Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Landfill Drum Concrete		Concrete Sump Sediment		Drainage Ditch Soil
			DC-001 9/14/01	DC-301 9/14/01 Duplicate	SD-001 9/14/01	SD-301 9/14/01 Duplicate	SS-003-01 9/6/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**6,290**	**5,140**	**11,300**	**12,300**	**4,050 J**
Antimony	820 nc	NE	**18.9**	**13**	18.8 U	15.3 U	9.67 U
Arsenic	2.7 ca	6	**21.1 J**	**20.1 J**	**23.7 J**	**23.4 J**	**1.15**
Barium	100,000 max	NE	**101**	**99.1**	**212**	**206**	**49**
Beryllium	2,200 ca	2	0.041 U	0.394 U	0.75 U	**0.293 J**	0.387 U
Cadmium	810 nc	1	**0.81**	**0.99**	**2.12**	**1.85**	**0.617**
Calcium	NE	NE	**84,800**	**68,100**	**25,100 J**	**25,100 J**	**2,230 J**
Chromium	64 ca	27	**44.6**	**35.8**	**101**	**99.4**	**10.4**
Cobalt	100,000 max	NE	**10.6**	**11.4**	**10.5**	**11.5**	**5.36 J**
Copper	76,000 nc	34	**32.6**	**33.5**	**272**	**277**	**26.5**
Iron	100,000 max	36,100	**19,000**	**20,100**	**31,000 J**	**31,100 J**	**10,200**
Lead	750 nc	17	**6.11**	**6.75**	**273 J**	**290 J**	**27.2**
Magnesium	NE	NE	**4,260**	**4,320**	**13,500 J**	**15,700 J**	**1,360 J**
Manganese	32,000 nc	1,500	**360**	**324**	**464 J**	**450**	**109**
Mercury	610 nc	0.04	**0.0247**	0.0201 U	**31.3**	**23.7**	**4.05 J**
Nickel	41,000 nc	21	**8.32**	**10.4**	**96.1**	**95.6**	**15.2**
Potassium	NE	NE	**948**	**658**	**1960**	**2540**	**289 J**
Selenium	10,000 nc	NE	**1.9 J**	**1.59 J**	**2.72 J**	**2.83 J**	9.67 U
Silver	10,000 nc	NE	**0.137**	**0.163**	**12.8**	**12.2**	**0.505**
Sodium	NE	NE	**440**	204 U	375 U	306 UJ	193 U
Strontium	100,000 max	NE	**155**	**140**	**95.4**	**101**	**11.5 J**
Thallium	130 nc	NE	4.1 U	3.94 U	7.5 U	6.13 U	3.87 U
Uranium	410 nc	NE	**0.605**	**0.666**	**0.747**	**0.66**	**0.254**
Vanadium	14,000 nc	NE	**46.5**	**48**	**51.8**	**53.7**	**37.9**
Zinc	100,000 max	96	**184**	**165**	**741**	**723**	**60.6**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Drainage Ditch Soil				
			SS-003-05 9/6/01	SS-004-03 9/6/01	SS-004-09 9/6/01	SS-005-01 9/12/01	SS-006-01 9/6/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**1,330 J**	**1,760**	**1,640**	**12,700**	**3,410**
Antimony	820 nc	NE	10.1 U	**2.04 J**	10.3 U	**2.41 J**	10.2 U
Arsenic	2.7 ca	6	0.304 U	0.267 U	0.308 U	**1.04**	**0.456**
Barium	100,000 max	NE	**13.2**	**12.8**	**13.2**	**66.1**	**46.1**
Beryllium	2,200 ca	2	0.406 U	0.356 U	0.411 U	**0.206 J**	0.409 U
Cadmium	810 nc	1	**0.267**	**0.441**	**0.336**	**1.19**	**0.77**
Calcium	NE	NE	**1,410 J**	**1,490 J**	**1,330 J**	**4,240 J**	**2,780 J**
Chromium	64 ca	27	**2.62**	**5.21**	5.11 U	**13.7**	**6.41**
Cobalt	100,000 max	NE	**1.66 J**	**2.99 J**	**3.07 J**	**8.84**	**3.71 J**
Copper	76,000 nc	34	**9.06**	**10.1**	**9.97**	**66.9 J**	**13.6**
Iron	100,000 max	36,100	**3,580**	**6,670 J**	**6,780 J**	**16,000**	**8,290 J**
Lead	750 nc	17	**0.489**	**1.02**	**0.911**	**4.31**	**8.7**
Magnesium	NE	NE	**249 J**	**439 J**	**493 J**	**2,410**	**682 J**
Manganese	32,000 nc	1,500	**40.4**	**52.3**	**54**	**162**	**200**
Mercury	610 nc	0.04	**0.138 J**	**0.0673 J**	**0.0206 J**	**0.016 J**	**1.94 J**
Nickel	41,000 nc	21	**2.68**	**3.8**	**3.62**	**12.6**	**7.05**
Potassium	NE	NE	**70.8 J**	**102 J**	**106 J**	**1080**	**176 J**
Selenium	10,000 nc	NE	10.1 U	8.9 U	10.3 U	**1.58 J**	10.2 U
Silver	10,000 nc	NE	**0.0473**	**0.107**	**0.0619**	**0.23**	**0.446**
Sodium	NE	NE	**179 J**	**348**	**345**	**1370 J**	**272**
Strontium	100,000 max	NE	**6.64 J**	**11.1 J**	**10.6 J**	**65.7**	**18.1 J**
Thallium	130 nc	NE	4.06 U	3.56 U	4.11 U	3.95 U	4.09 U
Uranium	410 nc	NE	**0.0434**	**0.0525**	**0.0653**	**0.693**	**0.117**
Vanadium	14,000 nc	NE	**12.2**	**24.4**	**23.6**	**55.6**	**24.2**
Zinc	100,000 max	96	**5.46**	**16.4**	**14.5**	**35.7**	**28.7**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Drainage Ditch Soil				
			SS-006-05 9/6/01	SS-007-01 9/6/01	SS-007-05 9/6/01	SS-008-01 9/6/01	SS-008-05 9/6/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**2,570**	**2,390**	**2,350**	**2,090**	**2,470**
Antimony	820 nc	NE	8.89 U	9.15 U	9.14 U	9.17 U	**3.41 J**
Arsenic	2.7 ca	6	0.267 U	0.275 U	0.274 U	0.275 U	0.309 U
Barium	100,000 max	NE	**20.7**	**21.5**	**15.6**	**10.4**	**19.3**
Beryllium	2,200 ca	2	0.355 U	0.366 U	0.366 U	0.367 U	0.412 U
Cadmium	810 nc	1	**0.458**	**0.693**	**0.436**	**0.379**	**0.481**
Calcium	NE	NE	**1,720 J**	**1,530 J**	**1,580 J**	**1,300 J**	**1,440 J**
Chromium	64 ca	27	**5.88**	**6.07**	**5.06**	4.09 U	**5.74**
Cobalt	100,000 max	NE	**3.57 J**	**3.37 J**	**2.96 J**	**2.51 J**	**3.45 J**
Copper	76,000 nc	34	**12.3**	**10.7**	**10.7**	**10.2**	**13.7**
Iron	100,000 max	36,100	**7,910 J**	**7,370 J**	**6,720 J**	**5,570 J**	**7,070 J**
Lead	750 nc	17	**0.582**	**1.67**	**0.46**	**2.12**	**0.539**
Magnesium	NE	NE	**511 J**	**323 J**	**467 J**	**301 J**	**419 J**
Manganese	32,000 nc	1,500	**61.6**	**103**	**54.8**	**47.1**	**66.5**
Mercury	610 nc	0.04	**0.0407 J**	**0.421 J**	**0.105 J**	**0.0889 J**	**0.0687 J**
Nickel	41,000 nc	21	**3.87**	**4.31**	**3.7**	**3.82**	**3.79**
Potassium	NE	NE	**151 J**	**106 J**	**116 J**	367 U	**127 J**
Selenium	10,000 nc	NE	8.89 U	9.15 U	9.14 U	9.17 U	10.3 U
Silver	10,000 nc	NE	**0.0885**	**0.404**	**0.162**	**0.218**	**0.0784**
Sodium	NE	NE	**430**	**210**	**300**	**140 J**	**376**
Strontium	100,000 max	NE	**15.1 J**	**11.8 J**	**12.7 J**	**10.9 J**	**12.1 J**
Thallium	130 nc	NE	3.55 U	3.66 U	3.66 U	3.67 U	4.12 U
Uranium	410 nc	NE	**0.0667**	**0.0566**	**0.0605**	**0.0666**	**0.122**
Vanadium	14,000 nc	NE	**28.7**	**26.3**	**23.3**	**20.1**	**26.5**
Zinc	100,000 max	96	**13.3**	**66.1**	**37.6**	**25.7**	**13.4**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Dry Well Soil				
			SS-009-08 9/5/01	SS-009-11 9/5/01	SS-010-08 9/5/01	SS-310-08 9/5/01 Duplicate	SS-010-12 9/5/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**1,060 J**	**889 J**	**1,820 J**	**1,840 J**	**1,070 J**
Antimony	820 nc	NE	**6.4 J**	**2.38 J**	**1.15 J**	**1.22 J**	9.49 U
Arsenic	2.7 ca	6	0.286 U	0.283 U	0.304 U	0.303 U	0.285 U
Barium	100,000 max	NE	**4.23**	**4.44**	**9.3**	**10.3**	**4.61**
Beryllium	2,200 ca	2	0.381 U	0.377 U	0.406 U	0.403 U	0.379 U
Cadmium	810 nc	1	**0.189**	**0.187**	**0.355**	**0.366**	**0.265**
Calcium	NE	NE	**1,130**	**1,380**	**1,290**	**1,330**	**1,240**
Chromium	64 ca	27	3.3 U	3.38 U	3.02 U	2.98 U	3.09 U
Cobalt	100,000 max	NE	**1.55**	**1.53**	**1.76**	**1.88**	**1.56**
Copper	76,000 nc	34	**13.7**	**8.2**	**27.5**	**35.8**	**9.95**
Iron	100,000 max	36,100	**3,170**	**3,610**	**4,020**	**3,930**	**3,620**
Lead	750 nc	17	**0.315**	**0.227**	**0.404**	**0.43**	**0.29**
Magnesium	NE	NE	**175**	**171**	**271**	**349**	**222**
Manganese	32,000 nc	1,500	**22.3**	**26**	**33**	**32.3**	**24.6**
Mercury	610 nc	0.04	**0.0134 J**	**0.0144 J**	0.0214 UJ	**0.0171 J**	0.021 UJ
Nickel	41,000 nc	21	**1.89 J**	**1.82 J**	**2.26**	**2.45**	**1.78 J**
Potassium	NE	NE	**63.3 J**	**68.5 J**	**95.9 J**	**101 J**	**74.9 J**
Selenium	10,000 nc	NE	9.52 U	9.43 U	10.1 U	10.1 U	9.49 U
Silver	10,000 nc	NE	**0.0311**	**0.0292**	**0.0495**	**0.0543**	**0.0556**
Sodium	NE	NE	190 U	**180 J**	**298**	**242**	**203**
Strontium	100,000 max	NE	**5.39**	**6.68**	**12.5**	**13.7**	**7.67**
Thallium	130 nc	NE	3.81 U	3.77 U	4.06 U	4.03 U	3.79 U
Uranium	410 nc	NE	**0.0497**	**0.0469**	**0.122**	**0.103**	**0.0535**
Vanadium	14,000 nc	NE	**13.3**	**14.5**	**16**	**13.6**	**13.9**
Zinc	100,000 max	96	**6.06**	**6.56**	**11.8**	**11.4**	**7.59**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Dry Well Soil				
			SS-011-08 9/5/01	SS-011-11 9/5/01	SS-012-08 9/5/01	SS-012-11 9/5/01	SS-312-11 9/5/01 Duplicate
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**1,610 J**	**903 J**	**959 J**	**872 J**	**1,120 J**
Antimony	820 nc	NE	9.84 U	9.19 U	9.68 U	9.59 U	**4.37 J**
Arsenic	2.7 ca	6	0.295 U	0.276 U	0.29 U	0.288 U	0.312 U
Barium	100,000 max	NE	**7.69**	**4.27**	**3.57**	**4.85**	**5.71**
Beryllium	2,200 ca	2	0.393 U	0.368 U	0.387 U	0.384 U	0.416 U
Cadmium	810 nc	1	**0.387**	**0.189**	**0.205**	**0.209**	**0.207**
Calcium	NE	NE	**1,330**	**1,150**	**1,270**	**1,020**	**1,200**
Chromium	64 ca	27	3.15 U	2.62 U	1.94 U	1.92 UJ	2.39 U
Cobalt	100,000 max	NE	**1.74**	**1.18**	**0.751 J**	**0.968**	**1.32**
Copper	76,000 nc	34	**10.2**	**8.09**	**7.89**	**6.57**	**8.92**
Iron	100,000 max	36,100	**3,940**	**3,150**	**2,560**	**2,210**	**3,380**
Lead	750 nc	17	**0.363**	**0.251**	**0.246**	**0.336**	**0.276**
Magnesium	NE	NE	**204**	**166**	**177**	**130**	**253**
Manganese	32,000 nc	1,500	**30.5**	**26.2**	**18.2**	**18.2**	**25.4**
Mercury	610 nc	0.04	**0.0143 J**	**0.0153 J**	0.0132 UJ	**0.0135 J**	0.0179 UJ
Nickel	41,000 nc	21	**1.8 J**	**1.48 J**	**1.09 J**	**1.13 J**	**1.52 J**
Potassium	NE	NE	**89.3 J**	**57.4 J**	**64.4 J**	**63.3 J**	**78 J**
Selenium	10,000 nc	NE	9.84 U	9.19 U	9.68 U	9.59 U	10.4 U
Silver	10,000 nc	NE	**0.0498**	**0.0255**	**0.0277**	**0.103**	**0.0375**
Sodium	NE	NE	**206**	**135 J**	**186 J**	**221**	208 U
Strontium	100,000 max	NE	**12**	**6.47**	**7.3**	**6.71**	**8.49**
Thallium	130 nc	NE	3.93 U	3.68 U	3.87 U	3.84 U	4.16 U
Uranium	410 nc	NE	**0.0807**	**0.109**	**0.0513**	**0.0366**	**0.0483**
Vanadium	14,000 nc	NE	**15.3**	**12.6**	**8.72**	**8.42**	**11.9**
Zinc	100,000 max	96	**6.23**	**5.29**	**3.69**	**4.39**	**5.27**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Dry Well Soil				Cleanout Pipe Soil
			SS-013-10 9/5/01	SS-013-12 9/5/01	SS-030-10 9/6/01	SS-031-10 9/6/01	SS-014-04 9/5/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**796 J**	**1,450 J**	**1,250 J**	**909 J**	**1,810 J**
Antimony	820 nc	NE	**0.94 J**	10.6 U	**2.16 J**	**1.02 J**	9.02 U
Arsenic	2.7 ca	6	0.28 U	0.319 U	0.31 U	0.311 U	0.271 U
Barium	100,000 max	NE	**4.9**	**19.6**	**6.83**	**25.6**	**7.26**
Beryllium	2,200 ca	2	0.374 U	0.425 U	0.413 U	0.414 U	0.361 U
Cadmium	810 nc	1	**0.196**	**0.232**	**0.261**	**0.242**	**0.213**
Calcium	NE	NE	**1,240**	**1,340**	**1,280 J**	**1,160 J**	**1,140**
Chromium	64 ca	27	2.03 U	**9.98**	**2.98**	2.07 UJ	3.21 U
Cobalt	100,000 max	NE	**1.23**	**2.82**	**1.62 J**	**1.21 J**	**1.59**
Copper	76,000 nc	34	**7.47**	**8.94**	**8.67**	**7.86**	**87.3**
Iron	100,000 max	36,100	**2,710**	**5,950**	**3,630**	**2,690**	**3,210**
Lead	750 nc	17	**0.253**	**2.07**	**0.347**	**1.63**	**0.95**
Magnesium	NE	NE	**163**	**731**	**221 J**	**122 J**	**251**
Manganese	32,000 nc	1,500	**26.9**	**55.5**	**28.2**	**20.1 J**	**38.7**
Mercury	610 nc	0.04	0.0196 UJ	0.0215 UJ	**0.0161 J**	**0.0183 J**	**0.0172 J**
Nickel	41,000 nc	21	**1.4 J**	**4.43**	**1.73 J**	**1.22 J**	**2.17**
Potassium	NE	NE	**58.7 J**	**161 J**	**78.6 J**	**56.9 J**	**71.1 J**
Selenium	10,000 nc	NE	9.34 U	10.6 U	10.3 U	10.4 U	9.02 U
Silver	10,000 nc	NE	**0.034**	**0.0489**	**0.0434**	**0.0369**	**0.0359**
Sodium	NE	NE	**147 J**	213 U	**202 J**	**177 J**	180 U
Strontium	100,000 max	NE	**5.58**	**9.6**	**7.2 J**	**5.31 J**	**5.72**
Thallium	130 nc	NE	3.74 U	4.25 U	4.13 U	4.14 U	3.61 U
Uranium	410 nc	NE	**0.0469**	**0.0812**	**0.0698**	**0.0756**	**0.0884**
Vanadium	14,000 nc	NE	**10.2**	**18.5**	**14.3**	**10.5**	**11.7**
Zinc	100,000 max	96	**4.32**	**17.3**	**6.49**	**4.62**	**14.2**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Cleanout Pipe Soil				
			SS-015-05 9/5/01	SS-016-05 9/5/01	SS-022-01 9/14/01	SS-023-01 9/14/01	SS-323-01 9/14/01 Duplicate
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**1,850 J**	**2,470 J**	**8,300**	**9,690**	**8,640**
Antimony	820 nc	NE	10.4 U	9.16 U	11.2 U	9.35 U	9.44 U
Arsenic	2.7 ca	6	0.311 U	0.275 U	**1.46 J**	**2.3 J**	**1.9 J**
Barium	100,000 max	NE	**10.6**	**88**	**85.8**	**135**	**138**
Beryllium	2,200 ca	2	0.415 U	0.366 U	0.447 U	**0.154 J**	**0.194 J**
Cadmium	810 nc	1	**0.459**	**0.25**	**1.08**	**1.02**	**0.898**
Calcium	NE	NE	**1,540**	**1,630**	**8,360 J**	**8,280 J**	**8,150 J**
Chromium	64 ca	27	2.78 U	4.69 U	**13**	**16.9**	**18.7**
Cobalt	100,000 max	NE	**1.58**	**1.34**	**11.5**	**9.85**	**10.9**
Copper	76,000 nc	34	**10.6**	**10.8**	**19.4**	**30.5**	**29.7**
Iron	100,000 max	36,100	**3,130**	**2,640**	**24,700**	**21,600**	**21,800**
Lead	750 nc	17	**1.22**	**1.07**	**30.2**	**45.3**	**43.6**
Magnesium	NE	NE	**257**	**323**	**2,910 J**	**3,330 J**	**3,460 J**
Manganese	32,000 nc	1,500	**40.9**	**31.7**	**472**	**344**	**406**
Mercury	610 nc	0.04	**0.0828 J**	0.0158 UJ	**0.0263**	**0.712**	**0.505**
Nickel	41,000 nc	21	**2.6**	**1.95**	**12.6**	**14.7**	**16.2**
Potassium	NE	NE	**82.8 J**	**279 J**	**805**	**793**	**673**
Selenium	10,000 nc	NE	10.4 U	9.16 U	**2.2 J**	**1.56 J**	**1.52 J**
Silver	10,000 nc	NE	**0.0457**	**0.0399**	**0.277**	**0.719**	**0.662**
Sodium	NE	NE	**203 J**	**235**	223 UJ	187 UJ	189 U
Strontium	100,000 max	NE	**7.61**	**10.2**	**64.8**	**61.9**	**58**
Thallium	130 nc	NE	4.15 U	3.66 U	4.47 U	3.74 U	3.77 U
Uranium	410 nc	NE	**0.0606**	**0.0802**	**0.564**	**0.479**	**0.486**
Vanadium	14,000 nc	NE	**11.4**	**9.17**	**65**	**55.2**	**55.3**
Zinc	100,000 max	96	**16.2**	**7.95**	**98**	**130**	**120**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Cleanout Pipe Soil		Landfill Trench TR-1 Soil		
			SS-024-01 9/14/01	SS-025-01 9/14/01	SS-026-04 9/10/01	SS-026-05 9/10/01	SS-026-07 9/10/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	**0.22**	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**10,500**	**9,230**	**6,770**	**9,640**	**2,620**
Antimony	820 nc	NE	10.7 U	**3.81 J**	**1.05 J**	**1.7 J**	**1.3 J**
Arsenic	2.7 ca	6	**2.22 J**	**4.51 J**	**2.5**	**3.88**	0.271 U
Barium	100,000 max	NE	**144**	**2580**	**72.2**	**90.7**	**8.19**
Beryllium	2,200 ca	2	**0.186 J**	**0.158 J**	**0.153 J**	**0.172 J**	0.361 U
Cadmium	810 nc	1	**1.02**	**1.29**	**0.746**	**1.19**	**0.363**
Calcium	NE	NE	**6,530 J**	**17,100 J**	**30,800 J**	**9,590 J**	**1,590 J**
Chromium	64 ca	27	**19.6**	**35.9**	**22**	**38.3**	5.32 U
Cobalt	100,000 max	NE	**14**	**12.3**	**8.98**	**17.2**	**3.09**
Copper	76,000 nc	34	**29.5**	**46.2**	**24.3 J**	**34.5 J**	**13.1 J**
Iron	100,000 max	36,100	**24,400**	**28,500**	**19,600**	**28,000**	**6,810**
Lead	750 nc	17	**50.5**	**266**	**24**	**33.2**	**0.678**
Magnesium	NE	NE	**3,510 J**	**5,820 J**	**7,540**	**6,930**	**362**
Manganese	32,000 nc	1,500	**464**	**452**	**367**	**488**	**49.3**
Mercury	610 nc	0.04	**0.899**	**0.559**	**0.0263 J**	**0.0641 J**	0.0197 UJ
Nickel	41,000 nc	21	**17.2**	**40.9**	**14.7**	**54.2**	**3.67**
Potassium	NE	NE	**904**	**999**	**1070**	**1010**	**115 J**
Selenium	10,000 nc	NE	10.7 U	**2.02 J**	**1.79 J**	**2.33 J**	9.03 U
Silver	10,000 nc	NE	**0.723**	**0.631**	**0.15**	**0.408**	**0.302**
Sodium	NE	NE	214 UJ	261 U	**377 J**	**338 J**	**370 J**
Strontium	100,000 max	NE	**62.8**	**83.7**	**82.6**	**77.5**	**19.3**
Thallium	130 nc	NE	4.29 U	3.81 U	3.67 U	4.01 U	3.61 U
Uranium	410 nc	NE	**0.552**	**0.507**	**0.377**	**0.485**	**0.123**
Vanadium	14,000 nc	NE	**64.9**	**72.8**	**36**	**69.3**	**26.4**
Zinc	100,000 max	96	**97.8**	**433**	**115**	**126**	**10.8**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Landfill Trench TR-2 Soil			Landfill Trench TR-3 Soil	
			SS-027-04 9/11/01	SS-327-04 9/11/01 Duplicate	SS-027-13 9/11/01	SS-028-05 9/11/01	SS-028-11 9/11/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**8,080**	**7,370**	**2,880**	**9,850**	**8,950**
Antimony	820 nc	NE	**1.08 J**	9.59 U	9.58 UJ	10.3 U	**7.03 J**
Arsenic	2.7 ca	6	**3.14**	**3.0**	**4.11**	**8.02**	**2.32**
Barium	100,000 max	NE	**48.5**	**50.9**	**13.8**	**142**	**69.7**
Beryllium	2,200 ca	2	0.377 U	0.383 U	0.383 U	**0.317 J**	0.422 U
Cadmium	810 nc	1	**0.712**	**0.763**	**0.412**	**1.41**	**0.948**
Calcium	NE	NE	**6,080 J**	**4,310 J**	**1,940 J**	**23,400 J**	**11,300 J**
Chromium	64 ca	27	**11.3**	**13.6**	5.02 U	**17.5**	**12.1**
Cobalt	100,000 max	NE	**7.66**	**8.51**	**3.34**	**9.84 J**	**9.51**
Copper	76,000 nc	34	**17.1 J**	**18.9 J**	**18.5 J**	**97.7**	**32.6 J**
Iron	100,000 max	36,100	**17,800**	**19,000**	**9,190**	**25,400**	**21,400**
Lead	750 nc	17	**11.6**	**15.6**	**1.52**	**51.8**	**14.1**
Magnesium	NE	NE	**3,030**	**2,920**	**577**	**4,050**	**4,000**
Manganese	32,000 nc	1,500	**377**	**335**	**65.4**	**617**	**420**
Mercury	610 nc	0.04	**3.33 J**	**4.6 J**	0.0186 UJ	**1.48 J**	**0.2 J**
Nickel	41,000 nc	21	**8.96**	**10.4**	**3.67**	**19.6**	**13.6**
Potassium	NE	NE	**506**	**534**	**160 J**	**776**	**729**
Selenium	10,000 nc	NE	**1.86 J**	**1.39 J**	9.58 U	**2.68 J**	**1.87 J**
Silver	10,000 nc	NE	**0.771**	**1.53**	**0.15**	**0.43**	**0.383**
Sodium	NE	NE	**287 J**	**383 J**	**205 J**	206 UJ	**173 J**
Strontium	100,000 max	NE	**51.1**	**49.5**	**26.6**	**78.9**	**89.5**
Thallium	130 nc	NE	3.77 U	3.83 U	3.83 U	4.13 U	4.22 U
Uranium	410 nc	NE	**0.307**	**0.358**	**0.107**	**0.517**	**0.394**
Vanadium	14,000 nc	NE	**48.2**	**56.2**	**27.9**	**49.9**	**49.9**
Zinc	100,000 max	96	**70.2**	**76.9**	**20.1**	**92.6**	**69.6**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Landfill Trench TR-4 Soil		Landfill Trench TR-5 Soil		Background Soil
			SS-029-05 9/12/01	SS-029-10 9/12/01	SS-033-01 9/12/01	SS-033-04 9/12/01	SS-001-01 9/5/01
Conventionals (mg/kg)							
Cyanide	35	NA	0.2 U	0.2 U	**0.30**	0.2 U	0.2 U
Metals (mg/kg)							
Aluminum	100,000 max	52,300	**7,760**	**3,350**	**4,310**	**5,690**	**2,000 J**
Antimony	820 nc	NE	9.53 U	9.38 U	**1.63 J**	**1.93 J**	9.15 U
Arsenic	2.7 ca	6	**3.57 J**	0.281 UJ	**1.1 J**	**0.983 J**	0.274 U
Barium	100,000 max	NE	**102**	**7.89**	**91**	**57.5**	**9.11**
Beryllium	2,200 ca	2	**0.18 J**	0.375 U	0.406 U	0.41 U	0.366 U
Cadmium	810 nc	1	**0.949**	**0.491**	**0.51**	**0.412**	**0.3**
Calcium	NE	NE	**16,900 J**	**1,860 J**	**4,040 J**	**10,000**	**1,110 J**
Chromium	64 ca	27	**16.7**	6.23 U	**9.02**	**9.34**	2.36 U
Cobalt	100,000 max	NE	**10.7**	**4.04**	**29.1**	**5.4**	**1.57 J**
Copper	76,000 nc	34	**24.4**	**14.1**	**36.3**	**14.1**	**11.1**
Iron	100,000 max	36,100	**23,900**	**8,760**	**15,100**	**11,100**	**3,260**
Lead	750 nc	17	**20**	**0.873**	**107**	**11.4**	**0.73**
Magnesium	NE	NE	**4,780 J**	**504 J**	**1,640 J**	**1,640**	**227 J**
Manganese	32,000 nc	1,500	**452**	**85.9**	**203**	**221**	**32.1**
Mercury	610 nc	0.04	**0.0538**	0.0162 U	**0.0394**	**0.0341**	**0.034 J**
Nickel	41,000 nc	21	**31.4**	**4.28**	**6.48**	**13.4**	**1.89**
Potassium	NE	NE	**1170**	**142 J**	**326 J**	**353 J**	**58.1 J**
Selenium	10,000 nc	NE	**1.82 J**	9.38 U	10.2 U	10.2 U	9.15 U
Silver	10,000 nc	NE	**0.419**	**0.117**	**0.127**	**0.192**	**0.045**
Sodium	NE	NE	269 U	**454**	203 U	205 U	**357**
Strontium	100,000 max	NE	**75.2**	**26.1**	**37.4**	**36.5**	**5.91 J**
Thallium	130 nc	NE	3.81 U	3.75 U	4.06 U	4.1 U	3.66 U
Uranium	410 nc	NE	**0.754**	**0.141**	**0.203**	**0.333**	**0.0681**
Vanadium	14,000 nc	NE	**45.5**	**30.7**	**33.1**	**29.8**	**12.3**
Zinc	100,000 max	96	**55.8**	**14.1**	**162**	**37.7**	**5.64**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]	Background Soil			
			SS-001-12 9/11/01	SS-002-01 9/7/01	SS-032-01 9/7/01	SS-032-14 9/7/01
Conventionals (mg/kg)						
Cyanide	35	NA	0.2 U	0.2 U	0.2 U	0.2 U
Metals (mg/kg)						
Aluminum	100,000 max	52,300	**1,660**	**2,560**	**3,030**	**1,320**
Antimony	820 nc	NE	**2.6 J**	9.15 U	**1.53 J**	**0.962 J**
Arsenic	2.7 ca	6	0.283 U	0.275 U	0.292 U	0.343 U
Barium	100,000 max	NE	**4.42**	**13.8**	**19.4**	**4.8**
Beryllium	2,200 ca	2	0.377 U	0.366 U	0.39 U	0.458 U
Cadmium	810 nc	1	**0.233**	**0.491**	**0.421**	**0.299**
Calcium	NE	NE	**1,460 J**	**1,380 J**	**1,350 J**	**1,530 J**
Chromium	64 ca	27	4.83 U	**6.26**	4.4 U	5.43 U
Cobalt	100,000 max	NE	**2.43**	**3.82 J**	**3.35 J**	**3.08 J**
Copper	76,000 nc	34	**14.5 J**	**13.8**	**13.4**	**10.3**
Iron	100,000 max	36,100	**5,790**	**10,100 J**	**7,720 J**	**6,260 J**
Lead	750 nc	17	**0.835**	**0.456**	**0.845**	**0.393**
Magnesium	NE	NE	**246**	**336 J**	**492 J**	**222 J**
Manganese	32,000 nc	1,500	**40**	**110**	**68**	**40.6**
Mercury	610 nc	0.04	0.0206 UJ	0.021 UJ	**0.0169 J**	0.0208 UJ
Nickel	41,000 nc	21	**2.63**	**3.83**	**3.77**	**2.94**
Potassium	NE	NE	**113 J**	366 U	**140 J**	**66 J**
Selenium	10,000 nc	NE	9.43 U	9.15 U	9.74 U	11.4 U
Silver	10,000 nc	NE	**0.0858**	**0.0719**	**0.0688**	**0.0556**
Sodium	NE	NE	**236 J**	**205**	**301**	**217 J**
Strontium	100,000 max	NE	**18.7**	**10.9 J**	**12.7 J**	**10.4 J**
Thallium	130 nc	NE	3.77 U	3.66 U	3.9 U	4.58 U
Uranium	410 nc	NE	**0.0955**	**0.0994**	**0.124**	**0.136**
Vanadium	14,000 nc	NE	**23.4**	**38.7**	**26**	**25.7**
Zinc	100,000 max	96	**12.3**	**11.4**	**14.4**	**12.6**

Table B-4
Analytical Results of Metals and Cyanide in Soil, Concrete, and Sediment Samples

Analyte	EPA Region 9 Industrial Soil PRGs[a]	Clark County Background[b]
Conventionals (mg/kg)		
Cyanide	35	NA
Metals (mg/kg)		
Aluminum	100,000 max	52,300
Antimony	820 nc	NE
Arsenic	2.7 ca	6
Barium	100,000 max	NE
Beryllium	2,200 ca	2
Cadmium	810 nc	1
Calcium	NE	NE
Chromium	64 ca	27
Cobalt	100,000 max	NE
Copper	76,000 nc	34
Iron	100,000 max	36,100
Lead	750 nc	17
Magnesium	NE	NE
Manganese	32,000 nc	1,500
Mercury	610 nc	0.04
Nickel	41,000 nc	21
Potassium	NE	NE
Selenium	10,000 nc	NE
Silver	10,000 nc	NE
Sodium	NE	NE
Strontium	100,000 max	NE
Thallium	130 nc	NE
Uranium	410 nc	NE
Vanadium	14,000 nc	NE
Zinc	100,000 max	96

Notes:
Detections are bolded
Concentrations greater than Clark County Background values are outlined; concentrations exceeding PRG are shaded.
a- EPA Region 9 PRGs (industrial soil), November 2000.
b- Natural Background Soil Metals Concentratipns in Washington State (Clark County), Washington Sate Department of Ecology, Publication #94-115, October 1994.
ca - carcinogen
D - value is derived from a dilution
EPA - U.S. Environmental Protection Agency
max - maximum soil contamination level
µg/Kg - microgram per kilogram
mg/Kg - milligram per kilogram
NA - not applicable
nc - noncarcinogen
NE - not established
J - value estimated
OAR - Oregon Administrative Rules
ODEQ - Oregon Department of Environmental Quality
PRG - preliminary remediation goal
R- result rejected
sat - saturated soil
U - not detected above respective reporting limit