

Concentration Monitoring Summary
Jindabyne Regional Waste Management Facility 6013 Kosciuszko Road Jindabyne NSW
EPA Licence 20060

Data Last Updated on **Tuesday, 18 September 2018**

Monitoring Location 1		Units	No. of samples required by licence	No. of samples collected and analysed	Date Data was Obtained			Units of Measure		
Leachate Dam Primary GPS Coordinates -36.43736 148.62392					15/06/2016			Lowest	Mean	Highest
EPA Analysis	Alkalinity (as calcium carbonate)	mg/L	1	1	170			170	170	170
	Ammonia	mg/L	1	1	12.1			12.1	12.1	12.1
	Calcium	mg/L	1	1	67.1			67.1	67.1	67.1
	Chloride	mg/L	1	1	93			93	93	93
	Fluoride	mg/L	1	1	0.2			0.2	0.2	0.2
	Iron	mg/L	1	1	2.72			2.72	2.72	2.72
	Magnesium	mg/L	1	1	14.5			14.5	14.5	14.5
	Manganese	mg/L	1	1	0.16			0.16	0.16	0.16
	Nitrate	mg/L	1	1	1.34			1.34	1.34	1.34
	pH	pH	1	1	7.7			7.7	7.7	7.7
	Potassium	mg/L	1	1	30			30	30	30
	Sodium	mg/L	1	1	71.6			71.6	71.6	71.6
	Sulfate	mg/L	1	1	158			158	158	158
	Total organic carbon	mg/L	1	1	25			25	25	25
	Total Phenolics	mg/L	1	1	<0.05					
	Zinc	mg/L	1	1	0.025			0.025	0.025	0.025
	Aluminium (total)	mg/L	1	1	3.09			3.09	3.09	3.09
	Arsenic	µg/L	1	1	4			4	4	4
	Barium	µg/L	1	1	129			129	129	129
	Benzene	µg/L	1	1	<1					
	Cadmium	µg/L	1	1	0.1			0.1	0.1	0.1
	Chromium (hexavalent)	mg/L	1	1	<0.01					
	Chromium (total)	mg/L	1	1	0.005			0.005	0.005	0.005
	Cobalt	µg/L	1	1	4.6			4.6	4.6	4.6
	Copper	µg/L	1	1	22			22	22	22
	Ethyl benzene	µg/L	1	1	<2					
	Lead	µg/L	1	1	1.8			1.8	1.8	1.8
	Mercury	µg/L	1	1	<0.1					
	Nitrite	mg/L	1	1	0.14			0.14	0.14	0.14
	Nitrogen (ammonia)	mg/L	1	1	17.1			17.1	17.1	17.1
	Organochlorine pesticides	µg/L	1	1	<2.0					
	Organophosphate pesticides	µg/L	1	1	<1.0					
	Polycyclic aromatic hydrocarbons	µg/L	1	1	<1.0					
Toluene	µg/L	1	1	<2						
Total dissolved solids (TDS)	mg/L	1	1	616			616	616	616	
Total petroleum hydrocarbons	µg/L	1	1	100			100	100	100	
Xylene	µg/L	1	1	<2						

* Indicates that the monitoring location was dry

Monitoring Location 4		Units	No. of samples required by licence	No. of samples collected and analysed	Date Data was Obtained			Units of Measure		
Ground Water 1 Bore Hole 101 GPS Coordinates -36.436511 148.621315					22/09/2015	21/12/2015	24/03/2016	Lowest	Mean	Highest
EPA Analysis	Adsorbable organic halogens	µg/L	4	3	*	*	*			
	Alkalinity (as calcium carbonate)	mg/L	4	3	*	*	*			
	Ammonia	mg/L	4	3	*	*	*			
	Calcium	mg/L	4	3	*	*	*			
	Chloride	mg/L	4	3	*	*	*			
	Fluride	mg/L	4	3	*	*	*			
	Iron	mg/L	4	3	*	*	*			
	Magnesium	mg/L	4	3	*	*	*			
	Manganese	mg/L	4	3	*	*	*			
	Nitrate	mg/L	4	3	*	*	*			
	pH	pH	4	3	*	*	*			
	Potassium	mg/L	4	3	*	*	*			
	Sodium	mg/L	4	3	*	*	*			
	Standing Water Level	m	4	3	*	*	*			
	Sulfate	mg/L	4	3	*	*	*			
	Total organic carbon	mg/L	4	3	*	*	*			
	Total phenolics	mg/L	4	3	*	*	*			
	Aluminium (total)	mg/L	1	3	*	*	*			
	Arsenic	mg/L	1	3	*	*	*			
	Barium	mg/L	1	3	*	*	*			
	Benzene	µg/L	1	3	*	*	*			
	Cadmium	mg/L	1	3	*	*	*			
	Chromium (hexavalent)	mg/L	1	3	*	*	*			
	Chromium (total)	mg/L	1	3	*	*	*			
	Cobalt	µg/L	1	3	*	*	*			
	Copper	µg/L	1	3	*	*	*			
	Ethyl benzene	µg/L	1	3	*	*	*			
	Lead	µg/L	1	3	*	*	*			
	Mercury	µg/L	1	3	*	*	*			
	Nitrite	mg/L	1	3	*	*	*			
	Nitrogen (ammonia)	mg/L	1	3	*	*	*			
	Organochlorine pesticides	µg/L	1	3	*	*	*			
	Organophosphate pesticides	µg/L	1	3	*	*	*			
Polycyclic aromatic hydrocarbons	µg/L	1	3	*	*	*				
Toluene	µg/L	1	3	*	*	*				
Total dissolved solids (TDS)	mg/L	1	3	*	*	*				
Total petroleum hydrocarbons	µg/L	1	3	*	*	*				
Xylene	µg/L	1	3	*	*	*				

* Indicates that the monitoring location was dry

Monitoring Location 5		Units	No. of samples required by licence	No. of samples collected and analysed	Date Data was Obtained			Units of Measure			
Ground Water 2 Bore Hole 102 GPS Coordinates -36.438189 148.622499					22/09/2015	21/12/2015	24/03/2016	Lowest	Mean	Highest	
EPA Analysis	Adsorbable organic halogens	µg/L	4	3	*	*	23	23	23	23	
	Alkalinity (as calcium carbonate)	mg/L	4	3	*	*	143	143	143	143	
	Ammonia	mg/L	4	3	*	*	<0.1				
	Calcium	mg/L	4	3	*	*	54.8	54.8	54.8	54.8	
	Chloride	mg/L	4	3	*	*	10.2	10.2	10.2	10.2	
	Fluride	mg/L	4	3	*	*	0.1	0.1	0.1	0.1	
	Iron	mg/L	4	3	*	*	1.04	1.04	1.04	1.04	
	Magnesium	mg/L	4	3	*	*	12.2	12.2	12.2	12.2	
	Manganese	mg/L	4	3	*	*	0.046	0.046	0.046	0.046	
	Nitrate	mg/L	4	3	*	*	4.92	4.92	4.92	4.92	
	pH	pH	4	4	3	*	*	7.27	7.27	7.27	7.27
	Potassium	mg/L	4	3	*	*	3.2	3.2	3.2	3.2	
	Sodium	mg/L	4	3	*	*	16.2	16.2	16.2	16.2	
	Standing Water Level	m	4	4	2	*	*				
	Sulfate	mg/L	4	3	3	*	*	25.9	25.9	25.9	25.9
	Total organic carbon	mg/L	4	3	3	*	*	4	4	4	4
	Total phenolics	mg/L	4	3	3	*	*	<0.05			
	Aluminium (total)	mg/L	1	1	2	*	*				
	Arsenic	mg/L	1	1	2	*	*				
	Barium	mg/L	1	1	2	*	*				
	Benzene	µg/L	1	1	3	*	*	<1			
	Cadmium	mg/L	1	1	2	*	*				
	Chromium (hexavalent)	mg/L	1	1	2	*	*				
	Chromium (total)	mg/L	1	1	3	*	*	0.011	0.011	0.011	0.011
	Cobalt	µg/L	1	1	3	*	*	0.9	0.9	0.9	0.9
	Copper	µg/L	1	1	3	*	*	6	6	6	6
	Ethyl benzene	µg/L	1	1	3	*	*	<2			
	Lead	µg/L	1	1	3	*	*	5.1	5.1	5.1	5.1
	Mercury	µg/L	1	1	3	*	*	<0.1			
	Nitrite	mg/L	1	1	3	*	*	<0.01			
	Nitrogen (ammonia)	mg/L	1	1	2	*	*				
	Organochlorine pesticides	µg/L	1	1	3	*	*	<2.0			
Organophosphate pesticides	µg/L	1	1	3	*	*	<2.0				
Polycyclic aromatic hydrocarbons	µg/L	1	1	3	*	*	<1.0				
Toluene	µg/L	1	1	3	*	*	<2				
Total dissolved solids (TDS)	mg/L	1	1	3	*	*	260	260	260	260	
Total petroleum hydrocarbons	µg/L	1	1	3	*	*	<100				
Xylene	µg/L	1	1	3	*	*	<2				

* Indicates that the monitoring location was dry

Monitoring Location 6		Units	No. of samples required by licence	No. of samples collected and analysed	Date Data was Obtained			Units of Measure			
Ground Water 3 Bore Hole 103 GPS Coordinates -36.439275 148.622198					22/09/2015	21/12/2015	24/03/2016	Lowest	Mean	Highest	
EPA Analysis	Adsorbable organic halogens	µg/L	4	3	*	*	<20				
	Alkalinity (as calcium carbonate)	mg/L	4	3	*	*	116	116	116	116	
	Ammonia	mg/L	4	3	*	*	<0.1				
	Calcium	mg/L	4	3	*	*	27.7	27.7	27.7	27.7	
	Chloride	mg/L	4	3	*	*	5.9	5.9	5.9	5.9	
	Fluride	mg/L	4	3	*	*	0.2	0.2	0.2	0.2	
	Iron	mg/L	4	3	*	*	1.59	1.59	1.59	1.59	
	Magnesium	mg/L	4	3	*	*	8.29	8.29	8.29	8.29	
	Manganese	mg/L	4	3	*	*	0.037	0.037	0.037	0.037	
	Nitrate	mg/L	4	3	*	*	1.95	1.95	1.95	1.95	
	pH	pH	4	4	3	*	*	7.34	7.34	7.34	7.34
	Potassium	mg/L	4	3	*	*	2.5	2.5	2.5	2.5	
	Sodium	mg/L	4	3	*	*	16.2	16.2	16.2	16.2	
	Standing Water Level	m	4	4	2	*	*				
	Sulfate	mg/L	4	3	3	*	*	7.2	7.2	7.2	7.2
	Total organic carbon	mg/L	4	3	3	*	*	2	2	2	2
	Total phenolics	mg/L	4	3	3	*	*	<0.05			
	Aluminium (total)	mg/L	1	1	2	*	*				
	Arsenic	mg/L	1	1	2	*	*				
	Barium	mg/L	1	1	2	*	*				
	Benzene	µg/L	1	1	3	*	*	<1.0			
	Cadmium	mg/L	1	1	2	*	*				
	Chromium (hexavalent)	mg/L	1	1	2	*	*				
	Chromium (total)	mg/L	1	1	3	*	*	0.005	0.005	0.005	0.005
	Cobalt	µg/L	1	1	3	*	*	1	1	1	1
	Copper	µg/L	1	1	3	*	*	7	7	7	7
	Ethyl benzene	µg/L	1	1	3	*	*	<2			
	Lead	µg/L	1	1	3	*	*	1	1	1	1
	Mercury	µg/L	1	1	3	*	*	0.3	0.3	0.3	0.3
	Nitrite	mg/L	1	1	3	*	*	<0.01			
	Nitrogen (ammonia)	mg/L	1	1	2	*	*				
	Organochlorine pesticides (OC)	µg/L	1	1	3	*	*	<2.0			
(OP)	µg/L	1	1	3	*	*	<2.0				
Polycyclic aromatic hydrocarbons	µg/L	1	1	3	*	*	<1.0				
Toluene	µg/L	1	1	3	*	*	<2.0				
Total dissolved solids (TDS)	mg/L	1	1	3	*	*	172	172	172	172	
Total petroleum hydrocarbons	µg/L	1	1	3	*	*	<100				
Xylene	µg/L	1	1	3	*	*	<2				

* Indicates that the monitoring location was dry

Monitoring Location 7		Units	No. of samples required by licence	No. of samples collected and analysed	Date Data was Obtained			Units of Measure		
Ground Water 4 Bore Hole 5 GPS Coordinates -36.439049 148.621447					22/09/2015	21/12/2015	24/03/2016	Lowest	Mean	Highest
EPA Analysis	Adsorbable organic halogens	µg/L	4	3	*	*	*			
	Alkalinity (as calcium carbonate)	mg/L	4	3	*	*	*			
	Ammonia	mg/L	4	3	*	*	*			
	Calcium	mg/L	4	3	*	*	*			
	Chloride	mg/L	4	3	*	*	*			
	Fluride	mg/L	4	3	*	*	*			
	Iron	mg/L	4	3	*	*	*			
	Magnesium	mg/L	4	3	*	*	*			
	Manganese	mg/L	4	3	*	*	*			
	Nitrate	mg/L	4	3	*	*	*			
	pH	pH	4	3	*	*	*			
	Potassium	mg/L	4	3	*	*	*			
	Sodium	mg/L	4	3	*	*	*			
	Standing Water Level	m	4	3	*	*	*			
	Sulfate	mg/L	4	3	*	*	*			
	Total organic carbon	mg/L	4	3	*	*	*			
	Total phenolics	mg/L	4	3	*	*	*			
	Aluminium (total)	mg/L	1	3	*	*	*			
	Arsenic	mg/L	1	3	*	*	*			
	Barium	mg/L	1	3	*	*	*			
	Benzene	µg/L	1	3	*	*	*			
	Cadmium	mg/L	1	3	*	*	*			
	Chromium (hexavalent)	mg/L	1	3	*	*	*			
	Chromium (total)	mg/L	1	3	*	*	*			
	Cobalt	µg/L	1	3	*	*	*			
	Copper	µg/L	1	3	*	*	*			
	Ethyl benzene	µg/L	1	3	*	*	*			
	Lead	µg/L	1	3	*	*	*			
	Mercury	µg/L	1	3	*	*	*			
	Nitrite	mg/L	1	3	*	*	*			
	Nitrogen (ammonia)	mg/L	1	3	*	*	*			
	Organochlorine pesticides (OC)	µg/L	1	3	*	*	*			
	(OP)	µg/L	1	3	*	*	*			
Polycyclic aromatic hydrocarbons	µg/L	1	3	*	*	*				
Toluene	µg/L	1	3	*	*	*				
Total dissolved solids (TDS)	mg/L	1	3	*	*	*				
Total petroleum hydrocarbons	µg/L	1	3	*	*	*				
Xylene	µg/L	1	3	*	*	*				

* Indicates that the monitoring location was dry

Monitoring Location 8		Units	No. of samples required by licence	No. of samples collected and analysed	Date Data was Obtained			Units of Measure		
Leachate Dam Secondary GPS Coordinates -36.438490 148.621962					Lowest	Mean	Highest			
EPA Analysis	Alkalinity (as calcium carbonate)	mg/L	1	0						
	Ammonia	mg/L	1	0						
	Calcium	mg/L	1	0						
	Chloride	mg/L	1	0						
	Fluoride	mg/L	1	0						
	Iron	mg/L	1	0						
	Magnesium	mg/L	1	0						
	Manganese	mg/L	1	0						
	Nitrate	mg/L	1	0						
	pH	pH	1	0						
	Potassium	mg/L	1	0						
	Sodium	mg/L	1	0						
	Sulfate	mg/L	1	0						
	Total organic carbon	mg/L	1	0						
	Total Phenolics	mg/L	1	0						
	Zinc	mg/L	1	0						
	Aluminium (total)	mg/L	1	0						
	Arsenic	µg/L	1	0						
	Barium	µg/L	1	0						
	Benzene	µg/L	1	0						
	Cadmium	µg/L	1	0						
	Chromium (hexavalent)	mg/L	1	0						
	Chromium (total)	mg/L	1	0						
	Cobalt	µg/L	1	0						
	Copper	µg/L	1	0						
	Ethyl benzene	µg/L	1	0						
	Lead	µg/L	1	0						
	Mercury	µg/L	1	0						
	Nitrite	mg/L	1	0						
	Nitrogen (ammonia)	mg/L	1	0						
	Organochlorine pesticides	µg/L	1	0						
	Organophosphate pesticides	µg/L	1	0						
Polycyclic aromatic hydrocarbons	µg/L	1	0							
Toluene	µg/L	1	0							
Total dissolved solids (TDS)	mg/L	1	0							
Total petroleum hydrocarbons	µg/L	1	0							
Xylene	µg/L	1	0							

* Indicates that the monitoring location was dry