled as EPA Point 35 on map titled Env MP-Location of piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 36	Groundwater quality monitoring.		Groundwater monitoring bore (36 located between ponds W3 and W4) labelled as EPA Point 36 on map titled Env MP-Location of piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 38	Groundwater quality monitoring.		Groundwater monitoring bore (38 located on eastern point of effluent pond E2) labelled as EPA Point 38 on map titled Env MP-Location of piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 40	Groundwater quality monitoring.		Groundwater monitoring bore (40 located on adjoining fence line between Pivot 3A/3B) on map titled Env MP-Location of piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 41	Groundwater quality monitoring.		Groundwater monitoring bore (41 below EPA point 14 in paddock Bottom Swamp) labelled as EPA Point 41 on map titled Env MP-Location of piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 42	Groundwater quality monitoring.		Groundwater monitoring bore (42 located in laneway between Pivot 1 and effluent pond E2) labelled as EPA Point 42 on map titled Env MP-Location of piezometer MP dated 1 st May 2007. see Fig 3

EPA No.	Type of monitoring point	Type of discharge point	Description of location
43	Soil quality monitoring. Mass monitoring		Utilisation area identified as the 'solid utilisation areas as identified on drawing No 19045-05 as quoted in the consent conditions' on map titled "Map 1 - Rangers Valley Cattle Station" submitted with a letter to the EPA on 25 October 2006.
EPA Monitoring Point 44	Groundwater quality monitoring.		Groundwater monitoring bore (44 located in the north eastern grassed area of the paddock known as Old 2) labelled as EPA point 44 on map titled Env MP-Location of Peizometer MP dated 1 st May 2007. see Fig 3. 250832A1/10.
EPA Monitoring Point 45	Groundwater quality monitoring.		Groundwater monitoring bore (45 located on eastern boundary of the paddock known as "Donnellys Elect" labelled as EPA point 45 on map Titled Env MP location of Piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 46	Groundwater quality monitoring.		Groundwater monitoring bore (46 located in paddock known as "Oaks Road") labelled as EPA point 46 on map Titled Env MP-location of Piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 47	Groundwater quality monitoring.		Groundwater monitoring bore (47 located in paddock known as Horse" labelled as EPA point 47 on map Titled Env MP-location of Piezometer MP dated 1 st May 2007. see Fig 3
48	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal Pond One and spillway servicing Pivot 2c located in the paddock known as Spillway including pump labelled as EPA Point 48 on map Titled Environmental Monitoring Points-location of Effluent MP dated 1 st May 2007. see Fig 2

EPA No.	Type of monitoring point	Type of discharge point	Description of location
49	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal Pond Two and spillway servicing Pivot 2B and located in paddock known as Pivot 2B including pump labelled as EPA Point 49 on map Titled Env MP-location of Effluent MP dated 1 st May 2007. see Fig 2
50	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Effluent quality and volume monitoring. Wet weather discharge. Discharge quality monitoring. Discharge to utilisation area.	Terminal Pond 3 and spillway servicing Pivot 2B and 2C located in the paddock known as "wally's" including pump labelled as EPA Point 50 on map Titled Env MP-location of Effluent MP dated 1 st May 2007. Fig 2
51	Soil quality monitoring. Mass monitoring		Effluent utilisation area known as Pivot 2B labelled as EPA Pont 51 on map titled "Rangers Valley Cattle Station" Site Plan date 30.07.03
52	Soil quality monitoring. Mass monitoring		Effluent utilisation known as Pivot 2C labelled as EPA Point 52 on map titled "Rangers Valley Cattle Station Site Plan date 30.07.03
EPA Monitoring Point 53	Groundwater quality monitoring.		Groundwater monitoring bore (53 located west of Terminal Pond 1 in the paddock known as spillway) labelled as EPA point 53 on map Titled Env MP-location of Piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 54	Groundwater quality monitoring.		Groundwater monitoring bore (54 located north of Terminal Pond Two in the paddock known as Pivot 2b) labelled as EPA point 54 on map Titled Env MP location of Piezometer MP dated 1 st May 2007. see Fig 3
EPA Monitoring Point 55	Groundwater quality monitoring.		Groundwater monitoring bore (55 located south of Terminal Pond Three in the paddock known as Wallys) labelled as EPA point 55 on map Titled Env MP-location of Piezometer MP dated 1 st May 2007. see Fig 3

EPA No.	Type of monitoring point	Type of discharge point	Description of location
EPA Monitoring Point 56	Groundwater quality monitoring.		Groundwater monitoring bore (56 located south of the northern holding pond N1 in the paddock known as Irrigation 1) labelled as EPA point 56 on map titled Env MP dated 1 st May 2007. see Fig 3. 250832A1/10
EPA Monitoring Point 57	Effluent Quality and Volume monitoring. Discharge to utilisation area.		Effluent holding pond (known as N1) irrigation pump labelled as EPA point 57 on map titled Env MP- Location of Effluent MP dated 1 st May 2007. see Fig 2. 250832A1/10.

EPA MONITORING POINT 2

Surface water monitoring point (S2) at Cam Creek causeway on Deepwater Road at "Nant Park" labelled as EPA Point 2 on map titled Environmental Monitoring Points - Location of Surface Water Monitoring points dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 2)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Chloride	mg/L	71		22	79	49
Nitrate	mg/L	1.5		<1	2	<1.0
Total Kjeldahl Nitrogen	mg/L	<1		2	<1	6
pH	-	7.89		7.29	8.00	7.77
Conductivity	µS/cm	787		322	657	631
SAR	-	2		<1	2	2
Phosphorus (Reactive)	mg/L	0.5	DRY	<0.1	<0.1	<0.1
Nitrogen (Total)	mg/L	<1		2	1	6
Suspended Solids	mg/L	<10		12	<10	14
Calcium	mg/L	41		31	36	40
Potassium	mg/L	5		1	6	3
Magnesium	mg/L	30		20	26	30
Sodium	mg/L	60		32	78	60
Phosphorus (Total)	mg/L	<1		<1	<1	<1
Nitrogen (Ammonia)	mg/L	0.2		0.1	<1	<0.1

Collected during pond overflow event.

EPA MONITORING POINT 3

Surface water monitoring point (S3) at grassed waterway in Old 2 paddock labelled as EPA Point 3 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 3)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Chloride	mg/L		43	28	33	2
Nitrate	mg/L		<1.0	<1.0	3	<1.0
Total Kjeldahl Nitrogen	mg/L		27	46	8	20
pH	-		7.05	6.97	7.52	7.38
Conductivity	µS/cm		352	255	359	632
SAR	-		<1	<1	<1	<1
Phosphorus (Reactive)	mg/L		13	0.2	<0.1	<0.1
Nitrogen (Total)	mg/L		27	46	9	20
Suspended Solids	mg/L		340	520	13	1120
Calcium	mg/L		9	13	17	20
Potassium	mg/L		99	84	84	100
Magnesium	mg/L		6	9	10	16
Sodium	mg/L		9	9	8	15
Phosphorus (Total)	mg/L		8	9	1	2
Nitrogen (Ammonia)	mg/L		6.1	0.1	<1	33

Collected during pond overflow event.

EPA MONITORING POINT 4

Surface water monitoring point (S4) at Cam Creek bridge on Rangers Valley Road labelled as EPA Point 4 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 4)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Chloride	mg/L	160	130	48	140	80
Nitrate	mg/L	1.6	<1.0	<1.0	2	<1.0
Total Kjeldahl Nitrogen	mg/L	<1	4	2	2	6
pH	-	8.15	8.00	7.76	8.29	7.81
Conductivity	µS/cm	1120	891	462	870	730
SAR	-	3	2	2	2	2
Phosphorus (Reactive)	mg/L	0.7	1.5	0.3	0.2	<0.1
Nitrogen (Total)	mg/L	1	4	2	2	7
Suspended Solids	mg/L	<10	35	10	<10	15
Calcium	mg/L	56	43	35	51	45
Potassium	mg/L	13	15	8	9	7
Magnesium	mg/L	43	42	23	41	32
Sodium	mg/L	120	91	56	96	72
Phosphorus (Total)	mg/L	<1	1	<1	<1	<1
Nitrogen (Ammonia)	mg/L	0.1	0.1	0.2	<1	<0.1

Collected during pond overflow event.

EPA MONITORING POINT 5

Surface water monitoring point (S5) at Severn River Bridge on the Yarraford Road labelled as EPA Point 5 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 5)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Chloride	mg/L	<1.0	<1.0	3.9	13	21
Nitrate	mg/L	1.3	<1.0	<1.0	<1	<1.0
Total Kjeldahl Nitrogen	mg/L	<1	2	2	<1	7
pH	-	7.61	7.25	7.26	7.69	7.60
Conductivity	µS/cm	166	90.8	64.5	130	161
SAR	-	1	1	<1	1	1
Phosphorus (Reactive)	mg/L	0.5	<1.0	<0.1	<0.1	<0.1
Nitrogen (Total)	mg/L	<1	3	2	<1	7
Suspended Solids	mg/L	<10	<10	<10	<10	<10
Calcium	mg/L	8	5	4	6	8
Potassium	mg/L	2	3	1	2	2
Magnesium	mg/L	5	3	2	4	6
Sodium	mg/L	16	12	9	18	18
Phosphorus (Total)	mg/L	<1	<1	<1	<1	<1
Nitrogen (Ammonia)	mg/L	0.2	<0.1	0.1	<1	<0.1

Collected during pond overflow event.

EPA MONITORING POINT 6

Surface water monitoring point (S6) at Severn River Bridge on the Emmaville Road labelled as EPA Point 6 on map titled Environmental Monitoring Points -Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 6)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Chloride	mg/L	5.5	<1.0	6.6	30	19
Nitrate	mg/L	1.1	1.0	<1.0	<1	<1.0
Total Kjeldahl Nitrogen	mg/L	<1	2	2	<1	6
pH	-	8.27	7.78	7.57	8.31	8.20
Conductivity	µS/cm	285	176	115	241	322
SAR	-	<1	<1	<1	<1	<1
Phosphorus (Reactive)	mg/L	0.4	<1.0	<0.1	<0.1	<0.1
Nitrogen (Total)	mg/L	<0.1	2	2	<1	6
Suspended Solids	mg/L	<10	12	10	<10	<10
Calcium	mg/L	22	12	9	18	23
Potassium	mg/L	3	4	2	2	2
Magnesium	mg/L	21	13	7	18	24
Sodium	mg/L	18	14	11	21	20
Phosphorus (Total)	mg/L	<1	<1	<1	<1	<1
Nitrogen (Ammonia)	mg/L	<0.1	<0.1	0.1	<1	<0.1

Collected during pond overflow event.

EPA MONITORING POINT 7

Surface water monitoring point (S7) at Beardy Waters causeway on the Haul Rd (2nd causeway) - upstream of confluence with Severn River, labelled as EPA Point 7 on map titled Env MP -Location of Surface Water MP dated 1st May 2007. See Fig 1.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 7)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Chloride	mg/L	1.6	15	6.8	12	18
Nitrate	mg/L	1.1	1.5	<1.0	<1	<1.0
Total Kjeldahl Nitrogen	mg/L	<1	1	2	<1	6
pH	-	8.58	8.34	8.25	8.52	8.45
Conductivity	µS/cm	435	277	256	337	389
SAR	-	<1	<1	<1	<1	<1
Phosphorus (Reactive)	mg/L	0.5	<1.0	<0.1	<0.1	<0.1
Nitrogen (Total)	mg/L	<1	2	2	<1	6
Suspended Solids	mg/L	<10	<10	10	<10	<10
Calcium	mg/L	29	20	23	27	29
Potassium	mg/L	3	3	2	2	3
Magnesium	mg/L	33	29	18	30	35
Sodium	mg/L	18	17	13	20	18
Phosphorus (Total)	mg/L	<1	<1	<1	<1	<1
Nitrogen (Ammonia)	mg/L	<0.1	2	0.1	<1	<0.1

Collected during pond overflow event.

EPA MONITORING POINT 8

Surface water monitoring point (S8) at Severn River causeway on the Haul Road (first causeway) labelled as EPA Point 8 on map titled Environmental Monitoring Points - Location of Surface Water MP dated 1st May 2007. See Fig 1 - 250832A1/10.

SURFACE WATER ANALYSIS RESULTS (EPA POINT 8)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Chloride	mg/L	3.1	<1.0	<1.0	14	8.5
Nitrate	mg/L	1.2	<1.0	<1.0	<1	<1.0
Total Kjeldahl Nitrogen	mg/L	<1	2	2	<1	6
pH	-	8.75	7.91	7.64	8.48	8.40
Conductivity	µS/cm	325	205	116	279	282
SAR	-	<1	<1	<1	<1	<1
Phosphorus (Reactive)	mg/L	0.5	<1.0	<0.1	<0.1	<0.1
Nitrogen (Total)	mg/L	<1	2	2	<1	6
Suspended Solids	mg/L	<10	10	12	<10	<10
Calcium	mg/L	20	13	10	21	20
Potassium	mg/L	3	3	2	2	2
Magnesium	mg/L	21	15	6	23	22
Sodium	mg/L	18	14	11	19	19
Phosphorus (Total)	mg/L	<1	<1	<1	<1	<1
Nitrogen (Ammonia)	mg/L	0.1	<0.1	<0.1	<1	<0.1

Collected during pond overflow event.

EPA MONITORING POINT 11

Final effluent holding pond (on eastern side of the feedlot, known as E2) including spillway and irrigation pumps labelled as EPA Point 11 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 11)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (Ammonia)	mg/L	90	54	37	41	68
Chloride	mg/L	360	410	310	460	530
Nitrate	mg/L	1.5	<1.0	<1.0	<1	<1.0
Phosphorus (Reactive)	mg/L	64	90	8.0	39	14
pH	-	7.67	7.87	8.04	8.09	7.99
Conductivity	µS/cm	3220	2630	2450	2800	3260
SAR	-	2	2	2	3	3
Phosphorus (Total)	mg/L	7	55	53	48	59
Nitrogen (Total)	mg/L	111	106	99	88	28
TKN	mg/L	110	106	99	88	28
Suspended Solids	mg/L	278	428	553	153	350
Calcium	mg/L	69	46	39	34	65
Potassium	mg/L	55	489	493	564	687
Magnesium	mg/L	68	74	56	56	72
Sodium	mg/L	74	85	96	120	140

Collected during pond overflow event.

EPA MONITORING POINT 20

Effluent holding pond (on western side of feedlot, known as W4) including spillway and irrigation pump labelled as EPA Point 20 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 20)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (Ammonia)	mg/L	2	0.4	3	2	0.2
Chloride	mg/L	490	460	350	360	380
Nitrate	mg/L	2.2	<1.0	41	5	6.7
Phosphorus (Reactive)	mg/L	18	32	25	19	10
pH	-	9.10	8.99	7.72	8.72	8.08
Conductivity	µS/cm	2520	2170	1940	1990	2390
SAR	-	3	3	2	2	2
Phosphorus (Total)	mg/L	18	18	30	28	34
Nitrogen (Total)	mg/L	14	28	26	21	16
TKN	mg/L	13	28	17	20	15
Suspended Solids	mg/L	15	222	94	100	39
Calcium	mg/L	17	17	37	24	46
Potassium	mg/L	463	443	404	409	455
Magnesium	mg/L	43	45	42	43	53
Sodium	mg/L	91	110	87	92	100

Collected during pond overflow event.

EPA MONITORING POINT 24

Manure stockpile and composting area containing screened and unscreened manure and labelled as EPA Point 24 on map titled Env MPs- Location of Effluent MP dated 1st May 2007. See Fig 2 250832A1/10.

MANURE ANALYSIS RESULTS (EPA POINT 24)

Sampled		10-Sept-13	10-Sept-13			
Obtained		13-Sept-13	13-Sept-13			
Published		2-Oct-13	2-Oct-13			
Pollutant	Unit of measure	Screened Result	Unscreened Result	Screened Result	Unscreened Result	Result
Moisture	%	27.4	46.3			
Nitrate	mg/kg	<200	<200			
Nitrogen (Total)	mg/kg	1.9	4.5			
pH	-	7.27	6.89			
Calcium	mg/kg	1.4	1.6			
Phosphorus (Total)	mg/kg	0.23	0.28			
Organic Carbon	%	18.5	31.4			
Potassium	mg/kg	1.2	1.7			
Magnesium	mg/kg	0.54	0.71			
Sodium	mg/kg	0.20	0.24			
Conductivity	µS/cm	8.61	10.92			
SAR	-	3	3			
Sulphur	mg/kg	0.33	0.46			
Chloride	mg/kg	<45	<45			
Zinc	mg/kg	180	200			

EPA MONITORING POINT 26

Dam located in the bottom corner of "Washpool Road" (13) paddock labelled as EPA Point 26 on map titled Env MPs-Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 26)

Sampled		11-Sep-12	19-Mar-13	10-Sept-13		
Obtained		26-Sep-12	10-Apr-13	13-Sept-13		
Published		09-Oct-12	8-May-13	2-Oct-13		
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (Ammonia)	mg/L	<1	2	12		
Chloride	mg/L	260	80	140		
Nitrate	mg/L	1.9	<1.0	<1.0		
Phosphorus (Reactive)	mg/L	3.8	7.4	1.6		
pH	-	7.83	7.64	7.90		
Conductivity	µS/cm	967	618	946		
SAR	-	2	1	2		
Phosphorus (Total)	mg/L	6	7	5		
Nitrogen (Total)	mg/L	11	7	13		
TKN	mg/L	11	7	13		
Suspended Solids	mg/L	128	23	16		
Calcium	mg/L	15	18	19		
Potassium	mg/L	153	127	154		
Magnesium	mg/L	16	16	20		
Sodium	mg/L	57	31	46		

* Collected during pond overflow event.

EPA MONITORING POINT 34

Groundwater monitoring bore (34 located in corner paddock) labelled as EPA Point 34 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 34)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	0.1	3.1			
Nitrogen (nitrate)	mg/L	72	27			
Phosphorus (Reactive)	mg/L	<1.0	<1.0			
pH	-	7.67	7.57			
Conductivity	µS/cm	1240	1090			
Phosphorus (total)	mg/L	<1	1			
Nitrogen (total)	mg/L	17	11			
Suspended Solids	mg/L	<10	286			

EPA MONITORING POINT 35

Groundwater monitoring bore (35 located in the laneway north of Rye East paddock) labelled as EPA Point 35 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 35)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	0.2			
Nitrogen (nitrate)	mg/L	8.4	<1.0			
Phosphorus (Reactive)	mg/L	<1.0	<1.0			
pH	-	6.69	6.68			
Conductivity	µS/cm	1190	1330			
Phosphorus (total)	mg/L	2	<1			
Nitrogen (total)	mg/L	5	2			
Suspended Solids	mg/L	1720	150			

EPA MONITORING POINT 36

Groundwater monitoring bore (36 located between ponds W3 and W4) labelled as EPA Point 36 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 36)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	38	35			
Phosphorus (Reactive)	mg/L	1.2	<1.0			
pH	-	8.16	8.11			
Conductivity	µS/cm	3240	3290			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	8	8			
Suspended Solids	mg/L	<10	<10			

EPA MONITORING POINT 38

Groundwater monitoring bore (located on eastern point of effluent pond E2) labelled as EPA Point 38 on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 38)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	160	160			
Phosphorus (Reactive)	mg/L	1.5	<1.0			
pH	-	6.50	6.31			
Conductivity	µS/cm	1030	1730			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	34	36			
Suspended Solids	mg/L	16	<10			

EPA MONITORING POINT 40

Groundwater monitoring bore (40 located on adjoining fence line between Pivot 3A/3B) on map titled Env MP-Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 40)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	39	35			
Phosphorus (Reactive)	mg/L	<1.0	<1.0			
pH	-	7.38	7.42			
Conductivity	µS/cm	1220	1200			
Phosphorus (total)	mg/L	<1	<1.0			
Nitrogen (total)	mg/L	8	9			
Suspended Solids	mg/L	11	23			

EPA MONITORING POINT 41

Groundwater monitoring bore (41 below EPA point 14 in paddock Bottom Swamp) labelled as EPA Point 41 on map titled Env MP Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 41)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	48	40			
Phosphorus (Reactive)	mg/L	<1.0	<1.0			
pH	-	7.00	6.89			
Conductivity	µS/cm	2910	2910			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	10	9			
Suspended Solids	mg/L	31	19			

EPA MONITORING POINT 42

Groundwater monitoring bore (42 located in laneway between Pivot 1 and effluent pond E2) labelled as EPA Point 42 on map titled Env MP- Location of piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 42)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	85	40			
Phosphorus (Reactive)	mg/L	14	<1.0			
pH	-	6.70	6.62			
Conductivity	µS/cm	2530	2560			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	21	10			
Suspended Solids	mg/L	15	10			

EPA MONITORING POINT 44

Groundwater monitoring bore (44 located in the north eastern grassed area of the paddock known as Old 2) labelled as EPA point 44 on map titled Env MP-Location of Peizometer MP dated 1st May 2007. See Fig 3 - 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 44)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	4.3	4.4			
Phosphorus (Reactive)	mg/L	1.0	<1.0			
pH	-	7.15	7.04			
Conductivity	µS/cm	582	574			
Phosphorus (total)	mg/L	<1	<1.0			
Nitrogen (total)	mg/L	2	3			
Suspended Solids	mg/L	16	17			

EPA MONITORING POINT 45

Groundwater monitoring bore (45 located on eastern boundary of the paddock known as "Donnellys Elect" labelled as EPA point 45 on map titled Env MP location of Piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 45)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	15	22			
Phosphorus (Reactive)	mg/L	<1.0	<1.0			
pH	-	7.15	7.24			
Conductivity	µS/cm	335	332			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	4	4			
Suspended Solids	mg/L	13	<10			

EPA MONITORING POINT 46

Groundwater monitoring bore (46 located in paddock known as "Oaks Road") labelled as EPA point 46 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 46)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	12	18			
Phosphorus (Reactive)	mg/L	1.4	<1.0			
pH	-	7.53	7.52			
Conductivity	µS/cm	1010	990			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	3	6			
Suspended Solids	mg/L	12	22			

EPA MONITORING POINT 47

Groundwater monitoring bore 47 located in paddock known as "Horse" labelled as EPA point 47 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 47)

Sampled		25-Oct-12	12-Apr-13			
Obtained		DRY	DRY			
Published						
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L					
Nitrogen (nitrate)	mg/L					
Phosphorus (Reactive)	mg/L					
pH	-	DRY	DRY			
Conductivity	µS/cm					
Phosphorus (total)	mg/L					
Nitrogen (total)	mg/L					
Suspended Solids	mg/L					

EPA MONITORING POINT 53

Groundwater monitoring bore 53 located west of Terminal Pond 1 in the paddock known as spillway labelled as EPA point 53 on map Titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 53)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	<1.0	<1.0			
Phosphorus (Reactive)	mg/L	1.0	<1.0			
pH	-	7.38	7.35			
Conductivity	µS/cm	536	479			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	1	<1			
Suspended Solids	mg/L	<10	<10			

EPA MONITORING POINT 54

Groundwater monitoring bore 54 located north of Terminal Pond Two in the paddock known as Pivot 2b labelled as EPA point 54 on map titled Env MP location of Piezometer MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 54)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	22	27			
Phosphorus (Reactive)	mg/L	1.3	<1.0			
pH	-	6.85	6.82			
Conductivity	µS/cm	480	412			
Phosphorus (total)	mg/L	<1	<1			
Nitrogen (total)	mg/L	5	5			
Suspended Solids	mg/L	30	75			

EPA MONITORING POINT 55

Groundwater monitoring bore 55 located south of Terminal Pond Three in the paddock known as "Wallys" labelled as EPA point 55 on map titled Env MP-location of Piezometer MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 55)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	<0.1	<0.1			
Nitrogen (nitrate)	mg/L	<1.0	<1.0			
Phosphorus (Reactive)	mg/L	1.0	<1.0			
pH	-	7.28	7.25			
Conductivity	µS/cm	469	452			
Phosphorus (total)	mg/L	<1	<1.0			
Nitrogen (total)	mg/L	1	<1			
Suspended Solids	mg/L	<10	14			

EPA MONITORING POINT 56

Groundwater monitoring bore (56 located south of the northern holding pond N1 in the paddock known as Irrigation 1) labelled as EPA point 56 on map titled Env MP dated 1st May 2007. See Fig 3. 250832A1/10.

GROUNDWATER ANALYSIS RESULTS (EPA POINT 56)

Sampled		25-Oct-12	12-Apr-13			
Obtained		23-Nov-12	26-Apr-13			
Published		30-Nov-12	8-May-13			
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (ammonia)	mg/L	0.2	<0.1			
Nitrogen (nitrate)	mg/L	17	22			
Phosphorus (Reactive)	mg/L	<1.0	<1.0			
pH	-	7.11	7.48			
Conductivity	µS/cm	835	825			
Phosphorus (total)	mg/L	<1	<1.0			
Nitrogen (total)	mg/L	6	5			
Suspended Solids	mg/L	35	11			

EPA MONITORING POINT 57

Effluent holding pond (known as N1) irrigation pump labelled as EPA point 57 on map titled Env MP- Location of Effluent MP dated 1st May 2007. See Fig 2 - 250832A1/10.

EFFLUENT ANALYSIS RESULTS (EPA POINT 57)

Sampled		11-Sep-12	11-Dec-12	19-Mar-13	11-June-13	10-Sept-13
Obtained		26-Sep-12	20-Dec-12	10-Apr-13	26-June-13	13-Sept-13
Published		09-Oct-12	27-Dec-12	8-May-13	9-July-13	2-Oct-13
Pollutant	Unit of measure	Result	Result	Result	Result	Result
Nitrogen (Ammonia)	mg/L	<1	2.8	31	10	5.8
Chloride	mg/L	260	250	230	240	250
Nitrate	mg/L	20	<1.0	<1.0	33	4.7
Phosphorus (Reactive)	mg/L	31	56	32	32	6.1
pH	-	8.11	8.22	7.91	7.77	8.17
Conductivity	µS/cm	1820	1570	1750	1670	1690
SAR	-	2	2	2	2	2
Phosphorus (Total)	mg/L	32	20	32	31	18
Nitrogen (Total)	mg/L	12	15	39	29	15
TKN	mg/L	8	15	39	21	14
Suspended Solids	mg/L	50	75	44	28	155
Calcium	mg/L	43	30	48	44	31
Potassium	mg/L	235	269	268	258	275
Magnesium	mg/L	46	50	47	47	49
Sodium	mg/L	67	77	2	81	86

* Collected during pond overflow event.