

**COMPARISON OF CONSTRUCTION & DEMOLITION DEBRIS LEACHATE ANALYSIS AND MUNICIPAL SOLID WASTE LEACHATE ANALYSIS (DRAFT)**

Analytical Constituents & Parameters	Chemical Abstracts Services Number	Analytical Group	Units	Construction & Demolition Debris Leachate Data <i>Leachate Sample Analyses from 8 Facilities<sup>1</sup>, 2004-2006</i>									Municipal Solid Waste Leachate Data <i>Leachate Sample Analyses from 11 Facilities<sup>2</sup>, 2004-2006</i>								
				Analyses	Detections	Statistics for Detected Values				Drinking Water Comparison			Analyses	Detections	Statistics for Detected Values				Drinking Water Comparison		
						Minimum	Median	Average	Maximum	MCL <sup>3</sup>	SMCL <sup>4</sup>	Multiple of MCL or SMCL for Leachate Average			Minimum	Median	Average	Maximum	MCL	SMCL	Multiple of MCL or SMCL for Leachate Average
ammonia	n/a	nutrient	mg/l	9	9	1.84	8.22	12.83	31.80	---	---	---	11	11	106.00	600.00	1,373.73	8,950.00	---	---	---
chloride	n/a	nutrient	mg/l	9	9	76.0	317.0	404.9	1,040.0	---	250	1.620	11	11	460.0	1,100.0	8,896.4	64,000.0	---	250	35.585
sulfate	n/a	nutrient	mg/l	9	8	70.0	853.0	924.1	2,030.0	---	250	3.697	11	8	9.0	85.5	512.5	3,000.0	---	250	2.050
total dissolved solids	n/a	wet chem	mg/l	3	3	1,520.0	3,200.0	4,630.0	9,170.0	---	500	9.260	11	11	1,940.0	5,740.0	19,923.6	140,000.0	---	500	39.847
arsenic	n/a	metal	ug/l	4	4	6.0	33.5	29.2	43.8	10	---	2.918	11	11	28.4	95.3	113.5	312.0	10	---	11.350
barium	n/a	metal	ug/l	7	7	89.0	163.0	174.9	293.0	2,000	---	0.087	11	10	98.0	780.0	791.5	1,700.0	2,000	---	0.396
cadmium	n/a	metal	ug/l	7	2	12.0	14.0	14.0	16.0	5	---	2.800	11	2	0.2	0.3	0.3	0.5	5	---	0.069
chromium	n/a	metal	ug/l	7	1	46.0				100	---	---	11	10	14.0	57.5	245.5	1,620.0	100	---	---
copper	n/a	metal	ug/l	7	2	11.0	18.5	18.5	26.0	1,300	---	0.014	11	2	30.0	220.0	220.0	410.0	1,300	---	0.169
iron	n/a	metal	ug/l	9	9	1,760.0	8,550.0	17,173.3	54,100.0	---	300	57.244	11	11	53.0	8,900.0	21,157.5	95,000.0	---	300	70.525
lead	n/a	metal	ug/l	6	4	2.2	35.1	32.7	58.4	15	---	2.180	11	8	1.0	3.9	7.7	31.2	15	---	0.515
manganese	n/a	metal	ug/l	9	9	178.0	2,460.0	2,225.8	5,640.0	---	50	44.516	11	11	34.0	650.0	1,078.7	4,050.0	---	50	21.575
nickel	n/a	metal	ug/l	7	1	224.0				---	---	---	11	8	15.0	181.5	232.0	619.0	---	---	---
selenium	n/a	metal	ug/l	4	2	5.4	9.3	9.3	13.2	50	---	0.186	11	0	(no detections)				50	---	---
zinc	n/a	metal	ug/l	9	9	14.0	109.0	626.4	3,060.0	---	5,000	0.125	11	5	40.0	74.0	199.8	480.0	---	5,000	0.040
acetone	67-64-1	VOC	ug/l	4	3	6.51	41.00	57.50	125.00	---	---	---	11	8	150.00	1,391.50	4,048.75	17,000.00	---	---	---
benzene	71-43-2	VOC	ug/l	4	3	0.92	0.98	2.01	4.13	5	---	0.402	11	3	7.20	13.00	12.23	16.50	5	---	2.447
chloroethane	75-00-3	VOC	ug/l	4	2	2.47	2.60	2.60	2.73	---	---	---	11	0	(no detections)				---	---	---
dichlorodifluoromethane	75-71-8	VOC	ug/l	4	2	1.13	1.21	1.21	1.28	---	---	---	11	0	(no detections)				---	---	---
1,2-dichloroethane	107-06-2	VOC	ug/l	4	0	(no detections)				5	---	---	11	1	1.50				5	---	---
1,4-dichlorobenzene	106-46-7	VOC	ug/l	4	0	(no detections)				75	---	---	11	2	7.80	12.65	12.65	17.50	75	---	0.169
ethylbenzene	100-41-4	VOC	ug/l	4	0	(no detections)				700	---	---	11	5	20.00	22.80	43.36	101.00	700	---	0.062
methylene chloride	75-09-2	VOC	ug/l	4	1	2.7				5	---	---	11	3	6.00	29.00	22.00	31.00	5	---	4.400
methyl ethyl ketone	78-93-3	VOC	ug/l	4	1	6.7				---	---	---	11	9	630.00	2,400.00	4,403.22	22,000.00	---	---	---
methyl isobutyl ketone	108-10-1	VOC	ug/l	4	0	(no detections)				---	---	---	11	5	16.80	160.00	132.76	240.00	---	---	---
naphthalene	91-20-3	VOC	ug/l	4	3	0.80	0.92	1.00	1.29	---	---	---	11	0	(no detections)				---	---	---
tetrachloroethene	127-18-4	VOC	ug/l	4	0	(no detections)				5	---	---	11	1	1.00				5	---	---
styrene	100-42-5	VOC	ug/l	4	0	(no detections)				100	---	---	11	1	7.50				100	---	---
trichloroethene	79-01-6	VOC	ug/l	4	0	(no detections)				5	---	---	11	0	(no detections)				5	---	---
trichlorofluoromethane	79-69-4	VOC	ug/l	4	1	27.0				---	---	---	11	1	1.30				---	---	---
toluene	108-88-3	VOC	ug/l	4	2	0.65	2.18	2.18	3.70	1,000	---	0.002	11	6	23.00	110.00	131.50	320.00	1,000	---	0.132
vinyl chloride	75-01-4	VOC	ug/l	4	0	(no detections)				2	---	---	11	1	4.80				2	---	---
xylene	1330-20-7	VOC	ug/l	4	0	(no detections)				10,000	---	---	11	5	37.00	55.00	72.54	171.00	10,000	---	0.007

- NOTE:** 1. C&DD facilities include Athens Hocking Demolition, Cuyahoga Regional, Frank Road, Iron Valley, LAS, Mount Eaton, Ohio Demo (BFI Construction and Demolition), and Sidwell.  
2. MSW facilities include Athens-Hocking Reclamation Center, American, Coshocton, Countywide, Erie County, Fairfield Sanitary, Franklin County, Pine Grove, Rumpke Hamilton County, Suburban South, and Wilmington.  
3. Maximum Contaminant Level or OAC Rule 3745-81 Primary Drinking Water Standard (health based).  
4. Secondary Maximum Contaminant Level or OAC Rule 3745-82 Secondary Drinking Water Standard (aesthetically based).  
5. Not available or not applicable.