

US EPA ARCHIVE DOCUMENT

Table 1. Sample Team Members/Tasks
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
September 1999

Name	Affiliation	Team	Task Performed	Date(s) On-site
Amanda Daly	REAC	I	Recorder/GPS	15-19 February 1999
Rich Fisher	U.S. EPA Region I	I	Sample collection/Decon	16-18 February 1999
Dan Granz	U.S. EPA Region I	I	Sample collection	16-18 February 1999
Beth Deabay	U.S. EPA Region I	I	Oversite	16-18 February 1999
Brian Holderness	REAC	II	Recorder	15-19 February 1999
Al Lupiano	REAC	II	Sample collection/ Decon/H&S Coordinator	15-19 February 1999
Pete Kadarauskas	U.S. EPA Region I	II	Sample collection	16-18 February 1999
JoAnn Camacho	U.S. EPA-ERTC	II	Oversite	15-18 February 1999
Barry Forsythe	REAC		Decon/Rover	15-19 February 1999
Noel Rogers	REAC	III	Geophysical survey	16-18 February 1999
Shawn Kennedy	START Region I	III	Geophysical survey	16-18 February 1999
Brad Bowen	START Region I	III	Geophysical survey	16-18 February 1999
Bill Lincourt	START Region		Decon/Rover	16-18 February 1999
Tim Goddeyne	U.S. EPA-ERTC	IV	GPS	15-18 February 1999
Tim Bridges	U.S. EPA Region I	IV	GPS	16-18 February 1999
George Molnar	REAC	IV	GPS/Decon/Rover	15-19 February 1999
Ted Bzenas	U.S. EPA Region I		OSC	16-19 February 1999
Desiré Moyer	U.S. EPA Region I		OSC	16-18 February 1999
Michelle Chipaloski	REAC	V	Sample Management	15-19 February 1999
Elsa Matos	REAC	V	Sample Management	15-19 February 1999

**Table 2. Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
September 1999**

Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-001	I	2-17-99	0740
CMS-001DUP	I	2-17-99	0740
CMS-002	I	2-17-99	0750
CMS-003	I	2-17-99	0759
CMS-004	I	2-17-99	0808
CMS-004DUP	I	2-17-99	0808
CMS-005	I	2-17-99	0816
CMS-005DUP	I	2-17-99	0816
CMS-006	I	2-17-99	0827
CMS-007	I	2-17-99	0835
CMS-008	I	2-17-99	0841
CMS-009	I	2-17-99	0849
CMS-010	I	2-17-99	0900
CMS-011	I	2-17-99	0907
CMS-012MS/MSD	I	2-17-99	0915
CMS-013MS/MSD	I	2-17-99	0921
CMS-014	I	2-17-99	0935
CMS-015	I	2-17-99	0943
CMS-016	I	2-17-99	0955
CMS-017	I	2-17-99	1005
CMS-018	I	2-17-99	1016
CMS-019	I	2-17-99	1026
CMS-020	I	2-17-99	1035
CMS-021	I	2-17-99	1041
CMS-021DUP	I	2-17-99	1041
CMS-022	I	2-17-99	1050

**Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-023MS/MSD	I	2-17-99	1100
CMS-024	I	2-17-99	1108
CMS-025MS/MSD	I	2-17-99	1114
CMS-026	II	2-16-99	0930
CMS-027MS/MSD	II	2-16-99	0940
CMS-028	II	2-16-99	0945
CMS-029	II	2-16-99	0950
CMS-030	II	2-16-99	0953
CMS-031	II	2-16-99	0955
CMS-032		(see Table 4)	
CMS-033	II	2-16-99	1010
CMS-034	II	2-16-99	1005
CMS-035	II	2-17-99	0808
CMS-036		(see Table 4)	
CMS-037	II	2-16-99	1015
CMS-038	II	2-16-99	1025
CMS-039		(see Table 4)	
CMS-040		(see Table 4)	
CMS-041MS/MSD	II	2-16-99	1035
CMS-042		(see Table 4)	
CMS-043		(see Table 4)	
CMS-044	II	2-16-99	1044
CMS-045		(see Table 4)	
CMS-046		(see Table 4)	
CMS-047	II	2-16-99	1110
CMS-048	II	2-16-99	1055

**Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-049		(see Table 4)	
CMS-050	II	2-16-99	1055
CMS-051MS/MSD	II	2-16-99	1120
CMS-052	II	2-16-99	1125
CMS-052DUP	II	2-16-99	1125
CMS-053	II	2-16-99	1130
CMS-054	II	2-16-99	1100
CMS-055	II	2-17-99	0815
CMS-056	II	2-16-99	1230
CMS-057	II	2-16-99	1332
CMS-058	II	2-16-99	1235
CMS-059	II	2-16-99	1238
CMS-060	II	2-16-99	1330
CMS-061	II	2-16-99	1245
CMS-061DUP	II	2-16-99	1245
CMS-062	II	2-16-99	1246
CMS-063	II	2-16-99	1325
CMS-064	II	2-16-99	1320
CMS-065	II	2-16-99	1315
CMS-066	II	2-16-99	1300
CMS-067	II	2-16-99	1255
CMS-068	II	2-16-99	1250
CMS-068DUP	II	2-16-99	1250
CMS-069	II	2-16-99	1340
CMS-070	II	2-16-99	1355
CMS-071	II	2-16-99	1400

**Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-071DUP	II	2-16-99	1400
CMS-072	II	2-16-99	1405
CMS-073	II	2-16-99	1619
CMS-074MS/MSD	II	2-16-99	1420
CMS-075	II	2-16-99	1415
CMS-076	II	2-16-99	1410
CMS-077		(see Table 4)	
CMS-078	II	2-16-99	1626
CMS-078DUP	II	2-16-99	1626
CMS-079MS/MSD	II	2-16-99	1624
CMS-080	II	2-16-99	1430
CMS-081	II	2-16-99	1431
CMS-082	II	2-16-99	1435
CMS-083		(see Table 4)	
CMS-084	II	2-16-99	1630
CMS-084DUP	II	2-16-99	1630
CMS-085	II	2-17-99	1430
CMS-086MS/MSD	II	2-16-99	1448
CMS-087	II	2-16-99	1445
CMS-088MS/MSD	II	2-16-99	1440
CMS-089	II	2-16-99	1600
CMS-090	II	2-17-99	1452
CMS-091	II	2-17-99	1442
CMS-092	II	2-16-99	1508
CMS-093	II	2-16-99	1503
CMS-093DUP	II	2-16-99	1503

**Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-094	II	2-16-99	1500
CMS-095	II	2-16-99	1554
CMS-096	II	2-16-99	1557
CMS-096DUP	II	2-16-99	1557
CMS-097		(see Table 4)	
CMS-098	II	2-17-99	1453
CMS-099	II	2-17-99	1603
CMS-100	II	2-17-99	1443
CMS-101MS/MSD	II	2-16-99	1521
CMS-102	II	2-16-99	1519
CMS-103	II	2-16-99	1549
CMS-103DUP	II	2-16-99	1549
CMS-104	II	2-16-99	1546
CMS-105		(see Table 4)	
CMS-106		(see Table 4)	
CMS-107	II	2-17-99	1629
CMS-108	II	2-17-99	1508
CMS-109	II	2-16-99	1529
CMS-110	II	2-16-99	1526
CMS-111	II	2-16-99	1539
CMS-112	II	2-16-99	1542
CMS-113		(see Table 4)	
CMS-114	II	2-17-99	1456
CMS-114DUP	II	2-17-99	1456
CMS-115	II	2-17-99	1513
CMS-116	II	2-17-99	1510

Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-117	I	2-16-99	1400
CMS-118	I	2-16-99	1412
CMS-119	II	2-17-99	1240
CMS-120		(see Table 4)	
CMS-121	II	2-17-99	1504
CMS-122		(see Table 4)	
CMS-123	II	2-17-99	1523
CMS-124	I	2-16-99	1422
CMS-125	I	2-16-99	1619
CMS-126	I	2-16-99	1611
CMS-126DUP	I	2-16-99	1611
CMS-127	I	2-16-99	1625
CMS-128	I	2-16-99	1632
CMS-129		(see Table 4)	
CMS-130	II	2-17-99	1525
CMS-131	I	2-16-99	1427
CMS-132	I	2-16-99	1600
CMS-133	I	2-16-99	1605
CMS-134	I	2-16-99	1640
CMS-135	II	2-17-99	1512
CMS-136	II	2-17-99	1542
CMS-137	II	2-17-99	1540
CMS-138	I	2-16-99	1436
CMS-139	I	2-16-99	1542
CMS-140	I	2-16-99	1550
CMS-141	I	2-16-99	1650

**Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-142	II	2-17-99	1519
CMS-143	II	2-17-99	1522
CMS-144	II	2-17-99	1546
CMS-145	I	2-16-99	1443
CMS-146		(see Table 4)	
CMS-147	I	2-16-99	1533
CMS-148	II	2-17-99	1603
CMS-149	II	2-17-99	1547
CMS-150	II	2-17-99	1550
CMS-151	II	2-17-99	1548
CMS-152	I	2-16-99	1449
CMS-153	I	2-16-99	1507
CMS-154	I	2-16-99	1517
CMS-155	I	2-16-99	1522
CMS-156	II	2-17-99	0840
CMS-157	II	2-17-99	0850
CMS-158	II	2-17-99	0900
CMS-158DUP	II	2-17-99	0900
CMS-159	II	2-17-99	1558
CMS-160	I	2-16-99	1457
CMS-160DUP	I	2-16-99	1457
CMS-161	II	2-17-99	1025
CMS-162	II	2-17-99	1020
CMS-163	II	2-17-99	1006
CMS-164	II	2-17-99	1010
CMS-164DUP	II	2-17-99	1010

Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-165	II	2-17-99	0910
CMS-166	II	2-17-99	0905
CMS-167	II	2-17-99	1615
CMS-168	II	2-17-99	1030
CMS-169	II	2-17-99	1246
CMS-170	II	2-17-99	0955
CMS-171	II	2-17-99	1038
CMS-172	II	2-17-99	0915
CMS-173	II	2-17-99	0922
CMS-174	II	2-17-99	0930
CMS-175	II	2-17-99	1000
CMS-176	II	2-17-99	0943
CMS-177	II	2-17-99	0950
CMS-178	II	2-17-99	1650
CMS-178DUP	II	2-17-99	1650
CMS-179	II	2-17-99	1653
CMS-180	II	2-17-99	1655
CMS-181	II	2-17-99	1055
CMS-182	II	2-17-99	1102
CMS-182DUP	II	2-17-99	1102
CMS-183	II	2-17-99	1108
CMS-184	II	2-17-99	1702
CMS-185	II	2-17-99	1701
CMS-186	II	2-17-99	1115
CMS-187	II	2-17-99	1120
CMS-188	II	2-17-99	1255

Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-189	II	2-17-99	1300
CMS-190	II	2-17-99	1313
CMS-191	II	2-17-99	1310
CMS-191DUP	II	2-17-99	1310
CMS-192	II	2-17-99	1302
CMS-193	II	2-17-99	1308
CMS-194	II	2-17-99	1327
CMS-195	II	2-17-99	1325
CMS-196	II	2-17-99	1319
CMS-197	II	2-17-99	1320
CMS-198		(see Table 4)	
CMS-199MS/MSD	II	2-17-99	1331
CMS-200MS/MSD	II	2-17-99	1333
CMS-201	I	2-17-99	1552
CMS-202	II	2-17-99	1341
CMS-203MS/MSD	I	2-17-99	1602
CMS-204	I	2-17-99	1557
CMS-204DUP	I	2-17-99	1557
CMS-205MS/MSD	I	2-17-99	1608
CMS-206	I	2-17-99	1616
CMS-207		(see Table 4)	
CMS-208	I	2-17-99	1623
CMS-209	I	2-17-99	1626
CMS-210MS/MSD	I	2-17-99	1635
CMS-211	I	2-17-99	1640
CMS-212	I	2-17-99	1633

Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
September 1999

Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-213	I	2-17-99	1648
CMS-214MS/MSD	I	2-17-99	1650
CMS-215	I	2-17-99	1652
CMS-216	I	2-16-99	1115
CMS-217	I	2-16-99	1145
CMS-217DUP	I	2-16-99	1145
CMS-218	I	2-16-99	1200
CMS-219	I	2-16-99	1210
CMS-220	I	2-16-99	0937
CMS-221	I	2-16-99	1035
CMS-222	I	2-16-99	1010
CMS-223MS/MSD	I	2-16-99	0950
CMS-224	I	2-16-99	1050
CMS-225	I	2-16-99	1020
CMS-226	II	2-17-99	0716
CMS-227	II	2-17-99	0729
CMS-228	II	2-17-99	0741
CMS-229	II	2-17-99	0755
CMS-230	II	2-17-99	0800
CMS-231	I	2-17-99	1330
CMS-232	I	2-17-99	1340
CMS-233	I	2-17-99	1346
CMS-234	I	2-17-99	1353
CMS-235	I	2-17-99	1359
CMS-236	I	2-17-99	1412
CMS-237	I	2-17-99	1418

**Table 2 (cont'd). Sample Locations and Date of Sampling
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/No.	Sample Team	Collection Date	Collection Time
CMS-238	I	2-17-99	1423
CMS-239	I	2-17-99	1430
CMS-240	I	2-17-99	1440
CMS-241	I	2-17-99	1448
CMS-242	I	2-17-99	1457
Field Blank	II	2-16-99	1620
Field Blank	I	2-17-99	1552
Field Equipment Blank	II	2-16-99	1507
Field Equipment Blank	I	2-17-99	

**Table 3. Phase-One Residential Judgmental Sample Locations
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
September 1999**

Sampling Address	# of Samples Collected	Sample Numbers
550 Woonasquatucket Avenue North Providence, RI 02909	1	CMS-216
494 Woonasquatucket Avenue North Providence, RI 02909	4	CMS-217 CMS-217dup CMS-218 CMS-219
41 Steere Avenue North Providence, RI 02909	1	CMS-220
41 Stevens Street North Providence, RI 02909	1	CMS-221
45 Grover Street North Providence, RI 02909	1	CMS-222
36 Steere Avenue North Providence, RI 02909	1	CMS-223 MS/MSD
15 Centerdale Avenue North Providence, RI 02909	1	CMS-224
Vacant Lot between Redfern St. & Grover St. North Providence, RI 02909	1	CMS-225

Table 4. Sample Location Deviations
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
September 1999

Sample Location/Number	Eliminated	Added	Moved	Comments
CMS-026			✓	Moved from sidewalk, within 0.3 meters.
CMS-028			✓	Moved from mulched area, within 1.6 meters.
CMS-032	✓			Location was in hedgerow, covered with mulch, non-representative.
CMS-036	✓			Location was on rip-rap bank. Sediment nearby, from previous sampling effort was ND.
CMS-037			✓	Moved from sidewalk, within 2.2 meters.
CMS-039	✓			Location was on rip-rap bank. Sediment nearby, from previous sampling effort was ND.
CMS-040	✓			Location was within walls of Brook Village.
CMS-042	✓			Location was on rip-rap bank. Sediment nearby, from previous sampling effort was ND.
CMS-043	✓			Location was within walls of Brook Village.
CMS-045	✓			Location was on rip-rap bank. Sediment nearby, from previous sampling effort was ND.
CMS-046	✓			Location was within walls of Brook Village.
CMS-047			✓	Moved from mulched area to turf, within 3.2 meters
CMS-049	✓			Location was on rip-rap bank. Sediment nearby, from previous sampling effort was ND.
CMS-058			✓	Moved from sidewalk, within 2.5 meters.
CMS-061			✓	Moved from sidewalk, within 1.8 meters.
CMS-072			✓	Moved from pavement, within 1.6 meters.
CMS-077	✓			Location was on pavement.
CMS-083	✓			Location was on pavement.
CMS-084			✓	Moved from pavement, within 1.5 meters.
CMS-089			✓	Location was on pavement and moved 3 meters.
CMS-095			✓	Moved from pavement, within 3.3 meters.
CMS-097	✓			Location was within walls of Centredale Manor.

Table 4 (cont'd). Sample Location Deviations
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/Number	Eliminated	Added	Moved	Comments
CMS-103			✓	Moved from pavement, within 2.5 meters.
CMS-105	✓			Location was within walls of Centredale Manor.
CMS-106	✓			Location was within walls of Centredale Manor.
CMS-111			✓	Moved from pavement, within 1.6 meters.
CMS-112			✓	Moved from Centredale Manor, within 1.6 meters.
CMS-113	✓			Location was on pavement.
CMS-118			✓	Moved from rip-rap, within 1.1 meters.
CMS-119			✓	Moved from Centredale Manor, within 3.4 meters.
CMS-120	✓			Location was on pavement.
CMS-122	✓			Location was in standing water too deep to sample.
CMS-127			✓	Moved from pavement, within 1.3 meters.
CMS-129	✓			Location was in standing water too deep to sample.
CMS-146	✓			Location was on pavement.
CMS-198	✓			Location was off-site on residential property; and property line was within 6.1 meters of another sampling location.
CMS-207	✓			Location was off-site on utility property; and was within 6.1 meters of another sampling location (CMS-024).
CMS-226		✓		Confirmation of previous sampling effort.
CMS-227		✓		Confirmation of previous sampling effort (SS-99-04)
CMS-228		✓		Confirmation of previous sampling effort (SS-01).
CMS-229		✓		Upstream reference sample (depositional sand).
CMS-230		✓		Upstream reference sample (depositional sand).
CMS-231		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-232		✓		Replacement of eliminated sample and confirmation of previous sampling effort.

Table 4 (cont'd). Sample Location Deviations
Centredale Manor (Woonasquatucket River) Site, North Providence, RI
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Sample Location/Number	Eliminated	Added	Moved	Comments
CMS-233		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-234		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-235		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-236		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-237		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-238		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-239		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-240		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-241		✓		Replacement of eliminated sample and confirmation of previous sampling effort.
CMS-242		✓		Replacement of eliminated sample and confirmation of previous sampling effort.