

Pollutant Monitoring Results - Leachate

Environmental Protection Licence Number:

5065

Licensee Name:

Lucas Heights Resource Recovery Park

Facility Address:

New Illawarra Rd Lucas Heights, NSW 2234

A copy of the full licence can be found on the PDEO Public Register <http://www.epa.nsw.gov.au/prpoeoapp/>

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Location Name	Pollutant	Unit of measure	Monitoring Frequency Required by licence	16/10/2025	28/01/2026	30/04/2026	19/6/26;8:45AM	No. of samples required	No. of samples collected and analysed	Pollutant Limit	Exceedance (Y/N)	Min	Max	Average	Comments
LD001 (EPA ID 3)	Total Alkalinity as CaCO ₃	mg/L	Yearly	4590				1	1	N/A	N	4,590	4,590	4,590	
	Aluminium	mg/L	Yearly	0.68				1	1	N/A	N	1	1	1	
	Arsenic	mg/L	Yearly	0.13				1	1	N/A	N	0	0	0	
	Barium	mg/L	Yearly	0.5				1	1	N/A	N	1	1	1	
	Benzene	mg/L	Yearly	<0.001				1	1	N/A	N	0	0	#DIV/0!	
	Benzo(a)pyrene	mg/L	Yearly	<0.0005				1	1	N/A	N	0	0	#DIV/0!	
	Bicarbonate Alkalinity as CaCO ₃	mg/L	Yearly	4590				1	1	N/A	N	4,590	4,590	4,590	
	Biochemical Oxygen Demand	mg/L	Yearly	34				1	1	N/A	N	34	34	34	
	Cadmium	mg/L	Yearly	0.0002				1	1	N/A	N	0	0	0	
	Calcium	mg/L	Yearly	120				1	1	N/A	N	120	120	120	
	Chemical Oxygen Demand	mg/L	Yearly	2550				1	1	N/A	N	2,550	2,550	2,550	
	Chloride	mg/L	Yearly	2380				1	1	N/A	N	2,380	2,380	2,380	
	Hexavalent Chromium	mg/L	Yearly	<1.00				1	1	N/A	N	0	0	#DIV/0!	
	Chromium	mg/L	Yearly	0.298				1	1	N/A	N	0	0	0	
	Cobalt	mg/L	Yearly	0.061				1	1	N/A	N	0	0	0	
	Conductivity	uS/cm	Quarterly	15,400	12,200	18600	18700	4	4	N/A	N	12,200	18,700	16,225	
	Copper	mg/L	Yearly	0.008				1	1	N/A	N	0	0	0	
	Ethylbenzene	mg/L	Yearly	<0.002				1	1	N/A	N	0	0	#DIV/0!	
	Fluoride	mg/L	Yearly	0.8				1	1	N/A	N	1	1	1	
	Lead	mg/L	Yearly	0.014				1	1	N/A	N	0	0	0	
	Magnesium	mg/L	Yearly	54				1	1	N/A	N	54	54	54	
	Manganese	mg/L	Yearly	0.323				1	1	N/A	N	0	0	0	
	Mercury	mg/L	Yearly	<0.0005				1	1	N/A	N	0	0	#DIV/0!	
	Nickel	mg/L	Yearly	0.229				1	1	N/A	N	0	0	0	
	Nitrate as N	mg/L	Yearly	355				1	1	N/A	N	355	355	355	
	Nitrite as N	mg/L	Yearly	136				1	1	N/A	N	136	136	136	
	Nitrogen (ammonia)	mg/L	Yearly	1250				1	1	N/A	N	1,250	1,250	1,250	
	Organochlorine pesticides	mg/L	Yearly	<0.0005				1	1	N/A	N	0	0	#DIV/0!	
	Organophosphate pesticides	mg/L	Yearly	<0.0005				1	0	N/A	N	0	0	#DIV/0!	
	pH	pH	Quarterly	8.24	8.21	8.49	8.63	4	4	N/A	N	8	9	8	
	Total Phosphorus	mg/L	Yearly	15.8				1	1	N/A	N	16	16	16	
	Polycyclic Aromatic hydrocarbons	mg/L	Yearly	<0.0005				1	1	N/A	N	0	0	#DIV/0!	
	Potassium	mg/L	Yearly	861				1	1	N/A	N	861	861	861	
	Sodium	mg/L	Yearly	1590				1	1	N/A	N	1,590	1,590	1,590	
	Sulfate	mg/L	Yearly	<100				1	1	N/A	N	0	0	#DIV/0!	
	Toluene	mg/L	Yearly	<0.002				1	1	N/A	N	0	0	#DIV/0!	
	Total Dissolved Solids	mg/L	Yearly	6960				1	1	N/A	N	6,960	6,960	6,960	
	Total Organic Carbon	mg/L	Yearly	733				1	1	N/A	N	733	733	733	
	Total Petroleum Hydrocarbons	mg/L	Yearly	1.66				1	1	N/A	N	2	2	2	
	Total Phenolics	mg/L	Yearly	<0.20				1	1	N/A	N	0	0	#DIV/0!	

	Total Suspended Solids	mg/L	Yearly	158				1	1	N/A	N	158	158	158	
	Xylene	mg/L	Yearly	<0.002				1	1	N/A	N	0	0	#DIV/0!	
	Zinc	mg/L	Yearly	0.318				1	1	N/A	N	0	0	0	
	Date Monitoring Data Obtained			23/10/2025	5/02/2026	8/05/2026	26/06/2026								
	Date Uploaded			31/10/2025	16/02/2026	19/05/2026	9/07/2026								
				13/10/2025	28/01/2026	30/04/2026	19/6/2026;11AM								
	Total Alkalinity as CaCO3	mg/L	Yearly	4310				1	1	N/A	N	4,310	4,310	4,310	
	Aluminium	mg/L	Yearly	0.26				1	1	N/A	N	0	0	0	
	Arsenic	mg/L	Yearly	0.069				1	1	N/A	N	0	0	0	
	Barium	mg/L	Yearly	0.324				1	1	N/A	N	0	0	0	
LH1DAM (EPA ID 40)	Benzene	mg/L	Yearly	<0.001				1	1	N/A	N	0	0	#DIV/0!	
	Benzo(a)pyrene	mg/L	Yearly	<0.0005				1	1	N/A	N	0	0	#DIV/0!	
	Bicarbonate Alkalinity as CaCO3	mg/L	Yearly	4310				1	1	N/A	N	4,310	4,310	4,310	
	Biochemical Oxygen Demand	mg/L	Yearly	45				1	1	N/A	N	45	45	45	
	Cadmium	mg/L	Yearly	0.0001				1	1	N/A	N	0	0	0	
	Calcium	mg/L	Yearly	79				1	1	N/A	N	79	79	79	
	Chemical Oxygen Demand	mg/L	Yearly	1380				1	1	N/A	N	1,380	1,380	1,380	
	Chloride	mg/L	Yearly	1710				1	1	N/A	N	1,710	1,710	1,710	
	Hexavalent Chromium	mg/L	Yearly	<0.10				1	1	N/A	N	0	0	#DIV/0!	
	Chromium	mg/L	Yearly	0.162				1	1	N/A	N	0	0	0	
	Cobalt	mg/L	Yearly	0.036				1	1	N/A	N	0	0	0	
	Conductivity	uS/cm	Quarterly	11200	9190	12600	11600	4	4	N/A	N	9,190	12,600	11,148	
	Copper	mg/L	Yearly	0.004				1	1	N/A	N	0	0	0	
	Ethylbenzene	mg/L	Yearly	<0.002				1	1	N/A	N	0	0	#DIV/0!	
	Fluoride	mg/L	Yearly	0.5				1	1	N/A	N	1	1	1	
	Lead	mg/L	Yearly	0.005				1	1	N/A	N	0	0	0	
	Magnesium	mg/L	Yearly	42				1	1	N/A	N	42	42	42	
	Manganese	mg/L	Yearly	0.202				1	1	N/A	N	0	0	0	
	Mercury	mg/L	Yearly	<0.0005				1	1	N/A	N	0	0	#DIV/0!	
	Nickel	mg/L	Yearly	0.137				1	1	N/A	N	0	0	0	
	Nitrate as N	mg/L	Yearly	<1.00				1	0	N/A	N	0	0	#DIV/0!	
	Nitrite as N	mg/L	Yearly	15.6				1	1	N/A	N	16	16	16	
	Nitrogen (ammonia)	mg/L	Yearly	669				1	1	N/A	N	669	669	669	
	Organochlorine pesticides	mg/L	Yearly	<0.0008				1	1	N/A	N	0	0	#DIV/0!	
	Organophosphate pesticides	mg/L	Yearly	<0.0024				1	1	N/A	N	0	0	#DIV/0!	
	pH	pH	Quarterly	8.3	8.16	8.34	8.41	4	4	N/A	N	8	8	8	
	Total Phosphorus	mg/L	Yearly	10.4				1	1	N/A	N	10	10	10	
	Polycyclic Aromatic hydrocarbons	mg/L	Yearly	<0.0005				1	1	N/A	N	0	0	#DIV/0!	
	Potassium	mg/L	Yearly	571				1	1	N/A	N	571	571	571	
	Sodium	mg/L	Yearly	1130				1	1	N/A	N	1,130	1,130	1,130	
	Sulfate	mg/L	Yearly	<100				1	1	N/A	N	0	0	#DIV/0!	
	Toluene	mg/L	Yearly	<0.002				1	1	N/A	N	0	0	#DIV/0!	
	Total Dissolved Solids	mg/L	Yearly	5230				1	1	N/A	N	5,230	5,230	5,230	
	Total Organic Carbon	mg/L	Yearly	470				1	1	N/A	N	470	470	470	
	Total Petroleum Hydrocarbons	mg/L	Yearly	1.61				1	1	N/A	N	2	2	2	
	Total Phenolics	mg/L	Yearly	<0.10				1	1	N/A	N	0	0	#DIV/0!	
	Total Suspended Solids	mg/L	Yearly	64				1	1	N/A	N	64	64	64	
	Xylene	mg/L	Yearly	<0.002				1	1	N/A	N	0	0	#DIV/0!	
	Zinc	mg/L	Yearly	0.132				1	1	N/A	N	0	0	0	
	Date Monitoring Data Obtained			20/10/2025	5/02/2026	8/05/2026	26/06/2026								
	Date Uploaded			28/10/2025	16/02/2026	19/05/2026	9/07/2026								

Note:

** - Monitoring date pending

n/a - analysis not done, analysis to be done during the next sampling event.