

US EPA ARCHIVE DOCUMENT

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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Date: 03/01/00

EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT	(Units in mg/kg)	SITE	AD-01	AD-01	AD-01	AD-02	AD-02	AD-02
		SAMPLE ID	AD-01-A	AD-01-B	AD-01-C	AD-02-A	AD-02-B	AD-02-C
		DATE	07/22/99	07/22/99	07/22/99	07/21/99	07/21/99	07/21/99
		DEPTH (ft)	0.50	9.50	11.20	0.50	8.00	11.50
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum			---	---	---	---	---	---
Iron			---	---	---	---	---	---
Lead			9.2 J	5.2 J	7.3 J	9.3 J	7.3 J	19.0
Magnesium			---	---	---	---	---	---
Manganese			---	---	---	---	---	---
Molybdenum			---	---	---	---	---	---
Nickel			---	---	---	---	---	---
Potassium			---	---	---	---	---	---
Silver			<1.0 UJ	<1.1 UJ	<1.1 UJ	<1.0 UJ	<1.1 UJ	<1.2 UJ
Sodium			---	---	---	---	---	---
Thallium			---	---	---	---	---	---
Antimony			---	---	---	---	---	---
Arsenic			<31.3 U	<34.0 U	<32.6 U	<30.8 U	<34.5 U	3.8 J
Barium			26.3	23.3	12.8 J	21.4	28.2	32.4
Beryllium			---	---	---	---	---	---
Cadmium			<0.52 U	<0.57 U	<0.54 U	<0.51 U	<0.57 U	<0.59 U
Chromium			14.3 J	7.0 J	5.2 J	10.3 J	9.0 J	13.7 J
Cobalt			---	---	---	---	---	---
Copper			---	---	---	---	---	---
Vanadium			---	---	---	---	---	---
Zinc			---	---	---	---	---	---
Calcium			---	---	---	---	---	---
Selenium			<26.1 U	<28.4 U	<27.2 U	<25.7 U	<28.7 U	<29.3 U
Mercury			---	0.012 J	0.0061 J	0.020 J	0.017 J	0.014 J
Cyanide (Total)			---	---	---	---	---	---

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Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT (Units in mg/kg)	SITE	AD-03	AD-03	AD-04	AD-04	AD-04	AD-04
	SAMPLE ID	AD-03-A	AD-03-C	AD-04-A	AD01-FD	AD-04-B	AD-04-C
	DATE	07/20/99	07/20/99	07/19/99	07/19/99	07/19/99	07/19/99
	DEPTH (ft)	0.50	6.50	0.50	0.50	2.50	9.50
	RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Aluminum		---	---	---	---	---	---
Iron		---	---	---	---	---	---
Lead		24.1	5.7 J	629	528	13.3	12.4
Magnesium		---	---	---	---	---	---
Manganese		---	---	---	---	---	---
Molybdenum		---	---	---	---	---	---
Nickel		---	---	---	---	---	---
Potassium		---	---	---	---	---	---
Silver		<1.2 UJ	<1.1 UJ	8.9 J	3.7 J	<1.1 UJ	<1.1 UJ
Sodium		---	---	---	---	---	---
Thallium		---	---	---	---	---	---
Antimony		---	---	---	---	---	---
Arsenic		<34.6 U	<32.8 U	<76.5 U	<75.7 U	<34.5 U	<32.6 U
Barium		27.9	37.4	212	209	28.8	29.9
Beryllium		---	---	---	---	---	---
Cadmium		<0.58 U	<0.55 U	4.3	5.5	<0.57 U	<0.54 U
Chromium		11.2 J	12.0 J	382 J	354 J	13.2 J	4.9 J
Cobalt		---	---	---	---	---	---
Copper		---	---	---	---	---	---
Vanadium		---	---	---	---	---	---
Zinc		---	---	---	---	---	---
Calcium		---	---	---	---	---	---
Selenium		<28.8 U	<27.3 U	<63.7 U	<63.1 U	<28.7 U	<27.2 U
Mercury		0.18 J	---	0.89 J	---	0.032 J	---
Cyanide (Total)		---	---	---	---	---	---

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		SITE	AD-05	BV01COMP	CMS-060	CMS-060	CMS-060	CMS-060
		SAMPLE ID	AD-05-A	BV01-COMP	CMS-060-A	GP09-FD	CMS-060-B	CMS-060-C
CONSTITUENT	(Units in mg/kg)	DATE	07/20/99	11/05/99	06/30/99	06/30/99	06/30/99	06/30/99
		DEPTH (ft)	0.50	2.00	0.50	0.50	1.50	2.50
		RESULT TYPE	Primary	Primary	Primary	Duplicate 1	Primary	Primary
Aluminum		---	5470	5190	5360	5920	6110	
Iron		---	9480	12300 J	12200	10600	17700	
Lead		137	523	35.7	65.3 J	66.9	45.9	
Magnesium		---	1280	1530	1290	1200	1420	
Manganese		---	138	271	214	170	370	
Molybdenum		---	1.7 J	2.3 J	2.1 J	1.2 J	1.7 J	
Nickel		---	6.7	8.8	9.6	7.0	6.5	
Potassium		---	1100	1160	898	746	776	
Silver		0.33 J	<1.1 U	<1.0 U	<1.1 U	<1.0 U	<1.1 U	
Sodium		---	47.9 J	63.3 J	96.6 J	171 J	61.6 J	
Thallium		---	<228 U	<205 U	<212 U	<206 U	<219 U	
Antimony		---	<6.8 UJ	---	---	0.24 J	---	
Arsenic		<48.1 U	<34.1 U	7.6 J	7.7 J	6.7 J	9.1 J	
Barium		65.9	26.4	40.2	62.5	73.3	36.8	
Beryllium		---	0.31 J	0.66 J	1.3 J	0.53	0.52 J	
Cadmium		1.2	<0.57 U	0.21 J	0.52 J	0.16 J	<0.55 U	
Chromium		90.6 J	135 J	11.0	12.0	11.0	9.8	
Cobalt		---	3.8 J	4.4 J	4.6 J	3.9 J	3.5 J	
Copper		---	8.1	28.4 J	85.7 J	23.9	12.7	
Vanadium		---	19.7 J	15.6	20.2	13.9	15.4	
Zinc		---	38.6	53.2	72.9	55.8	44.5	
Calcium		---	1980	749 J	1040 J	1720 J	1000 J	
Selenium		<40.1 U	<28.5 U	0.67 J	0.55 J	0.57 J	1.1 J	
Mercury		0.16 J	0.021 J	0.037 J	0.067 J	0.070 J	0.060 J	
Cyanide (Total)		---	<0.57 UJ	<0.51 U	<0.53 U	<0.51 U	<0.55 U	

For RCL 6010B Q

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT (Units in mg/kg)	SITE	CMS-060	CMS-060	CMS-089	CMS-089	CMS-089	CMS-089
	SAMPLE ID	CMS-060-D	CMS-060-E	CMS-089-A	CMS-089-B	CMS-089-C	CMS-089-D
	DATE	06/30/99	06/30/99	06/28/99	06/28/99	06/28/99	06/28/99
	DEPTH (ft)	3.50	4.50	0.50	1.50	2.50	3.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum		7650	5560	8810	6040	4820	6330
Iron		17300	11900	11500	16200	9660	13100
Lead		15.7	35.8	48.5 J	93.0 J	59.4 J	73.7 J
Magnesium		701	1400	864 J	2340 J	1120 J	1530 J
Manganese		267	244	132	185	78.3	146
Molybdenum		2.0 J	1.1 J	1.3 J	2.8 J	1.6 J	4.2 J
Nickel		3.7 J	7.8	5.0 J	13.0 J	6.2 J	8.6 J
Potassium		312 J	1130	486 J	1050	629	1070
Silver		<1.4 U	<1.2 U	<1.0 U	<1.1 U	0.16 J	<1.1 U
Sodium		99.7 J	83.0 J	71.7 J	186 J	134 J	164 J
Thallium		<270 U	<233 U	<204 U	<213 U	<213 U	<212 U
Antimony		---	---	<6.1 UJ	1.3 J	0.46 J	0.90 J
Arsenic		3.0 J	5.9 J	3.5 J	3.6 J	3.9 J	3.7 J
Barium		26.0 J	41.1	27.7 J	51.7 J	44.9 J	40.1 J
Beryllium		0.73	0.51 J	0.70	0.36 J	0.38 J	0.45 J
Cadmium		<0.68 U	0.15 J	<0.33 U	2.1 J	3.1 J	1.2 J
Chromium		6.8	7.6	11.8 J	20.2 J	27.5 J	23.8 J
Cobalt		2.0 J	4.2 J	1.8 J	5.4 J	1.9 J	3.7 J
Copper		4.1	18.2	10.7 J	27.6 J	31.7 J	19.9 J
Vanadium		17.8	12.0	14.8 J	12.9 J	12.0 J	18.6 J
Zinc		20.4	46.5	63.5 J	138 J	64.2 J	104 J
Calcium		1470 J	879 J	1090	1560	682	1190
Selenium		1.3 J	0.53 J	0.64 J	0.59 J	0.95 J	0.70 J
Mercury		0.030 J	0.031 J	0.082 J	0.25 J	0.28 J	0.18 J
Cyanide (Total)		<0.68 U	<0.58 U	<0.51 U	0.89	<0.53 U	<0.53 U

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Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT (Units in mg/kg)	SITE	CMS-098	CMS-118	CMS-118	CMS-118	CMS-118	CMS-118
	SAMPLE ID	CMS-098-A	CMS-118-A	CMS-118-B	CMS-118-C	CMS-118-D	CMS-118-E
	DATE	06/28/99	06/30/99	06/30/99	06/30/99	06/30/99	06/30/99
	DEPTH (ft)	0.50	0.50	1.50	2.50	3.50	4.50
	RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum		4590	5950	6190	8780	6990	5440
Iron		9670	10100	11500	17600	13900	8630
Lead		59.7 J	69.8	88.2	204	182	22.5
Magnesium		741 J	826	1370	1140	772	900
Manganese		353	172	197	543	596	195
Molybdenum		2.3 J	6.7	3.9 J	6.1	2.3 J	1.4 J
Nickel		5.5 J	7.2	20.0	28.7	10	5.0 J
Potassium		374 J	380 J	611	578 J	607 J	459 J
Silver		<1.8 U	<1.1 U	<1.1 U	<1.3 U	<1.5 U	<1.3 U
Sodium		214 J	103 J	170 J	400 J	257 J	99.4 J
Thallium		<362 U	<217 U	0.58 J	2.6 J	<303 U	<259 U
Antimony		0.59 J	---	0.46 J	0.78 J	0.34 J	---
Arsenic		3.3 J	5.0 J	6.8 J	49.3	7.4 J	2.3 J
Barium		24.5 J	55.9	93.5	437	150	31.2
Beryllium		0.74 J	0.61	0.61	2.1	1.1	0.68
Cadmium		<0.48 U	0.53 J	0.88	1.7	0.46 J	0.19 J
Chromium		15.3 J	15.6	36.1	32.5	25.4	9.3
Cobalt		3.1 J	3.2 J	4.9 J	11.9	5.3 J	1.9 J
Copper		12.9 J	22.5	31.3	93.7	45.9	5.7
Vanadium		15.5 J	13.7	16.1	33.4	15.7	11.1
Zinc		64.0 J	77.6	106	213	79.1	25.6
Calcium		1580	2450 J	4790 J	7050 J	4240 J	1790 J
Selenium		1.4 J	0.77 J	0.85 J	15.1 J	2.3 J	<32.3 U
Mercury		0.14 J	0.14 J	0.14 J	0.65 J	0.43 J	<0.052 U
Cyanide (Total)		<0.91 U	<0.54 U	<0.56 U	<0.66 U	<0.76 U	<0.65 U

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Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT	(Units in mg/kg)	SITE	CMS-142	CMS-142	CMS-159	CMS-164	CMS-173	CMS-173
		SAMPLE ID	CMS-142-A	GP07-FD	CMS-159-A	CMS-164-A	CMS-173-A	CMS-173-B
		DATE	06/28/99	06/28/99	07/01/99	06/22/99	06/28/99	06/28/99
		DEPTH (ft)	0.50	0.50	0.50	0.50	0.50	1.50
		RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
Aluminum			4730	4510	8060	8970 J	11900	5780
Iron			8820	7450	51300	11700	13800	4220
Lead			95.8 J	66.7 J	620	323 J	243 J	11.9 J
Magnesium			570 J	458 J	2430	1100 J	1570 J	661 J
Manganese			82.9	69.8	362	489 J	186	108
Molybdenum			2.7 J	2.2 J	5.7 J	35.6	9.2 J	1.4 J
Nickel			5.1 J	4.0 J	45.3	18.4	20.7 J	5.1 J
Potassium			266 J	225 J	1050 J	714 J	722 J	262 J
Silver			0.33 J	<1.7 U	0.60 J	1.2 J	0.57 J	<1.6 U
Sodium			77.6 J	68.7 J	352 J	162 J	250 J	121 J
Thallium			<349 U	<334 U	<658 U	<612 U	<660 U	<313 U
Antimony			0.61 J	<10.0 U	0.83 J	7.7 J	3.8 J	<9.4 UJ
Arsenic			4.4 J	3.4 J	8.1 J	6.6 J	8.3 J	1.5 J
Barium			21.8 J	19.0 J	181	212 J	104 J	27.4 J
Beryllium			0.53 J	0.55 J	0.65 J	1.9	1.9	1.3
Cadmium			<0.47 U	<0.49 U	3.1	1.2 J	1.7 J	0.64 J
Chromium			33.3 J	22.1 J	133	185 J	196 J	7.4 J
Cobalt			1.6 J	1.3 J	7.1 J	4.5 J	3.8 J	1.7 J
Copper			18.5 J	13.1 J	260	177	105 J	3.4 J
Vanadium			22.6 J	15.7 J	54.0	61.9	45.0 J	9.9 J
Zinc			55.3 J	59.4 J	828	281	183 J	128 J
Calcium			565 J	467 J	4690 J	2230 J	1770	1160
Selenium			1.5 J	1.0 J	4.9 J	2.7 J	3.9 J	0.81 J
Mercury			0.30 J	0.31 J	2.0 J	1.1	0.97 J	0.034 J
Cyanide (Total)			<0.87 U	<0.83 U	<1.6 U	<1.5 U	<1.7 U	<0.78 U

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Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT	(Units in mg/kg)	SITE	CMS-192	CMS-215	CMS-237	CMS-237	CMS-237	CMS-405
		SAMPLE ID	CMS-192-A	CMS-215-A	CMS-237-A	CMS-237-B	CMS-237-C	CMS-405-A
		DATE	06/30/99	06/30/99	06/23/99	06/23/99	06/23/99	06/23/99
		DEPTH (ft)	0.50	0.50	0.50	1.50	2.50	0.50
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum			13900	16100	8620 J	5360 J	8150 J	6600 J
Iron			20700	21500	17600	72000	42800	14500
Lead			551	529	228 J	1450 J	494 J	4.7 J
Magnesium			2070	3270	841	1550	1280	2580
Manganese			151	411	153 J	404 J	396 J	211 J
Molybdenum			8.2 J	12.2	5.2	14.6	17.4	0.38 J
Nickel			23.1	48.8	11.4	43.4	37.6	11.0
Potassium			1030 J	1370 J	410 J	511 J	552 J	1700
Silver			4.6	1.4 J	1.3 J	35.5	2.6	<1.1 U
Sodium			164 J	238 J	80.6 J	118 J	147 J	262 J
Thallium			<627 U	<596 U	<258 U	<252 U	<384 U	<212 U
Antimony			4.1 J	1.1 J	2.8 J	20.3 J	7.2 J	<6.4 UJ
Arsenic			18.0 J	9.9 J	4.2 J	12.3 J	10.7 J	1.2 J
Barium			301	251	209 J	870 J	254 J	33.4 J
Beryllium			2.3	3.2	0.67	0.50 J	1.5	0.33 J
Cadmium			4.1	2.1	8.4	33.7	12.2	<0.53 U
Chromium			472	256	48.1 J	220 J	190	3.5 J
Cobalt			4.3 J	7.6 J	3.8 J	9.4	14.6	5.7
Copper			216	210	126	743	293	10.8
Vanadium			55.8	52.9	19.8	36.5	42.1	16.4
Zinc			421	762	652	3330	3080	39.1
Calcium			1370 J	2090 J	1890 J	4330 J	5590 J	1860 J
Selenium			2.8 J	2.2 J	0.99 J	2.0 J	3.1 J	<26.6 U
Mercury			0.98 J	0.90 J	0.31	0.83	0.70	<0.042 U
Cyanide (Total)			2.4	<1.5 U	1.4	1.2	<0.96 U	<0.53 U

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Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT (Units in mg/kg)	SITE	CMS-405	CMS-405	CMS-405	CMS-405	CMS-405	CMS-407
	SAMPLE ID	CMS-405-B	GP04-FD	CMS-405-C	CMS-405-D	CMS-405-E	CMS-407-A
	DATE	06/23/99	06/23/99	06/23/99	06/23/99	06/23/99	06/28/99
	DEPTH (ft)	1.50	1.50	2.50	3.50	4.50	0.50
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
Aluminum		7940 J	3220 J	2860 J	3670 J	4350 J	10000
Iron		30500	23800	46900	51400	7150	25200
Lead		306 J	450 J	1080 J	3160 J	38.5 J	2.8 J
Magnesium		2730	898 J	1060	1070	659 J	5690 J
Manganese		453 J	336 J	526 J	1060 J	81.7 J	237
Molybdenum		4.2 J	7.6	1.6 J	2.4 J	1.7 J	0.34 J
Nickel		32.2	41.2	35.0	53.6	3.2 J	29.5 J
Potassium		839 J	396 J	518 J	445 J	285 J	1460
Silver		3.8	17.7	3.1	1.4	<1.4 U	<1.1 U
Sodium		310 J	342 J	320 J	333 J	185 J	338 J
Thallium		<383 U	<375 U	<390 U	<227 U	<278 U	<213 U
Antimony		1.5 J	5.2 J	4.0 J	6.2 J	0.30 J	<6.4 UJ
Arsenic		5.8 J	12.9 J	14.9 J	11.7 J	2.5 J	1.3 J
Barium		210 J	246 J	254 J	865 J	23.9 J	31.3 J
Beryllium		0.46 J	0.28 J	0.21 J	0.41 J	0.69	0.37 J
Cadmium		11.5	10.6	7.7	2.8	0.20 J	<0.34 U
Chromium		62.4 J	51.0 J	24.6 J	44.1 J	20.0 J	4.6 J
Cobalt		8.3 J	8.3 J	6.7 J	7.7	1.4 J	13.8 J
Copper		147	206	167	112	15.3	26.4 J
Vanadium		21.5	15.0	31.8	41.7	9.6	34.6 J
Zinc		3270	1770	2830	1820	26.4	42.4 J
Calcium		18100 J	1930 J	4190 J	6140 J	2210 J	2710
Selenium		2.3 J	3.2 J	2.8 J	1.5 J	0.59 J	0.59 J
Mercury		0.15	0.38	0.097	0.95	0.29	<0.043 UJ
Cyanide (Total)		<0.96 U	4.4	<0.97 U	<0.57 U	<0.69 U	<0.53 U

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Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

Date: 03/01/00

		SITE	CMS-407	CMS-407	CMS-407	CMS-408	CMS-408	CMS-408
		SAMPLE ID	CMS-407-B	CMS-407-C	CMS-407-D	CMS-408-A	CMS-408-B	CMS-408-C
CONSTITUENT	(Units in mg/kg)	DATE	06/28/99	06/28/99	06/28/99	06/28/99	06/28/99	06/28/99
		DEPTH (ft)	1.50	2.50	3.50	0.50	1.50	2.50
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum			11100	4460	4550	7450	8670	5410
Iron			27100	13400	8120	16900	44700	35100
Lead			14.4 J	184 J	321 J	4.1 J	716 J	861 J
Magnesium			5980 J	1070 J	1100 J	3250 J	3240 J	1600 J
Manganese			316	356	201	233	353	195
Molybdenum			0.67 J	0.68 J	0.67 J	<4.1 U	6.3	5.2
Nickel			27.0 J	33.8 J	3.9 J	13.8 J	36.9 J	17.2 J
Potassium			2890	522 J	532 J	1230	1090	971
Silver			<1.3 U	<1.7 U	<1.3 U	<1.0 U	2.6	0.57 J
Sodium			314 J	144 J	139 J	188 J	534 J	347 J
Thallium			<264 U	<334 U	<257 U	<207 U	<263 U	<259 U
Antimony			<7.9 UJ	1.2 J	0.70 J	<6.2 UJ	9.7 J	2.4 J
Arsenic			1.5 J	7.1 J	2.3 J	1.5 J	7.6 J	9.9 J
Barium			52.0 J	32.8 J	29.2 J	24.6 J	672 J	785 J
Beryllium			0.41 J	0.52 J	0.54 J	0.34 J	0.52 J	0.45 J
Cadmium			0.72 J	<0.32 U	<0.14 U	<0.30 U	18.0 J	1.0 J
Chromium			6.3 J	87.1 J	18.5 J	5.2 J	61.5 J	31.1 J
Cobalt			13.6 J	3.9 J	2.0 J	5.8 J	14.3 J	6.4 J
Copper			32.3 J	32.9 J	13.6 J	10.7 J	287 J	120 J
Vanadium			28.2 J	14.2 J	8.9 J	14.9 J	43.1 J	31.4 J
Zinc			71.7 J	295 J	30.9 J	39.2 J	851 J	226 J
Calcium			2760	2120	1720	1770	4850	4790
Selenium			<33.0 U	0.68 J	<32.2 U	0.48 J	1.8 J	2.4 J
Mercury			0.12 J	0.25 J	0.14 J	<0.041 UJ	1.8 J	0.96 J
Cyanide (Total)			<0.66 U	<0.84 U	<0.64 U	<0.52 U	<0.66 U	<0.65 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

For RCL 6010B_Q

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

For RCL 6010B_Q

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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Date: 03/01/00

EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT	(Units in mg/kg)	SITE	CMS-417	CMS-417	CMS-417	CMS-417	CMS-418	CMS-418
		SAMPLE ID	CMS-417-A	CMS-417-B	CMS-417-C	CMS-417-D	CMS-418-A	CMS-418-B
		DATE	06/24/99	06/24/99	06/24/99	06/24/99	06/30/99	06/30/99
		DEPTH (ft)	0.50	1.50	2.50	3.50	0.50	1.50
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum			2940 J	4890 J	4320 J	6230 J	2490	1890
Iron			32600	15800	8110	11200	8080	7160
Lead			805 J	444 J	374 J	66.7 J	89.4	220
Magnesium			674	1220	741	888	1150	768
Manganese			123 J	220 J	158 J	150 J	134	98.7
Molybdenum			25.3	21.9	2.4 J	1.5 J	2.6 J	1.3 J
Nickel			31.3	30.0	6.0	10.4	11.0	4.8
Potassium			427 J	878	353 J	818	388 J	287 J
Silver			6.2	5.0	<1.2 U	<1.1 U	<1.0 U	<1.1 U
Sodium			70.0 J	82.1 J	101 J	172 J	<507 U	<565 U
Thallium			<213 U	<214 U	<236 U	<230 U	<203 U	<226 U
Antimony			27.8 J	17.7 J	0.33 J	0.31 J	---	---
Arsenic			6.5 J	10.2 J	6.2 J	7.5 J	1.5 J	1.3 J
Barium			322 J	1010 J	154 J	87.5 J	16.6 J	18.8 J
Beryllium			0.20 J	0.44 J	0.49 J	0.71	0.21 J	0.19 J
Cadmium			14.7	180	0.26 J	0.23 J	0.16 J	0.16 J
Chromium			317 J	350 J	10.1 J	8.4 J	9.9	6.8
Cobalt			30.1	17.7	3.0 J	4.6 J	3.5 J	1.6 J
Copper			288	934	19.3	58.0	12.7	11.4
Vanadium			16.7	22.3	13.2	15.7	8.6	6.1
Zinc			352	2460	94.4	129	44.8	56.0
Calcium			611 J	1740 J	2160 J	1790 J	504 J	428 J
Selenium			2.9 J	10.1 J	1.2 J	1.3 J	<25.3 U	<28.2 U
Mercury			7.4	1.5	0.24	0.22	<0.041 U	<0.045 U
Cyanide (Total)			8.2	4.3	<0.59 U	<0.57 U	<0.51 U	<0.56 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

Page: 1K of 1P

Date: 03/01/00

EPA Centredale Manor Apartments

Centredale, RI

CONSTITUENT	(Units in mg/kg)	SITE	CMS-419	CMS-419	CMS-419	CMS-419	CMS-423	CMS-423
		SAMPLE ID	CMS-419-B	CMS-419-D	CMS-419-F	CMS-419-H	CMS-423-B	CMS-423-D
		DATE	07/07/99	07/07/99	07/07/99	07/07/99	07/07/99	07/07/99
		DEPTH (ft)	1.50	3.50	5.50	7.50	1.50	3.50
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum			4720	11400	5240	3270	6010	7610
Iron			50700	18300	23100	7870	12400	24600
Lead			2010 J	27.1 J	4.8 J	5.7 J	24.1 J	55.3 J
Magnesium			1350 J	1450 J	815 J	766 J	2200 J	1160 J
Manganese			351	348	6420	1080	209	274
Molybdenum			27.1	3.8 J	7.0 J	3.0 J	1.4 J	2.4 J
Nickel			28.6	8.3	6.6 J	6.3	15.1	5.8
Potassium			596	1030	498 J	677	676	2140 J
Silver			3.2	<1.3 U	<3.3 G	<1.2 U	1.4	<1.1 U
Sodium			416 J	622 J	124 J	129 J	77.5 J	101 J
Thallium			<224 U	<255 U	6.2 J	<237 U	<212 U	<224 U
Antimony			21.4 J	<7.6 UJ	1.6 J	<7.1 UJ	<6.3 UJ	<6.7 UJ
Arsenic			8.3 J	7.2 J	5.7 J	3.0 J	3.4 J	5.6 J
Barium			845	76.5	68.6	38.3	34.0	68.4
Beryllium			0.43 J	1.0	1.4 J	3.9	0.39 J	0.67
Cadmium			35.9 J	<0.64 U	<1.6 G	0.15 J	4.0 J	3.7 J
Chromium			331 J	11.7 J	2.4 J	3.8 J	17.1 J	12.6 J
Cobalt			12.9	6.1 J	18.9	3.1 J	4.5 J	3.7 J
Copper			333 J	13.7 J	7.4 J	4.7 J	26.9 J	17.4 J
Vanadium			18.1	15.8	8.8 J	6.0	20.5	14.7
Zinc			2150	65.8	38.8	23.5	72.3	131
Calcium			5290	1900	550 J	877	1080	1050
Selenium			3.8 J	0.65 J	2.0 J	<29.6 U	1.0 J	1.9 J
Mercury			5.1 J	0.12 J	<0.044 U	0.76 J	0.24 J	0.094 J
Cyanide (Total)			1.2	<0.64 U	<0.54 U	<0.59 U	<0.53 U	1.5

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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Date: 03/01/00

EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT	(Units in mg/kg)	SITE	CMS-423	CMS-423	CMS-423	CMS-427	CMS-427	CMS-427
		SAMPLE ID	GP13-FD	CMS-423-F	CMS-423-H	CMS-427-B	CMS-427-D	CMS-427-F
		DATE	07/07/99	07/07/99	07/07/99	07/06/99	07/06/99	07/06/99
		DEPTH (ft)	3.50	5.50	7.50	1.50	3.50	5.50
		RESULT TYPE	Duplicate 1	Primary	Primary	Primary	Primary	Primary
Aluminum			8110	8080	4710	7470	6670	5160
Iron			16600	19300	11900	19800	13700	13300
Lead			101 J	20.1 J	5.0 J	169 J	13.8 J	24.8 J
Magnesium			1730 J	1780 J	1460 J	2910 J	2780 J	1780 J
Manganese			225	247	302	251	204	186
Molybdenum			3.3 J	1.6 J	1.8 J	2.9 J	0.53 J	2.5 J
Nickel			9.5	13.3	5.0	22.4	25.4	10.2
Potassium			1060 J	2000	993	745	529 J	743
Silver			0.20 J	0.21 J	<1.1 U	1.3	2.3	0.45 J
Sodium			101 J	83.8 J	126 J	283 J	182 J	186 J
Thallium			<239 U	<221 U	<220 U	<217 U	<247 U	<229 U
Antimony			<7.2 UJ	<6.6 UJ	<6.6 UJ	1.3 J	<7.4 UJ	<6.9 UJ
Arsenic			5.2 J	3.6 J	2.4 J	3.2 J	1.9 J	2.7 J
Barium			108	34.9	17.7 J	61.5	24.3 J	24.6
Beryllium			0.73	0.64	0.39 J	0.49 J	0.43 J	0.66
Cadmium			4.1 J	0.37 J	<0.55 U	3.3 J	0.47 J	0.70 J
Chromium			28.5 J	10.2 J	5.8 J	46.8 J	15.6 J	15.0 J
Cobalt			4.3 J	3.8 J	2.8 J	7.2	4.6 J	4.1 J
Copper			39.1 J	21.6 J	4.7 J	48.0 J	42.4 J	16.2 J
Vanadium			17.1	8.8	8.5	18.5	12.1	13.0
Zinc			189	84.3	28.1	232	50.9	55.9
Calcium			1350	825	1230	1970	817	955
Selenium			1.0 J	<27.7 U	<27.6 U	0.52 J	<30.8 U	0.50 J
Mercury			0.18 J	0.037 J	<0.044 U	0.77 J	0.17 J	0.30 J
Cyanide (Total)			<0.60 U	<0.55 U	<0.55 U	2.7	1.0	<0.57 U

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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Date: 03/01/00

EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT	(Units in mg/kg)	SITE	CMS-427	CMS-428	CMS-428	CMS-428	CMS-449	CMS-449
		SAMPLE ID	CMS-427-H	CMS-428-B	CMS-428-D	CMS-428-F	CMS-449-F	CMS-449-H
		DATE	07/06/99	07/20/99	07/20/99	07/20/99	07/20/99	07/20/99
		DEPTH (ft)	7.50	1.50	3.50	5.50	5.50	7.50
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum			2080	8480	5030	5060	4990	3920
Iron			4020	21600	13000	13300	7320	7460
Lead			2.4 J	6.8 J	5.6 J	3.6 J	15.4	96.2
Magnesium			684 J	1630	616	2080	998	710
Manganese			68.5	567 J	258 J	571 J	116 J	81.1 J
Molybdenum			<5.0 U	2.4 J	4.9	2.5 J	0.55 J	1.6 J
Nickel			2.8 J	12.9	5.7	5.8	3.3 J	9.2
Potassium			448 J	1540	600	1720	848	515 J
Silver			<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.2 U	<1.2 U
Sodium			76.8 J	123 J	86.1 J	102 J	88.6 J	175 J
Thallium			<249 U	<215 U	<226 U	<226 U	<232 U	<240 U
Antimony			<7.5 UJ	<6.4 UJ	<6.8 UJ	<6.8 UJ	<7.0 UJ	<7.2 UJ
Arsenic			0.76 J	3.5 J	4.1 J	3.1 J	1.7 J	4.8 J
Barium			10.2 J	46.9 J	31.5 J	69.8 J	21.9 J	94.5 J
Beryllium			0.19 J	0.79	0.74	0.51 J	0.28 J	0.49 J
Cadmium			<0.62 U	0.54	0.28 J	0.27 J	<0.58 U	<0.60 U
Chromium			2.6 J	13.2	6.2	5.6	5.8	7.3
Cobalt			1.4 J	6.8	4.8 J	4.1 J	2.0 J	4.5 J
Copper			2.8 J	50.0	4.1	7.3	14.2	25.5
Vanadium			4.1 J	11.7	7.9	12.1	9.7	11.2
Zinc			12.7	39.3 J	27.6 J	37.5 J	21.6 J	76.4 J
Calcium			455 J	1790 J	689 J	873 J	1350 J	1770 J
Selenium			<31.1 U	0.70 J	0.47 J	<28.3 U	<29.0 U	1.2 J
Mercury			<0.050 U	<0.043 UJ	0.023 J	<0.045 UJ	<0.046 UJ	0.25 J
Cyanide (Total)			<0.62 U	<0.54 UJ	<0.57 UJ	<0.57 UJ	<0.58 UJ	<0.60 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

Date: 03/01/00

CONSTITUENT	(Units in mg/kg)	SITE	CMS-449	CMS-451	CMS-451	CMS-451	CMS-455	CMS-455
		SAMPLE ID	CMS-449-J	CMS-451-F	CMS-451-H	CMS-451-J	CMS-455-C	CMS-455-E
		DATE	07/20/99	07/20/99	07/20/99	07/20/99	07/19/99	07/19/99
		DEPTH (ft)	9.50	5.50	7.50	9.50	2.50	4.50
		RESULT TYPE	Primary	Primary	Primary	Primary	Primary	Primary
Aluminum		2870	2610	2870	5560	8090	10800	
Iron		6240	9600	5510	13600	12100	15300	
Lead		20.1	62.2	21.7	5.9 J	62.3	8.8 J	
Magnesium		678	507 J	372 J	1530	959	1560	
Manganese		95.7 J	97.7 J	72.2 J	141 J	184 J	179 J	
Molybdenum		0.42 J	1.3 J	1.2 J	0.78 J	1.5 J	2.4 J	
Nickel		2.4 J	11.0	3.5 J	3.0 J	14.3	(5.7)	
Potassium		542	417 J	236 J	1460	355 J	1120	
Silver		<1.1 U	<1.2 U	<1.2 U	<1.1 U	<1.2 U	<1.4 U	
Sodium		86.8 J	112 J	73.3 J	112 J	737	189 J	
Thallium		<214 U	<231 U	<240 U	<225 U	<240 U	<289 U	
Antimony		<6.4 UJ	<6.9 UJ	<7.2 UJ	<6.7 UJ	0.28 J	<8.7 UJ	
Arsenic		0.87 J	9.7 J	1.6 J	2.7 J	9.3 J	3.1 J	
Barium		11.8 J	57.3 J	18.8 J	20.5 J	378 J	32.4 J	
Beryllium		0.20 J	0.69	0.25 J	0.44 J	1.5	0.84	
Cadmium		<0.54 U	0.35 J	<0.60 U	<0.56 U	0.42 J	0.21 J	
Chromium		4.0	31.9	4.3	4.7	10.4	10.0	
Cobalt		1.9 J	4.6 J	1.8 J	2.3 J	9.4	3.5 J	
Copper		5.0	28.0	14.3	3.6	158	2.8 J	
Vanadium		10.4	12.6	8.3	13.4	18.5	21.2	
Zinc		16.6 J	183 J	24.7 J	24.0 J	166 J	30.2 J	
Calcium		1130 J	1280 J	1200 J	1830 J	7210 J	1640 J	
Selenium		<26.8 U	0.92 J	0.82 J	0.58 J	1.6 J	0.74 J	
Mercury		0.027 J	0.22 J	0.063 J	<0.045 UJ	0.75 J	<0.058 UJ	
Cyanide (Total)		<0.54 UJ	1.8 J	<0.60 UJ	<0.56 UJ	<0.60 UJ	<0.72 UJ	

() = Less than Reporting Limit

For RCL 6010L

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

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Date: 03/01/00

EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT (Units in mg/kg)	SITE	CMS-455	CMS-455	CMS-455	CMS-455	CMS-456	CMS-456
	SAMPLE ID	CMS-455-F	GP17-FD	CMS-455-H	CMS-455-J	CMS-456-A	CMS-456-B
	DATE	07/19/99	07/19/99	07/19/99	07/19/99	07/20/99	07/20/99
	DEPTH (ft)	5.50	5.50	7.50	9.50	0.50	1.50
	RESULT TYPE	Primary	Duplicate 1	Primary	Primary	Primary	Primary
Aluminum		6900	11700	7760	3820	3930	5280
Iron		12400	13000	10600	8320	6540	8830
Lead		38.3	21.6 J	10.8 J	5.2 J	175	448
Magnesium		691	1030	1460	993	974	1510
Manganese		133 J	204 J	168 J	105 J	1700 J	244 J
Molybdenum		2.8 J	2.6 J	1.4 J	1.2 J	1.9 J	5.0 J
Nickel		4.8 J	5.2 J	5.7	3.0 J	9.1	74.3
Potassium		548 J	687 J	1240	832	538 J	953
Silver		<1.3 U	<1.5 U	<1.4 U	<1.2 U	<1.5 U	0.74 J
Sodium		165 J	237 J	139 J	85.5 J	164 J	191 J
Thallium		<255 U	<306 U	<271 U	<240 U	<299 U	<358 U
Antimony		<7.7 UJ	<9.2 UJ	<8.1 UJ	<7.2 UJ	1.1 J	0.98 J
Arsenic		3.9 J	3.9 J	2.7 J	2.0 J	2.8 J	3.1 J
Barium		46.1 J	35.8 J	33.3 J	16.4 J	34.4 J	60.8 J
Beryllium		0.74	1.3	0.57 J	0.30 J	0.41 J	0.63 J
Cadmium		0.37 J	0.40 J	0.21 J	0.15 J	0.91	3.7
Chromium		11.3	15.5	8.9	4.9	36.2	180
Cobalt		2.1 J	2.4 J	3.0 J	1.8 J	2.6 J	4.1 J
Copper		8.4	6.7 J	5.8	2.8 J	28.9	64.8
Vanadium		17.0	17.5	14.7	8.1	15.5	72.5
Zinc		28.2 J	31.4 J	28.4 J	18.8 J	189 J	288 J
Calcium		2680 J	2110 J	1760 J	1190 J	1300 J	1600 J
Selenium		1.2 J	0.77 J	<33.9 U	<30.0 U	<37.4 U	0.77 J
Mercury		0.087 J	0.066 J	<0.054 UJ	<0.048 UJ	0.31 J	0.88 J
Cyanide (Total)		<0.64 UJ	<0.77 UJ	<0.68 UJ	<0.60 UJ	<0.75 UJ	<0.89 UJ

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed.

Table 6

Metals Analytical Results In Soil
Validated Results (Sampled from 6/21/99 - 11/5/99)

Page: 1P of 1P

Date: 03/01/00

EPA Centredale Manor Apartments
Centredale, RI

CONSTITUENT (Units in mg/kg)	SITE	CMS-703
	SAMPLE ID	CMS-703-COMP
	DATE	11/05/99
	DEPTH (ft)	1.00
	RESULT TYPE	Primary
Aluminum		5590
Iron		10100
Lead		84.9
Magnesium		1230
Manganese		255
Molybdenum		1.8 J
Nickel		8.9
Potassium		762
Silver		<1.2 U
Sodium		60.1 J
Thallium		<249 U
Antimony		<7.5 UJ
Arsenic		<10.7 U
Barium		43.0
Beryllium		0.40 J
Cadmium		<0.62 U
Chromium		22.8 J
Cobalt		3.3 J
Copper		25.9
Vanadium		18.9 J
Zinc		60.4
Calcium		2850
Selenium		<31.1 U
Mercury		0.10
Cyanide (Total)		<0.62 UJ
Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed		
For RCL 6010B		