# APPENDIX B

# SEDIMENT PHYSICAL AND CHEMICAL DATA

# TONGUE POINT DREDGE SITE AND

# OCEAN DREDGED MATERIAL DISPOSAL SITE F

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# Abrivations

| | |
|---|---|
| CB | Cathlamet Bay (from USGS, 1984) |
| C | Composit (from from Enviro, 1983) |
| TP | Tongue Point sample |
| LI | Lois Island sample |
| s | Surface sample |
| Vf | Very fine sand |
| TOC | Total Organic Carbon |
| SF | Site F sample |
| mm | millimeter |
| ppm | parts per million |
| ppb | parts per billion |

Appendix B Table B-1.--Tongue Point Sediment Physical Data.

| Sediment Quality - Physical Properties | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Grain Size Mean mm | Grain Size Median mm | Grain Size Distribution Sand % finer | Vf Sand % finer | Silt % finer | Clay % | Oil ppm | Nh4 ppm | TOC mg/g | Volatile Solids % by wgt |
| Tongue Point | CB-6a | 8/1/84 | | | 100.00 | 52.00 | 13.00 | 2.00 | | | 2.20 | |
| Tongue Point | CB-6a | 8/1/84 | | | 98.00 | 56.00 | 35.00 | 8.00 | | | | |
| Tongue Point | CB-6b | 8/1/84 | | | 98.00 | 32.00 | 13.00 | 2.00 | | | 10.60 | |
| Tongue Point | C-1/2 | 6/3/87 | | | 100.00 | 59.10 | 46.00 | 13.10 | 1390.00 | 22.00 | 8.26 | 1.87 |
| Tongue Point | C-3/4/5 | 6/3/87 | | | 100.00 | 81.13 | 58.33 | 12.80 | 1480.00 | 20.80 | 11.10 | 3.30 |
| Tongue Point | C-6/7 | 6/3/87 | | | 100.00 | 100.00 | 64.50 | 15.30 | 1365.00 | 17.80 | 11.05 | 1.58 |
| Tongue Point | C-3/4/5 | 8/23/88 | | | 100.00 | 80.14 | 58.00 | 12.87 | 53.00 | 105.00 | 0.93 | |
| Tongue Point | C-6/7 | 8/23/88 | | | 100.00 | 70.78 | 50.23 | 10.56 | 58.00 | 131.00 | 0.80 | |
| Tongue Point | TP-9 | 9/13/88 | 0.050 | 0.158 | 91.40 | 32.00 | 6.20 | 3.00 | | | 1.00 | 1.10 |
| Tongue Point | TP-10 | 9/13/88 | 0.148 | 0.149 | 95.30 | 37.60 | 6.90 | 1.00 | | | 1.40 | 1.40 |
| Tongue Point | TP-11 | 9/13/88 | 0.157 | 0.044 | 99.70 | 97.70 | 71.70 | 1.00 | | | 4.60 | 1.10 |
| Tongue Point | TP-12 | 9/13/88 | 0.045 | 0.029 | 99.80 | 99.50 | 96.10 | 4.00 | | | 5.80 | 4.00 |
| Tongue Point | LI-1/2 | 7/25/89 | 0.049 | 0.017 | 99.80 | 99.35 | 91.90 | 12.85 | 359.00 | | 1.23 | 8.20 |
| Tongue Point | LI-3/4 | 7/25/89 | 0.049 | 0.045 | 99.80 | 92.90 | 65.90 | 9.05 | <10.00 | | 0.89 | 4.15 |
| Tongue Point | LI-1/2 | 12/18/89 | 0.029 | 0.024 | 99.75 | 99.50 | 88.90 | 7.90 | 298.00 | | 0.96 | 3.70 |
| Tongue Point | LI-3/4 | 12/18/89 | 0.000 | 0.011 | 99.40 | 99.00 | 97.45 | 19.45 | 649.00 | | 2.41 | 9.25 |
| Tongue Point | TP-1/2 | 12/18/89 | 0.081 | 0.058 | 99.45 | 90.55 | 54.55 | 7.65 | 145.00 | | 0.63 | 2.60 |
| Tongue Point | TP-3 | 12/18/89 | 0.108 | 0.100 | 98.40 | 60.00 | 27.30 | 5.10 | 305.00 | | 1.05 | 2.60 |
| Tongue Point | TP-4 | 12/18/89 | 0.073 | 0.087 | 97.60 | 81.70 | 47.20 | 6.90 | 163.00 | | 0.55 | 2.60 |
| Tongue Point | TP-5 | 12/18/89 | 0.040 | 0.029 | 99.60 | 95.20 | 75.60 | 12.20 | 551.00 | | 1.53 | 3.90 |
| Tongue Point | TP-6/7 | 12/18/89 | 0.080 | 0.070 | 97.15 | 75.60 | 48.80 | 6.85 | 214.00 | | 0.52 | 2.70 |
| Tongue Point | TP-8 | 12/18/89 | 0.032 | 0.024 | 99.60 | 98.30 | 83.00 | 14.50 | 628.00 | | 1.95 | 6.10 |
| Tongue Point | TP-9 | 12/18/89 | 0.122 | 0.110 | 96.80 | 60.30 | 10.70 | 0.00 | 216.00 | | 0.76 | 1.10 |
| Tongue Point | TP-10 | 12/18/89 | 0.173 | 0.170 | 93.80 | 15.40 | 2.00 | 0.00 | 41.00 | | 0.17 | 0.90 |
| Tongue Point | TP-11 | 12/18/89 | 0.047 | 0.041 | 99.70 | 99.60 | 74.30 | 3.80 | 128.00 | | 0.58 | 2.10 |
| Tongue Point | TP-12 | 12/18/89 | 0.045 | 0.038 | 99.40 | 96.90 | 72.70 | 4.80 | 272.00 | | 0.77 | 2.40 |
| Tongue Point | TP-S-1/2 | 8/14/90 | 0.048 | 0.044 | 99.70 | 98.20 | 63.30 | 8.30 | | | | 3.70 |
| Tongue Point | TP-S-2 | 8/14/90 | 0.073 | 0.072 | 99.50 | 84.10 | 41.50 | 7.60 | | | | 1.90 |
| Tongue Point | TP-S-3 | 8/14/90 | 0.147 | 0.140 | 88.30 | 42.80 | 15.20 | 2.60 | | | | 1.50 |
| Tongue Point | TP-S-4 | 8/14/90 | 0.051 | 0.036 | 97.70 | 89.90 | 67.80 | 9.30 | | | | 5.30 |
| Tongue Point | TP-S-5 | 8/14/90 | 0.074 | 0.065 | 98.50 | 87.90 | 46.60 | 1.90 | | | | 2.70 |
| Tongue Point | TP-S-6 | 8/14/90 | 0.084 | 0.059 | 98.10 | 90.30 | 53.30 | 3.10 | | | | 5.60 |
| Tongue Point | TP-S-8 | 8/14/90 | 0.058 | 0.064 | 99.50 | 89.00 | 48.90 | 1.90 | | | | 2.60 |

Appendix B Table B-2.--Tongue Point Sediment Metals Data.

| Sediment Quality - Metals (ppm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Iron | Manganese | Arsnic | Chromium | Copper | Lead | Mercury | Nickel | Zinc | Cadmium |
| Tongue Point | CB-6a | 8/1/84 | 6000.00 | 180.00 | | 4.00 | 10.00 | 12.00 | <0.100 | 5.00 | 55.00 | 0.60 |
| Tongue Point | CB-6a | 8/1/84 | 9000.00 | 310.00 | | 3.00 | 16.00 | 5.00 | <0.100 | 6.00 | 23.00 | 0.20 |
| Tongue Point | C-1/2 | 6/3/87 | | | <1.00 | 12.30 | 16.20 | 8.53 | 0.090 | | 61.10 | 0.480 |
| Tongue Point | C-3/4/5 | 6/3/87 | | | <1.00 | 15.90 | 22.20 | 16.70 | 0.180 | | 111.00 | 0.870 |
| Tongue Point | C-6/7 | 6/3/87 | | | <1.00 | 15.00 | 20.85 | 15.05 | 0.090 | | 109.50 | 0.770 |
| Tongue Point | C-3/4/5 | 8/23/88 | | | 5.18 | 22.80 | 35.10 | 20.53 | 0.160 | 22.40 | 161.80 | 1.210 |
| Tongue Point | C-6/7 | 8/23/88 | | | 5.43 | 25.00 | 30.80 | 18.23 | 0.140 | 23.00 | 134.00 | 1.160 |
| Tongue Point | TP-9 | 9/13/88 | 12700.00 | 319.00 | 4.27 | 12.80 | 8.86 | 9.61 | 0.020 | 6.64 | 52.70 | 0.120 |
| Tongue Point | TP-10 | 9/13/88 | 14000.00 | 373.00 | 5.88 | 13.60 | 8.86 | 9.47 | 0.020 | 6.11 | 54.20 | 0.130 |
| Tongue Point | TP-11 | 9/13/88 | 17300.00 | 430.00 | 6.45 | 16.40 | 19.40 | 24.40 | 0.040 | 8.87 | 87.50 | 0.210 |
| Tongue Point | TP-12 | 9/13/88 | 20000.00 | 307.00 | 6.10 | 18.90 | 21.20 | 13.20 | 0.050 | 9.92 | 91.90 | 0.290 |
| Tongue Point | LI-1/2 | 7/25/89 | | | 16.00 | 26.00 | 39.00 | 13.10 | 0.110 | | 133.00 | 0.620 |
| Tongue Point | LI-3/4 | 7/25/89 | | | 8.00 | 20.00 | 23.00 | 9.90 | 0.060 | | 93.00 | 0.620 |
| Tongue Point | LI-1/2 | 12/18/89 | | | 10.50 | 23.00 | 29.00 | 12.00 | <0.080 | | 104.00 | 0.670 |
| Tongue Point | LI-3/4 | 12/18/89 | | | 12.80 | 34.00 | 52.00 | 26.00 | 0.120 | | 157.00 | 1.200 |
| Tongue Point | TP-1/2 | 12/18/89 | | | 4.50 | 16.00 | 14.00 | 6.50 | <0.030 | | 63.00 | 0.250 |
| Tongue Point | TP-3 | 12/18/89 | | | 5.30 | 16.00 | 16.00 | 5.90 | <0.040 | | 57.00 | 0.240 |
| Tongue Point | TP-4 | 12/18/89 | | | 7.20 | 18.00 | 18.00 | 7.80 | <0.040 | | 70.00 | 0.400 |
| Tongue Point | TP-5 | 12/18/89 | | | 10.60 | 26.00 | 37.00 | 14.00 | 0.100 | | 122.00 | 1.040 |
| Tongue Point | TP-6/7 | 12/18/89 | | | 6.00 | 16.00 | 18.00 | 7.50 | <0.060 | | 67.00 | 0.520 |
| Tongue Point | TP-8 | 12/18/89 | | | 12.80 | 27.00 | 37.00 | 14.00 | <0.110 | | 128.00 | 0.850 |
| Tongue Point | TP-9 | 12/18/89 | | | 6.30 | 14.00 | 15.00 | 6.30 | <0.030 | | 64.00 | 0.360 |
| Tongue Point | TP-10 | 12/18/89 | | | 5.80 | 13.00 | 7.60 | 5.30 | <0.020 | | 52.00 | 0.240 |
| Tongue Point | TP-11 | 12/18/89 | | | 8.80 | 18.00 | 18.00 | 11.00 | <0.050 | | 87.00 | 0.440 |
| Tongue Point | TP-12-R1 | 12/18/89 | | | 11.60 | 19.00 | 17.00 | 12.00 | <0.050 | | 83.00 | 0.460 |
| Tongue Point | TP-12-R2 | 12/18/89 | | | 9.30 | 19.00 | 17.00 | 9.50 | <0.050 | | 81.00 | 0.480 |
| Tongue Point | TP-S-1/2 | 8/14/90 | | | 2.00 | 13.00 | 2.40 | 6.00 | 0.024 | 9.50 | 52.00 | 0.260 |
| Tongue Point | TP-S-3 | 8/14/90 | | | 2.90 | 18.00 | 8.00 | 3.70 | 0.017 | 13.00 | 46.00 | 0.120 |
| Tongue Point | TP-S-4 | 8/14/90 | | | 2.70 | 14.00 | 9.20 | 3.10 | 0.064 | 10.00 | 72.00 | 0.440 |
| Tongue Point | TP-S-5 | 8/14/90 | | | 2.20 | 15.00 | 6.50 | 4.10 | 0.022 | 12.00 | 42.00 | 0.280 |
| Tongue Point | TP-S-6 | 8/14/90 | | | 3.20 | 33.00 | 17.00 | 3.70 | 0.038 | 27.00 | 47.00 | 0.310 |
| Tongue Point | TP-S-8 | 8/14/90 | | | 3.20 | 13.00 | 11.00 | 3.70 | 0.065 | 9.50 | 64.00 | 0.000 |

Appendix B Table B-3.--Tongue Point Sediment Pesticides/PCB Data.

| Sediment Quality - Pesticides/PCBs (ppb) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Aldrin | Chlordane | Dieldrin | DDD | DDE | DDT | Endosulfan | Endrin | Heptachlor | Lindane | Metoxychlor | Toxaphene | PCBs |
| Tongue Point | CB-6a | 8/1/84 | <0.01 | <1.00 | <0.01 | **1.30** | **0.40** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <10.00 | 2.00 |
| Tongue Point | CB-6a | 8/1/84 | **0.10** | <1.00 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <10.00 | <1.0 |
| Tongue Point | CB-6b | 8/1/84 | <0.01 | <1.00 | <0.01 | **8.90** | **0.90** | **0.20** | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <10.00 | 15.00 |
| Tongue Point | C-1/2 | 6/3/87 | <15.00 | <20.00 | <15.00 | <10.00 | <15.00 | <10.00 | <15.00 | <5.00 | <20.00 | <15.00 | | <500.00 | <500.00 |
| Tongue Point | C-3/4/5 | 6/3/87 | <15.00 | <20.00 | <15.00 | <10.00 | <15.00 | <10.00 | <15.00 | <5.00 | <20.00 | <15.00 | | <500.00 | <500.00 |
| Tongue Point | C-6/7 | 6/3/87 | <15.00 | <20.00 | <15.00 | <10.00 | <15.00 | <10.00 | <15.00 | <5.00 | <20.00 | <15.00 | | <500.00 | <500.00 |
| Tongue Point | C-3/4/5 | 8/23/88 | <2.00 | <20.00 | <4.00 | **2.40** | <4.00 | <4.00 | <6.00 | <4.00 | <2.00 | <2.00 | <8.00 | <200.00 | <40.00 |
| Tongue Point | C-6/7 | 8/23/88 | <2.00 | <20.00 | <4.00 | **1.90** | <4.00 | <4.00 | <6.00 | <4.00 | <2.00 | <2.00 | <8.00 | <200.00 | <40.00 |
| Tongue Point | TP-9 | 9/13/88 | <5.00 | <20.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <50.00 | <40.00 |
| Tongue Point | TP-10 | 9/13/88 | <5.00 | <20.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <50.00 | <40.00 |
| Tongue Point | TP-11 | 9/13/88 | <5.00 | <20.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <50.00 | <40.00 |
| Tongue Point | TP-12 | 9/13/88 | <5.00 | <20.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <50.00 | <40.00 |
| Tongue Point | LI-1/2 | 7/25/89 | <2.00 | <2.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | <2.00 | <8.00 | <300.00 | <40.00 |
| Tongue Point | LI-3/4 | 7/25/89 | <2.00 | <2.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | <4.00 | <2.00 | <2.00 | <8.00 | <300.00 | <40.00 |
| Tongue Point | LI-1/2 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <6.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | LI-3/4 | 12/18/89 | <6.00 | <10.00 | <12.00 | <12.00 | <12.00 | <12.00 | <6.00 | <12.00 | <6.00 | <6.00 | <24.00 | <900.00 | <120.00 |
| Tongue Point | TP-1/2 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <6.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-3 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-4 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-5 | 12/18/89 | <3.00 | <5.0 | <3.00 | **3.00** | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-6/7 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-8 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-9-R1 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-9-R2 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-10 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-11 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-12 | 12/18/89 | <3.00 | <5.0 | <3.00 | <6.00 | <6.00 | <6.00 | <3.00 | <6.00 | <3.00 | <3.00 | <12.00 | <450.00 | <60.00 |
| Tongue Point | TP-S-1/2 | 8/14/90 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <5.50 | <27.40 | <27.00 |
| Tongue Point | TP-S-3 | 8/14/90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <7.80 | <28.60 | <29.00 |
| Tongue Point | TP-S-4 | 8/14/90 | <3.40 | <3.40 | <3.40 | <3.40 | <3.40 | <3.40 | <3.40 | <3.40 | <3.40 | 3.40 | 4.70 | <33.80 | <34.00 |
| Tongue Point | TP-S-5 | 8/14/90 | <2.80 | <2.80 | <2.80 | <2.80 | <2.80 | <2.80 | <2.80 | <2.80 | <2.80 | <2.80 | <5.70 | <28.40 | <28.00 |
| Tongue Point | TP-S-6 | 8/14/90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <2.90 | <5.80 | <29.20 | <29.00 |
| Tongue Point | TP-S-8 | 8/14/90 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <6.50 | <20.00 | <33.00 |

Appendix B Table B-4.--Tongue Point Sediment PAH Data.

| Sediment Quality - PAHs (ppb) | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Ace-naphthene | Ace-napthylene | Anthracene | Fluorene | Napthalene | Phen anthrene | Total LPAHs | Benzo(a) anthracene | Benzo(b,k) floranthenes | Benzo perylene | Benzo(a) pyrene | Chrysene | Dibenzo(a,h) enthracene | Indeno pyrene | Fluor-anthene | Pyrene | Total HPAHs |
| Tongue Point | CB-6b | 8/1/84 | <7.0 | <6.0 | <20.0 | <6.0 | 8.0 | 72.0 | 80.0 | 159.0 | 261.0 | 173.0 | 223.0 | 76.0 | <200.0 | <132.0 | 278.0 | 260.0 | 1430.0 |
| Tongue Point | C-1/2 | 6/3/87 | <200.0 | <200.0 | <1000.0 | <200.0 | <200.0 | <200.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <200.0 | <200.0 | <1000.0 |
| Tongue Point | C-3/4/5 | 6/3/87 | <200.0 | <200.0 | <1000.0 | <200.0 | <200.0 | <200.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <200.0 | <200.0 | <1000.0 |
| Tongue Point | C-6/7 | 6/3/87 | <200.0 | <200.0 | <1000.0 | <200.0 | <200.0 | <200.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <1000.0 | <200.0 | <200.0 | <1000.0 |
| Tongue Point | C-3/4/5 | 8/23/88 | <60.0 | <60.0 | <60.0 | <60.0 | <60.0 | 48.0 | 48.0 | 62.0 | 140.0 | 140.0 | 95.0 | 97.0 | <60.0 | 110.0 | 93.0 | 150.0 | 983.0 |
| Tongue Point | C-6/7 | 8/23/88 | <57.0 | <57.0 | <57.0 | <57.0 | <57.0 | 55.0 | 55.0 | 68.0 | 160.0 | 180.0 | 66.0 | 110.0 | <57.0 | 160.0 | 110.0 | 150.0 | 1114.0 |
| Tongue Point | LI-1/2 | 7/25/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | <130.0 |
| Tongue Point | LI-3/4 | 7/25/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | 15.0 | 15.0 | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | 42.0 | 42.0 |
| Tongue Point | LI-1/2 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | LI-3/4 | 12/18/89 | <150.0 | <150.0 | <150.0 | <150.0 | <150.0 | <150.0 | <150.0 | <220.0 | <200.0 | <600.0 | <400.0 | <150.0 | <600.0 | <600.0 | <150.0 | <150.0 | <600.0 |
| Tongue Point | TP-1/2 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-3 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-4 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-5 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-6/7 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-8 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-9 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-10 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-11 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-12 | 12/18/89 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <75.0 | <100.0 | <300.0 | <200.0 | <75.0 | <300.0 | <300.0 | <75.0 | <75.0 | <300.0 |
| Tongue Point | TP-S-1/2 | 8/14/90 | <1.1 | <0.4 | 0.7 | <0.9 | <2.9 | 3.5 | 4.2 | 6.0 | 9.9 | 5.3 | 3.6 | 8.6 | 0.7 | 3.3 | 5.2 | 4.8 | 47.4 |
| Tongue Point | TP-S-3 | 8/14/90 | <1.1 | <0.4 | <0.5 | <0.9 | <3.0 | <1.2 | <3.0 | 1.7 | 2.3 | 1.7 | 0.9 | 2.1 | <0.4 | 1.1 | 1.9 | 2.3 | 14.0 |
| Tongue Point | TP-S-4 | 8/14/90 | 1.9 | 1.7 | 3.4 | 3.9 | <3.5 | 21.6 | 32.5 | 28.9 | 67.9 | 40.6 | 32.1 | 49.2 | 4.4 | 22.6 | 47.8 | 52.6 | 346.1 |
| Tongue Point | TP-S-5 | 8/14/90 | <1.1 | <0.5 | 0.7 | <0.9 | <3.0 | 4.4 | 5.1 | 6.5 | 14.3 | 14.1 | 8.5 | 9.2 | 1.3 | 6.8 | 12.8 | 17.2 | 90.7 |
| Tongue Point | TP-S-6 | 8/14/90 | 1.8 | 1.5 | 1.6 | 2.8 | 5.7 | 10.8 | 24.2 | 26.3 | 44.1 | 20.4 | 21.5 | 28.6 | 2.8 | 11.0 | 27.2 | 28.5 | 211.4 |
| Tongue Point | TP-S-8 | 8/14/90 | 9.8 | 2.8 | 5.5 | 10.4 | 8.8 | 35.2 | 72.5 | 37.2 | 83.1 | 54.3 | 41.1 | 59.0 | 5.4 | 31.6 | 68.0 | 69.8 | 449.5 |
| Tongue Point | TP-S-8R | 8/14/90 | 4.2 | 1.6 | 4.5 | 5.7 | 5.9 | 27.4 | 49.3 | 20.9 | 42.7 | 35.4 | 22.5 | 27.4 | 3.1 | 19.6 | 43.2 | 47.6 | 263.4 |

Appendix B Table B-5.--Loran-C navigation readings (in Latitude and Longitude) for sampling stations at and adjacent to ODMDS F, off the mouth of the Columbia River.

ODMDS F Sampling Stations[a]

| Station # | North | West | Depth ft (m) | Remarks |
|---|---|---|---|---|
| SF-G1[b] | 46° 13' 02" N | 124° 09' 00" W | 96 (29.2) | |
| SF-F2 | 46° 12' 37" N | 124° 09' 00" W | 114 (34.7) | |
| SF-D1 | 46° 12' 31" N | 124° 09' 31" W | 138 (42.1) | |
| SF-G4 | 46° 12' 31" N | 124° 08' 29" W | 105 (32.0) | |
| SF-E2 | 46° 12' 25" N | 124° 09' 18" W | 126 (38.4) | |
| SF-F3 | 46° 12' 25" N | 124° 08 42" W | 114 (34.7) | |
| SF-C2 | 46° 12' 12" N | 124° 09' 25" W | 138 (42.1) | |
| SF-E3 | 46° 12' 12" N | 124° 09' 00" W | 126 (38.4) | N corner ODMDS F |
| SF-F5 | 46° 12' 12" N | 124° 08' 35" W | 114 (34.7) | |
| SF-D3 | 46° 12' 06" N | 124° 09' 12" W | 132 (40.2) | |
| SF-E4 | 46° 12' 06" N | 124° 08' 48" W | 126 (38.4) | |
| SF-A1 | 46° 12' 00" N | 124° 10' 08" W | 168 (51.2) | |
| SF-B2 | 46° 12' 00" N | 124° 09' 43" W | 153 (46.6) | |
| SF-C3 | 46° 12' 00" N | 124° 09' 18" W | 138 (42.1) | W corner ODMDS F |
| SF-D4 | 46° 12' 00" N | 124° 09' 00" W | 132 (40.2) | Center-ODMDS F |
| SF-E5 | 46° 12' 00" N | 124° 08' 42" W | 126 (38.4) | E corner ODMDS F |
| SF-F6 | 46° 12' 00" N | 124° 08' 17" W | 114 (34.7) | |
| SF-G7 | 46° 12' 00" N | 124° 07 52" W | 102 (31.1) | |
| SF-C4 | 46° 11' 54" N | 124° 09' 12" W | 138 (42.1) | |
| SF-D5 | 46° 11' 54" N | 124° 08' 48" W | 132 (40.2) | |
| SF-B3 | 46° 11' 48" N | 124° 09' 25" W | 150 (44.8) | |
| SF-C5 | 46° 11' 48" N | 124° 09' 00" W | 138 (42.1) | S corner ODMDS F |
| SF-E6 | 46° 11' 48" N | 124° 08' 35" W | 126 (38.4) | |
| SF-B5 | 46° 11' 35" N | 124° 09' 18" W | 150 (44.8) | |
| SF-C6 | 46° 11' 35" N | 124° 08' 42" W | 132 (40.2) | |
| SF-A4 | 46° 11' 29" N | 124° 09' 31" W | 162 (49.4) | |
| SF-D7 | 46° 11' 29" N | 124° 08' 29" W | 129 (39.2) | |
| SF-B6 | 46° 11' 23" N | 124° 09' 06" W | 150 (44.8) | |
| SF-A7 | 46° 10' 58" N | 124° 09' 00" W | 156 (47.5) | |

[a]Station locations were the same for all years.
[b]Main text and all drawings do not list the "SF" prefix.

Appendix B Table B-6.--ODMDS F Sediment Physical Data.

| Sediment Quality - Physical Properties July 10, 1989 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Grain Size Mean mm | Grain Size Median mm | Grain Size Distribution Sand % finer | Vf Sand % finer | Silt % finer | Clay % | Oil ppm | TOC mg/g | Volatile Solids % by wgt |
| ODMDS F | SF-A1 | 07/10/89 | 0.170 | 0.170 | 97.40 | 16.30 | 1.60 | 0.00 | | | 0.90 |
| ODMDS F | SF-A4 | 07/10/89 | 0.170 | 0.170 | 96.40 | 16.60 | 2.10 | 0.00 | | | 1.00 |
| ODMDS F | SF-A7 | 07/10/89 | 0.160 | 0.160 | 98.30 | 22.50 | 0.40 | 0.00 | | | 0.80 |
| ODMDS F | SF-B2 | 07/10/89 | 0.158 | 0.160 | 98.10 | 25.00 | 1.20 | 0.00 | 72.00 | 0.06 | 0.60 |
| ODMDS F | SF-B3 | 07/10/89 | 0.157 | 0.150 | 98.40 | 27.10 | 0.80 | 0.00 | | | 0.60 |
| ODMDS F | SF-B5 | 07/10/89 | 0.145 | 0.140 | 97.90 | 40.30 | 0.70 | 0.00 | | | 0.60 |
| ODMDS F | SF-B6 | 07/10/89 | 0.146 | 0.140 | 98.10 | 36.10 | 0.50 | 0.00 | 40.00 | 0.08 | 0.60 |
| ODMDS F | SF-C2 | 07/10/89 | 0.117 | 0.100 | 96.20 | 66.10 | 1.50 | 0.00 | | | 0.50 |
| ODMDS F | SF-C3 | 07/10/89 | 0.154 | 0.150 | 96.90 | 34.10 | 1.10 | 0.00 | | | 0.50 |
| ODMDS F | SF-C4 | 07/10/89 | 0.160 | 0.160 | 97.50 | 26.30 | 0.50 | 0.00 | | | 0.60 |
| ODMDS F | SF-C5 | 07/10/89 | 0.150 | 0.150 | 98.10 | 34.20 | 0.60 | 0.00 | 22.00 | 0.07 | 0.50 |
| ODMDS F | SF-C6 | 07/10/89 | 0.146 | 0.140 | 98.40 | 37.10 | 0.50 | 0.00 | | | 0.60 |
| ODMDS F | SF-D1 | 07/10/89 | 0.183 | 0.180 | 86.30 | 15.30 | 0.90 | 0.00 | | | 0.80 |
| ODMDS F | SF-D3 | 07/10/89 | 0.155 | 0.150 | 97.70 | 31.10 | 1.00 | 0.00 | | | 0.70 |
| ODMDS F | SF-D4 | 07/10/89 | 0.160 | 0.160 | 97.00 | 26.50 | 0.80 | 0.00 | 61.00 | 0.12 | 0.50 |
| ODMDS F | SF-D5 | 07/10/89 | 0.160 | 0.160 | 96.80 | 24.60 | 0.70 | 0.50 | | | 0.50 |
| ODMDS F | SF-D7 | 07/10/89 | 0.146 | 0.140 | 98.50 | 37.10 | 0.60 | 0.00 | | | 0.50 |
| ODMDS F | SF-E2 | 07/10/89 | 0.173 | 0.170 | 90.00 | 17.90 | 1.90 | 0.00 | | | 0.80 |
| ODMDS F | SF-E3 | 07/10/89 | 0.153 | 0.150 | 96.60 | 34.40 | 0.70 | 0.00 | 38.00 | 0.07 | 0.60 |
| ODMDS F | SF-E4 | 07/10/89 | 0.156 | 0.150 | 95.90 | 28.60 | 0.70 | 0.00 | | | 0.60 |
| ODMDS F | SF-E5 | 07/10/89 | 0.153 | 0.150 | 95.60 | 34.40 | 0.90 | 0.00 | | | 0.60 |
| ODMDS F | SF-E6 | 07/10/89 | 0.154 | 0.150 | 97.30 | 32.80 | 0.60 | 0.00 | | | 0.60 |
| ODMDS F | SF-F2 | 07/10/89 | 0.173 | 0.170 | 87.00 | 18.40 | 1.90 | 0.00 | 17.00 | 0.07 | 0.60 |
| ODMDS F | SF-F3 | 07/10/89 | 0.173 | 0.170 | 88.10 | 17.40 | 0.60 | 0.00 | | | 0.60 |
| ODMDS F | SF-F5 | 07/10/89 | 0.157 | 0.150 | 93.10 | 33.40 | 0.70 | 0.00 | | | 0.50 |
| ODMDS F | SF-F6 | 07/10/89 | 0.154 | 0.150 | 96.50 | 33.40 | 0.60 | 0.00 | <6.00 | 0.21 | 0.30 |
| ODMDS F | SF-G1 | | | | | | | | | | |
| ODMDS F | SF-G4 | 07/10/89 | 0.167 | 0.160 | 88.90 | 26.90 | 0.70 | 0.00 | | | 0.60 |
| ODMDS F | SF-G7 | 07/10/89 | 0.154 | 0.150 | 96.40 | 33.60 | 0.70 | 0.00 | | | 0.60 |

Appendix B Table B-6.--Continued.

| Sediment Quality - Physical Properties March 1, 1990 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Grain Size Mean mm | Grain Size Median mm | Grain Size Distribution Sand % finer | Vf Sand % finer | Silt % finer | Clay % | Oil ppm | TOC mg/g | Volatile Solids % by wgt |
| ODMDS F | SF-A1 | 03/01/90 | 0.159 | 0.160 | 97.40 | 23.40 | 1.70 | 0.00 | | | 0.90 |
| ODMDS F | SF-A4 | 03/01/90 | 0.160 | 0.160 | 98.00 | 18.30 | 0.60 | 0.00 | | 0.07 | 0.70 |
| ODMDS F | SF-A7 | 03/01/90 | 0.160 | 0.160 | 96.70 | 20.80 | 0.60 | 0.00 | | | 0.80 |
| ODMDS F | SF-B2 | 03/01/90 | | 0.110 | 97.50 | 54.30 | 26.00 | 0.00 | | 0.29 | 1.90 |
| ODMDS F | SF-B3 | 03/01/90 | 0.170 | 0.170 | 95.90 | 15.80 | 0.30 | 0.00 | | | 0.60 |
| ODMDS F | SF-B5 | 03/01/90 | 0.156 | 0.160 | 97.80 | 26.40 | 3.10 | 0.00 | | | 1.10 |
| ODMDS F | SF-B6 | 03/01/90 | 0.160 | 0.160 | 98.60 | 23.70 | 0.60 | 0.00 | | 0.07 | 0.70 |
| ODMDS F | SF-C2 | 03/01/90 | 0.090 | 0.081 | 96.20 | 72.60 | 38.60 | 6.60 | | | 2.20 |
| ODMDS F | SF-C3 | 03/01/90 | 0.063 | 0.049 | 99.90 | 82.70 | 55.00 | 8.60 | | 1.03 | 3.00 |
| ODMDS F | SF-C4 | 03/01/90 | | 0.110 | 94.60 | 54.80 | 31.70 | 0.00 | | | 2.30 |
| ODMDS F | SF-C5 | 03/01/90 | | 0.099 | 91.90 | 59.40 | 33.80 | 0.00 | | 0.38 | 2.10 |
| ODMDS F | SF-C6 | 03/01/90 | 0.154 | 0.150 | 96.10 | 32.70 | 0.40 | 0.00 | | | 0.50 |
| ODMDS F | SF-D1 | 03/01/90 | 0.148 | 0.140 | 93.30 | 38.40 | 2.80 | 0.00 | | 0.04 | 0.60 |
| ODMDS F | SF-D3 | 03/01/90 | 0.050 | 0.025 | 97.50 | 86.90 | 68.70 | 12.90 | | | 4.50 |
| ODMDS F | SF-D4 | 03/01/90 | | 0.091 | 98.40 | 63.60 | 35.50 | 0.00 | | 0.71 | 2.30 |
| ODMDS F | SF-D5 | 03/01/90 | 0.154 | 0.150 | 97.10 | 33.60 | 0.70 | 0.00 | | | 0.50 |
| ODMDS F | SF-D7 | 03/01/90 | 0.146 | 0.140 | 97.90 | 36.60 | 0.50 | 0.00 | | 0.05 | 0.50 |
| ODMDS F | SF-E2 | 03/01/90 | 0.094 | 0.083 | 94.90 | 67.40 | 41.20 | 7.60 | | | 6.90 |
| ODMDS F | SF-E3 | 03/01/90 | 0.080 | 0.087 | 98.20 | 73.60 | 50.10 | 10.20 | | 0.63 | 3.30 |
| ODMDS F | SF-E4 | 03/01/90 | | 0.130 | 95.20 | 46.40 | 16.50 | 0.00 | | | 1.50 |
| ODMDS F | SF-E5 | 03/01/90 | 0.145 | 0.140 | 96.50 | 39.30 | 0.80 | 0.00 | | 0.04 | 0.60 |
| ODMDS F | SF-E6 | 03/01/90 | 0.146 | 0.140 | 97.50 | 35.90 | 0.60 | 0.00 | | | 1.40 |
| ODMDS F | SF-F2 | 03/01/90 | 0.145 | 0.140 | 92.30 | 40.50 | 9.00 | 0.00 | | 0.08 | 1.10 |
| ODMDS F | SF-F3 | 03/01/90 | | 0.091 | 94.30 | 65.20 | 30.50 | 0.00 | | | 0.50 |
| ODMDS F | SF-F5 | 03/01/90 | 0.163 | 0.160 | 92.40 | 20.80 | 0.50 | 0.00 | | | 0.70 |
| ODMDS F | SF-F6 | 03/01/90 | 0.158 | 0.150 | 92.80 | 30.60 | 0.80 | 0.00 | | 0.04 | 0.30 |
| ODMDS F | SF-G1 | 03/01/90 | 0.200 | 0.190 | 79.40 | 11.50 | 1.10 | 0.00 | | | 0.70 |
| ODMDS F | SF-G4 | 03/01/90 | 0.177 | 0.170 | 89.00 | 15.10 | 0.40 | 0.00 | | 0.04 | 0.80 |
| ODMDS F | SF-G7 | 03/01/90 | 0.160 | 0.160 | 94.60 | 25.50 | 0.30 | 0.00 | | | 0.60 |

Appendix B Table B-6.--Continued.

| Sediment Quality - Physical Properties June 27, 1990 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Grain Size Mean mm | Grain Size Median mm | Grain Size Distribution Sand % finer | Vf Sand % finer | Silt % finer | Clay % | Oil ppm | TOC mg/g | Volatile Solids % by wgt |
| ODMDS F | SF-A1 | 06/27/90 | 0.160 | 0.160 | 97.90 | 17.50 | 0.90 | 0.00 | | | 1.00 |
| ODMDS F | SF-A4 | 06/27/90 | 0.160 | 0.160 | 97.40 | 26.80 | 2.50 | 0.00 | | 0.16 | 1.00 |
| ODMDS F | SF-A7 | 06/27/90 | 0.160 | 0.160 | 97.80 | 24.60 | 0.40 | 0.00 | | | 0.80 |
| ODMDS F | SF-B2 | 06/27/90 | 0.170 | 0.160 | 91.60 | 24.70 | 1.30 | 0.00 | | 0.06 | 0.70 |
| ODMDS F | SF-B3 | 06/27/90 | 0.160 | 0.160 | 97.70 | 25.20 | 0.60 | 0.00 | | | 0.80 |
| ODMDS F | SF-B5 | 06/27/90 | 0.150 | 0.150 | 97.20 | 33.00 | 0.60 | 0.00 | | | 0.80 |
| ODMDS F | SF-B6 | 06/27/90 | 0.150 | 0.150 | 97.80 | 34.70 | 0.40 | 0.00 | | 0.04 | 0.90 |
| ODMDS F | SF-C2 | 06/27/90 | 0.127 | 0.130 | 91.60 | 50.00 | 27.50 | 3.10 | | | 1.70 |
| ODMDS F | SF-C3 | 06/27/90 | 0.102 | 0.083 | 96.20 | 66.60 | 38.00 | 2.90 | | 0.51 | 2.60 |
| ODMDS F | SF-C4 | 06/27/90 | 0.156 | 0.150 | 95.60 | 30.10 | 1.10 | 0.00 | | | 0.80 |
| ODMDS F | SF-C5 | 06/27/90 | 0.111 | 0.100 | 96.10 | 58.70 | 32.90 | 3.90 | | 0.26 | 1.90 |
| ODMDS F | SF-C6 | 06/27/90 | 0.146 | 0.140 | 97.90 | 35.90 | 0.60 | 0.00 | | | 0.70 |
| ODMDS F | SF-D1 | 06/27/90 | 0.173 | 0.170 | 86.60 | 21.60 | 1.30 | 0.00 | | 0.03 | 0.70 |
| ODMDS F | SF-D3 | 06/27/90 | 0.170 | 0.170 | 89.80 | 21.10 | 1.10 | 0.00 | | | 1.00 |
| ODMDS F | SF-D4 | 06/27/90 | 0.153 | 0.150 | 93.50 | 34.50 | 3.00 | 0.00 | | 0.10 | 1.10 |
| ODMDS F | SF-D5 | 06/27/90 | 0.145 | 0.140 | 96.80 | 37.60 | 0.70 | 0.00 | | | 0.60 |
| ODMDS F | SF-D7 | 06/27/90 | 0.146 | 0.140 | 97.40 | 37.60 | 0.40 | 0.00 | | 0.03 | 0.50 |
| ODMDS F | SF-E2 | 06/27/90 | 0.101 | 0.088 | 96.90 | 70.60 | 30.00 | 1.40 | | | 1.90 |
| ODMDS F | SF-E3 | 06/27/90 | 0.084 | 0.067 | 97.70 | 76.30 | 46.80 | 2.70 | | 0.52 | 2.70 |
| ODMDS F | SF-E4 | 06/27/90 | 0.127 | 0.120 | 97.10 | 54.50 | 16.10 | 1.20 | | | 1.10 |
| ODMDS F | SF-E5 | 06/27/90 | 0.148 | 0.140 | 94.80 | 38.00 | 0.70 | 0.00 | | 0.02 | 0.60 |
| ODMDS F | SF-E6 | 06/27/90 | 0.154 | 0.150 | 96.30 | 32.70 | 0.70 | 0.00 | | | 0.60 |
| ODMDS F | SF-F2 | 06/27/90 | 0.169 | 0.170 | 87.20 | 22.10 | 3.00 | 0.00 | | 0.05 | 0.70 |
| ODMDS F | SF-F3 | 06/27/90 | 0.177 | 0.170 | 84.10 | 21.40 | 1.20 | 0.00 | | | 0.60 |
| ODMDS F | SF-F5 | 06/27/90 | 0.151 | 0.150 | 91.70 | 32.80 | 0.80 | 0.00 | | | 0.60 |
| ODMDS F | SF-F6 | 06/27/90 | 0.163 | 0.160 | 93.20 | 27.80 | 0.60 | 0.00 | | 0.03 | 0.50 |
| ODMDS F | SF-G1 | 06/27/90 | 0.233 | 0.210 | 65.00 | 7.30 | 1.20 | 0.00 | | | 0.70 |
| ODMDS F | SF-G4 | 06/27/90 | 0.183 | 0.170 | 83.70 | 18.80 | 1.90 | 0.00 | | 0.03 | 0.80 |
| ODMDS F | SF-G7 | 06/27/90 | 0.149 | 0.140 | 95.60 | 37.90 | 0.30 | 0.00 | | | 0.50 |

Appendix B Table B-6.--Continued.

| Sediment Quality - Physical Properties July 11, 1991 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Grain Size Mean mm | Grain Size Median mm | Grain Size Distribution Sand % finer | Vf Sand % finer | Silt % finer | Clay % | Oil ppm | TOC mg/g | Volatile Solids % by wgt |
| ODMDS F | SF-A1 | 07/11/91 | 0.173 | 0.170 | 95.60 | 16.40 | 2.20 | 0.00 | | 1.30 | 0.90 |
| ODMDS F | SF-A4 | 07/11/91 | 0.145 | 0.140 | 97.50 | 38.80 | 0.70 | 0.00 | | 0.95 | 1.00 |
| ODMDS F | SF-A7 | 07/11/91 | 0.163 | 0.160 | 98.10 | 19.50 | 0.30 | 0.00 | | 1.20 | 0.90 |
| ODMDS F | SF-B2 | 07/11/91 | 0.148 | 0.140 | 92.50 | 37.60 | 2.00 | 0.00 | | 1.00 | 0.90 |
| ODMDS F | SF-B3 | 07/11/91 | 0.140 | 0.130 | 96.70 | 44.10 | 0.90 | 0.00 | | 0.94 | 0.80 |
| ODMDS F | SF-B5 | 07/11/91 | 0.155 | 0.150 | 95.60 | 31.70 | 0.50 | 0.00 | | 1.10 | 0.70 |
| ODMDS F | SF-B6 | 07/11/91 | 0.160 | 0.160 | 96.80 | 21.70 | 1.20 | 0.00 | | 1.30 | 0.80 |
| ODMDS F | SF-C2 | 07/11/91 | 0.170 | 0.170 | 87.20 | 21.40 | 1.30 | 0.00 | | 0.72 | 0.80 |
| ODMDS F | SF-C3 | 07/11/91 | 0.139 | 0.130 | 91.40 | 47.60 | 12.30 | 0.00 | | 1.40 | 1.50 |
| ODMDS F | SF-C4 | 07/11/91 | 0.145 | 0.140 | 96.20 | 37.90 | 11.50 | 4.40 | | 1.70 | 1.30 |
| ODMDS F | SF-C5 | 07/11/91 | 0.157 | 0.150 | 97.60 | 27.10 | 0.70 | 0.00 | | 0.94 | 0.70 |
| ODMDS F | SF-C6 | 07/11/91 | 0.132 | 0.130 | 97.50 | 50.20 | 0.60 | 0.00 | | 0.76 | 0.60 |
| ODMDS F | SF-D1 | 07/11/91 | 0.175 | 0.170 | 84.00 | 22.20 | 3.90 | 0.00 | | 1.70 | 1.10 |
| ODMDS F | SF-D3 | 07/11/91 | 0.077 | 0.070 | 93.80 | 82.50 | 39.30 | 7.30 | | 3.00 | 2.70 |
| ODMDS F | SF-D4 | 07/11/91 | 0.123 | 0.130 | 95.70 | 465.10 | 18.30 | 4.70 | | 2.30 | 1.70 |
| ODMDS F | SF-D5 | 07/11/91 | 0.131 | 0.140 | 95.90 | 55.30 | 0.80 | 0.00 | | 1.00 | 0.60 |
| ODMDS F | SF-D7 | 07/11/91 | 0.132 | 0.120 | 97.50 | 52.10 | 0.20 | 0.00 | | 0.96 | 0.50 |
| ODMDS F | SF-E2 | 07/11/91 | 0.097 | 0.100 | 93.60 | 73.60 | 19.50 | 5.70 | | 1.50 | 1.70 |
| ODMDS F | SF-E3 | 07/11/91 | 0.093 | 0.090 | 96.30 | 68.40 | 37.80 | 7.10 | | 4.60 | 2.50 |
| ODMDS F | SF-E4 | 07/11/91 | 0.155 | 0.150 | 96.20 | 31.00 | 1.70 | 0.00 | | 0.93 | 0.70 |
| ODMDS F | SF-E5 | 07/11/91 | 0.157 | 0.150 | 96.10 | 28.30 | 0.50 | 0.00 | | 0.75 | 0.70 |
| ODMDS F | SF-E6 | 07/11/91 | 0.155 | 0.150 | 97.00 | 32.10 | 0.90 | 0.00 | | 1.50 | 0.70 |
| ODMDS F | SF-F2 | 07/11/91 | 0.163 | 0.160 | 87.10 | 24.90 | 4.70 | 0.00 | | 1.80 | 0.70 |
| ODMDS F | SF-F3 | 07/11/91 | 0.165 | 0.150 | 83.50 | 35.30 | 0.60 | 0.00 | | 0.57 | 0.60 |
| ODMDS F | SF-F5 | 07/11/91 | 0.163 | 0.160 | 93.30 | 21.50 | 1.10 | 0.00 | | 0.75 | 0.50 |
| ODMDS F | SF-F6 | 07/11/91 | 0.147 | 0.140 | 94.40 | 42.00 | 0.90 | 0.00 | | 0.67 | 0.70 |
| ODMDS F | SF-G1 | 07/11/91 | 0.132 | 0.013 | 91.00 | 46.20 | 19.60 | 3.60 | | 7.30 | 2.00 |
| ODMDS F | SF-G4 | 07/11/91 | 0.158 | 0.015 | 86.50 | 35.90 | 2.50 | 0.00 | | 0.54 | 0.60 |
| ODMDS F | SF-G7 | 07/11/91 | 0.142 | 0.130 | 91.10 | 48.30 | 0.90 | 0.00 | | 0.71 | 0.70 |

Appendix B Table B-6.--Continued.

| Sediment Quality - Physical Properties July 1, 1992 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Grain Size Mean mm | Grain Size Median mm | Grain Size Distribution Sand % finer | Vf Sand % finer | Silt % finer | Clay % | Oil ppm | TOC mg/g | Volatile Solids % by wgt |
| ODMDS F | SF-A1 | 07/01/92 | 0.160 | 0.160 | 98.20 | 23.50 | 8.10 | 2.50 | | 0.57 | 1.00 |
| ODMDS F | SF-A4 | 07/01/92 | 0.160 | 0.160 | 97.90 | 17.50 | 1.30 | 0.00 | | 0.17 | 1.00 |
| ODMDS F | SF-A7 | 07/01/92 | 0.160 | 0.150 | 96.70 | 30.70 | 0.10 | 0.00 | | 1.20 | 1.00 |
| ODMDS F | SF-B2 | 07/01/92 | 0.170 | 0.160 | 95.20 | 18.70 | 1.60 | 0.00 | | 0.17 | 0.70 |
| ODMDS F | SF-B3 | 07/01/92 | 0.140 | 0.140 | 97.50 | 41.00 | 0.90 | 0.00 | | 0.11 | 0.60 |
| ODMDS F | SF-B5 | 07/01/92 | 0.160 | 0.160 | 97.60 | 20.40 | 1.00 | 0.00 | | 0.13 | 0.80 |
| ODMDS F | SF-B6 | 07/01/92 | 0.160 | 0.160 | 97.80 | 23.10 | 0.90 | 0.00 | | 0.10 | 0.40 |
| ODMDS F | SF-C2 | 07/01/92 | 0.250 | 0.240 | 54.40 | 7.20 | 1.30 | 0.00 | | 0.08 | 0.50 |
| ODMDS F | SF-C3 | 07/01/92 | 0.170 | 0.170 | 89.00 | 17.80 | 1.20 | 0.00 | | 0.08 | 0.70 |
| ODMDS F | SF-C4 | 07/01/92 | 0.160 | 0.150 | 96.40 | 28.30 | 3.10 | 0.00 | | 0.01 | 0.70 |
| ODMDS F | SF-C5 | 07/01/92 | 0.160 | 0.160 | 96.80 | 26.40 | 1.10 | 0.00 | | 0.08 | 0.50 |
| ODMDS F | SF-C6 | 07/01/92 | 0.160 | 0.150 | 97.50 | 30.40 | 0.60 | 0.00 | | 0.09 | 0.60 |
| ODMDS F | SF-D1 | 07/01/92 | 0.150 | 0.150 | 93.30 | 34.70 | 14.80 | 4.00 | | 1.08 | 1.60 |
| ODMDS F | SF-D3 | 07/01/92 | 0.170 | 0.160 | 88.70 | 24.80 | 0.90 | 0.00 | | 0.06 | 0.60 |
| ODMDS F | SF-D4 | 07/01/92 | 0.156 | 0.150 | 97.10 | 29.70 | 2.70 | 0.00 | | 0.15 | 0.50 |
| ODMDS F | SF-D5 | 07/01/92 | 0.145 | 0.140 | 96.70 | 39.30 | 0.90 | 0.00 | | 0.08 | 0.40 |
| ODMDS F | SF-D7 | 07/01/92 | 0.156 | 0.150 | 97.80 | 30.30 | 0.80 | 0.00 | | 0.07 | 0.40 |
| ODMDS F | SF-E2 | 07/01/92 | 0.130 | 0.140 | 92.50 | 43.30 | 21.60 | 0.00 | | 1.10 | 2.00 |
| ODMDS F | SF-E3 | 07/01/92 | 0.160 | 0.160 | 96.20 | 25.40 | 1.50 | 0.00 | | 0.11 | 0.50 |
| ODMDS F | SF-E4 | 07/01/92 | 0.156 | 0.150 | 96.00 | 29.30 | 0.60 | 0.00 | | 0.07 | 0.60 |
| ODMDS F | SF-E5 | 07/01/92 | 0.160 | 0.160 | 95.60 | 25.00 | 0.60 | 0.00 | | 0.08 | 0.60 |
| ODMDS F | SF-E6 | 07/01/92 | 0.117 | 0.100 | 97.10 | 64.70 | 0.20 | 0.00 | | 0.06 | 0.60 |
| ODMDS F | SF-F2 | 07/01/92 | 0.095 | 0.076 | 95.00 | 59.90 | 48.30 | 9.00 | | 1.97 | 5.50 |
| ODMDS F | SF-F3 | 07/01/92 | 0.163 | 0.160 | 93.60 | 21.80 | 1.30 | 0.00 | | 0.07 | 0.60 |
| ODMDS F | SF-F5 | 07/01/92 | 0.170 | 0.170 | 92.00 | 19.50 | 0.60 | 0.00 | | 0.10 | 0.60 |
| ODMDS F | SF-F6 | 07/01/92 | 0.160 | 0.150 | 95.30 | 28.00 | 0.40 | 0.00 | | 0.07 | 0.40 |
| ODMDS F | SF-G1 | 07/01/92 | 0.220 | 0.200 | 66.80 | 12.80 | 0.80 | 0.00 | | <0.05 | 0.30 |
| ODMDS F | SF-G4 | 07/01/92 | 0.163 | 0.160 | 91.10 | 29.00 | 0.90 | 0.00 | | 0.06 | 0.30 |
| ODMDS F | SF-G7 | 07/01/92 | 0.170 | 0.160 | 94.10 | 25.30 | 0.20 | 0.00 | | 0.08 | 0.50 |

Appendix B Table B-7.—ODMDS F Sediment Metals Data.

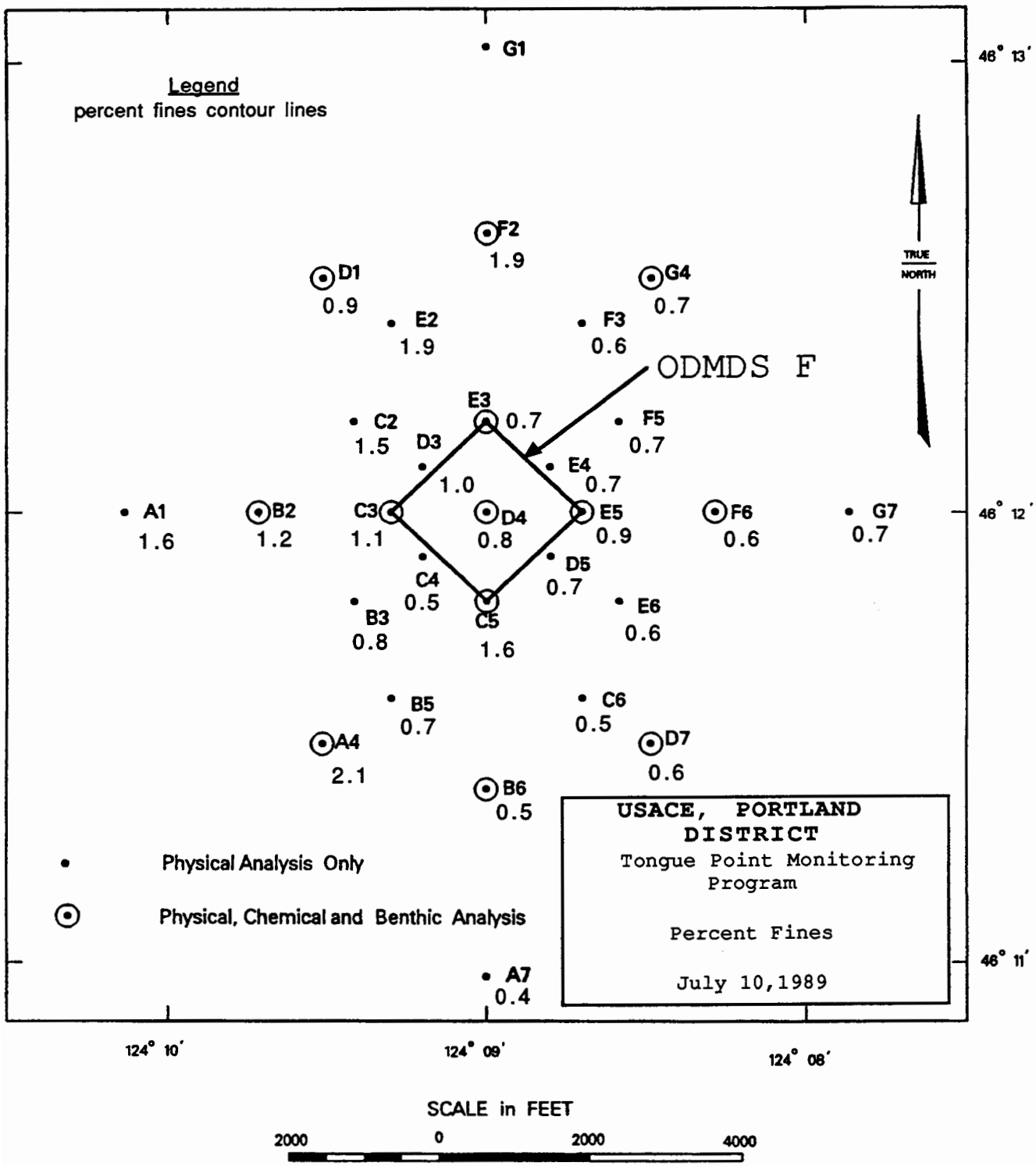
| Sediment Quality - Metals (ppm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Arsnic | Chromium | Copper | Lead | Mercury | Nickel | Zinc | Cadmium |
| ODMDS F | SF-B2 | 07/10/89 | 5.40 | 27.00 | 6.30 | 5.00 | 0.04 | 0.0 | 52 | <0.050 |
| ODMDS F | SF-B6 | 07/10/89 | 5.40 | 25.00 | 6.30 | 3.70 | <0.03 | 0.0 | 45 | <0.030 |
| ODMDS F | SF-C5 | 07/10/89 | 2.60 | 30.00 | 6.60 | 5.80 | <0.02 | 0.0 | 56 | <0.040 |
| ODMDS F | SF-D4 | 07/10/89 | 4.80 | 30.00 | 6.70 | 5.60 | <0.02 | 0.0 | 56 | 0.070 |
| ODMDS F | SF-E3 | 07/10/89 | 2.00 | 27.00 | 6.80 | 3.30 | <0.02 | 0.0 | 54 | <0.050 |
| ODMDS F | SF-F2 | 07/10/89 | 4.50 | 20.00 | 5.70 | 4.80 | <0.03 | 0.0 | 43 | <0.040 |
| ODMDS F | SF-F6 | 07/10/89 | 3.20 | 28.00 | 6.40 | 5.60 | <0.02 | 0.0 | 53 | <0.040 |
| ODMDS F | SF-A4 | 03/01/90 | 2.70 | 19.50 | 4.75 | 4.59 | 0.02 | 14.5 | 38 | 0.040 |
| ODMDS F | SF-B2 | 03/01/90 | 4.20 | 18.50 | 10.70 | 4.83 | 0.03 | 14.0 | 50 | 0.020 |
| ODMDS F | SF-B6 | 03/01/90 | 4.30 | 19.70 | 4.60 | 4.87 | 0.02 | 14.0 | 37 | 0.020 |
| ODMDS F | SF-C3 | 03/01/90 | 8.15 | 23.65 | 26.85 | 10.85 | 0.11 | 19.5 | 91 | 0.630 |
| ODMDS F | SF-C5 | 03/01/90 | 5.90 | 16.00 | 12.20 | 5.94 | 0.03 | 14.0 | 50 | 0.215 |
| ODMDS F | SF-D1 | 03/01/90 | 3.70 | 11.90 | 4.20 | 3.33 | <0.02 | 10.0 | 29 | <0.020 |
| ODMDS F | SF-D4 | 03/01/90 | 4.20 | 26.80 | 16.20 | 7.20 | 0.06 | 18.0 | 75 | 0.400 |
| ODMDS F | SF-D7 | 03/01/90 | 2.70 | 27.40 | 5.90 | 5.17 | <0.02 | 17.0 | 49 | 0.030 |
| ODMDS F | SF-E3 | 03/01/90 | 8.10 | 26.40 | 19.80 | 7.20 | 0.07 | 19.0 | 76 | 0.550 |
| ODMDS F | SF-E5 | 03/01/90 | 3.79 | 24.70 | 6.00 | 4.84 | 0.02 | 15.0 | 48 | 0.030 |
| ODMDS F | SF-F-2 | 03/01/90 | 3.30 | 19.00 | 6.80 | 3.79 | 0.02 | 14.0 | 43 | 0.060 |
| ODMDS F | SF-F6 | 03/01/90 | 2.80 | 27.10 | 6.80 | 4.96 | <0.02 | 15.0 | 51 | 0.040 |
| ODMDS F | SF-G4 | 03/01/90 | 3.10 | 15.00 | 4.20 | 3.69 | 0.02 | 12.0 | 30 | 0.020 |
| ODMDS F | SF-B2 | 06/29/92 | 3.00 | 18.00 | 7.00 | 4.00 | <0.02 | 14.0 | 42 | <0.100 |
| ODMDS F | SF-B6 | 06/29/92 | 3.00 | 22.00 | 6.00 | 5.00 | <0.02 | 15.0 | 43 | <0.100 |
| ODMDS F | SF-C5 | 06/29/92 | 3.00 | 26.00 | 6.00 | 5.00 | <0.02 | 14.0 | 48 | <0.100 |
| ODMDS F | SF-D1 | 06/29/92 | 4.00 | 13.00 | 9.00 | 5.00 | <0.02 | 11.0 | 44 | 0.200 |
| ODMDS F | SF-D4 | 06/29/92 | 3.00 | 21.00 | 8.00 | 5.00 | <0.02 | 15.0 | 48 | <0.100 |
| ODMDS F | SF-E3 | 06/29/92 | 3.00 | 20.00 | 6.00 | 5.00 | <0.02 | 14.0 | 43 | <0.100 |
| ODMDS F | SF-F2 | 06/29/92 | 6.00 | 20.00 | 22.00 | 11.00 | 0.08 | 16.0 | 76 | 0.500 |
| ODMDS F | SF-F6 | 06/29/92 | 3.00 | 21.00 | 6.00 | 5.00 | <0.02 | 13.0 | 45 | <0.100 |

Appendix B Table B-8.--ODMDS F Sediment Pesticide/PCB Data.

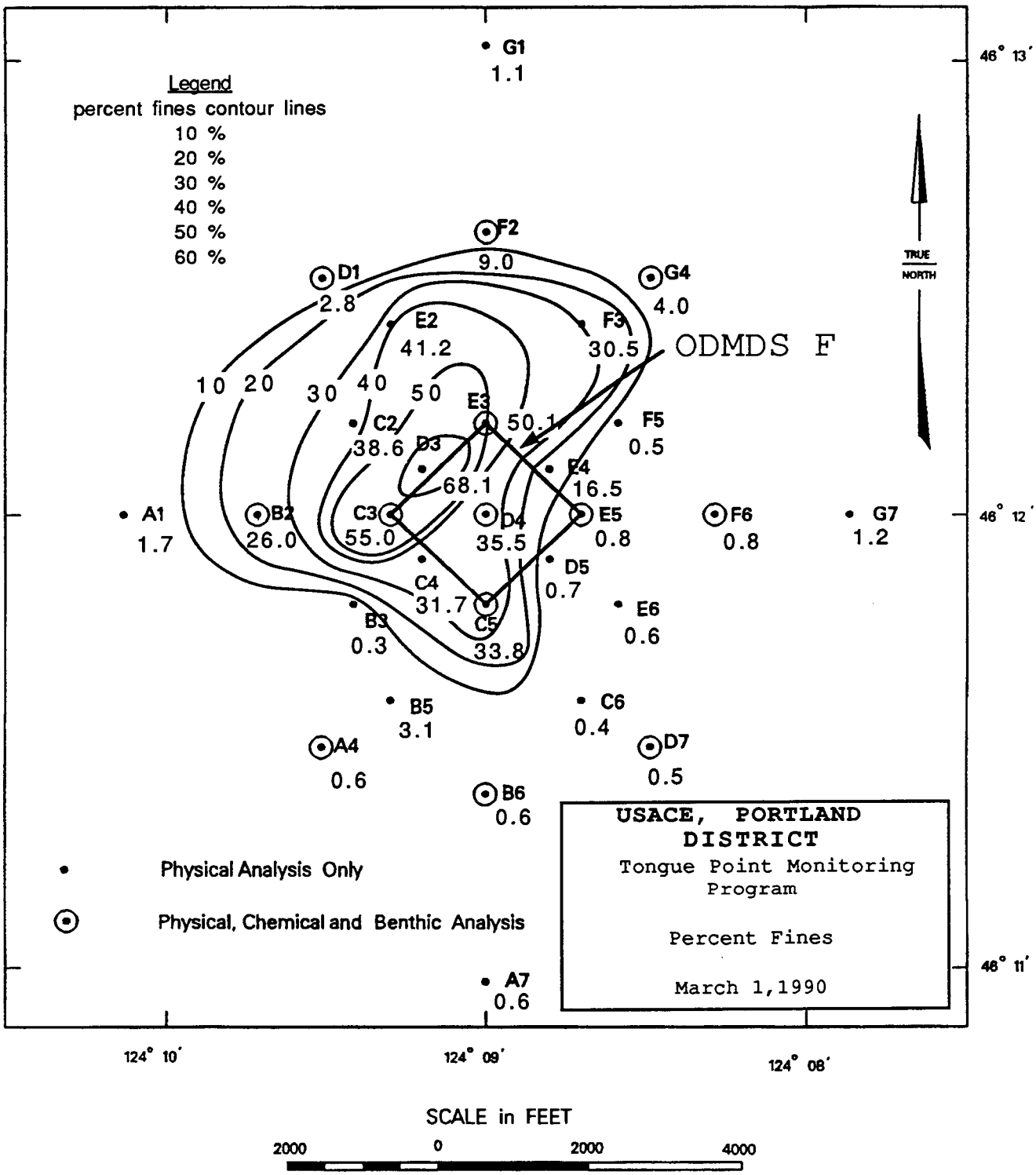
| Sediment Quality - Pesticides/PCBs (ppb) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Aldrin | Chlordane | Dieldrin | DDD | DDE | DDT | Endosulfan | Endrin | Heptachlor | Lindane | Metoxychlor | Toxaphene | PCBs |
| ODMDS F | SF-B2 | 07/10/89 | <1.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <4.0 | <150.0 | <20.0 |
| ODMDS F | SF-B6 | 07/10/89 | <1.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <4.0 | <150.0 | <20.0 |
| ODMDS F | SF-C5 | 07/10/89 | <1.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <4.0 | <150.0 | <20.0 |
| ODMDS F | SF-D4 | 07/10/89 | <1.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <4.0 | <150.0 | <20.0 |
| ODMDS F | SF-E3 | 07/10/89 | <1.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <4.0 | <150.0 | <20.0 |
| ODMDS F | SF-F2 | 07/10/89 | <1.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <4.0 | <150.0 | <20.0 |
| ODMDS F | SF-F6 | 07/10/89 | <1.0 | <1.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <4.0 | <150.0 | <20.0 |
| ODMDS F | SF-A4 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-B2 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-B6 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-C3 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-C5 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-D1 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-D4 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-D7 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-E3 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-E5 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-F-2 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-F6 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-G4 | 03/01/90 | <3.0 | <4.0 | <6.0 | <6.0 | <6.0 | <6.0 | <3.0 | <6.0 | <3.0 | <3.0 | <12.0 | <450.0 | <60.0 |
| ODMDS F | SF-B2 | 06/29/92 | <2.0 | <10.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <4.0 | <30.0 | <10.0 |
| ODMDS F | SF-B6 | 06/29/92 | <2.0 | <10.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <4.0 | <30.0 | <10.0 |
| ODMDS F | SF-C5 | 06/29/92 | <2.0 | <10.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <4.0 | <30.0 | <10.0 |
| ODMDS F | SF-D1 | 06/29/92 | <3.0 | <10.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | <6.0 | <50.0 | <20.0 |
| ODMDS F | SF-D4 | 06/29/92 | <2.0 | <10.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <4.0 | <30.0 | <10.0 |
| ODMDS F | SF-E3 | 06/29/92 | <2.0 | <10.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <4.0 | <30.0 | <10.0 |
| ODMDS F | SF-F2 | 06/29/92 | <5.0 | <30.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <10.0 | <80.0 | <30.0 |
| ODMDS F | SF-F6 | 06/29/92 | <2.0 | <10.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <4.0 | <30.0 | <10.0 |

Appendix B Table B-9.--ODMDS F Sediment PAH Data.

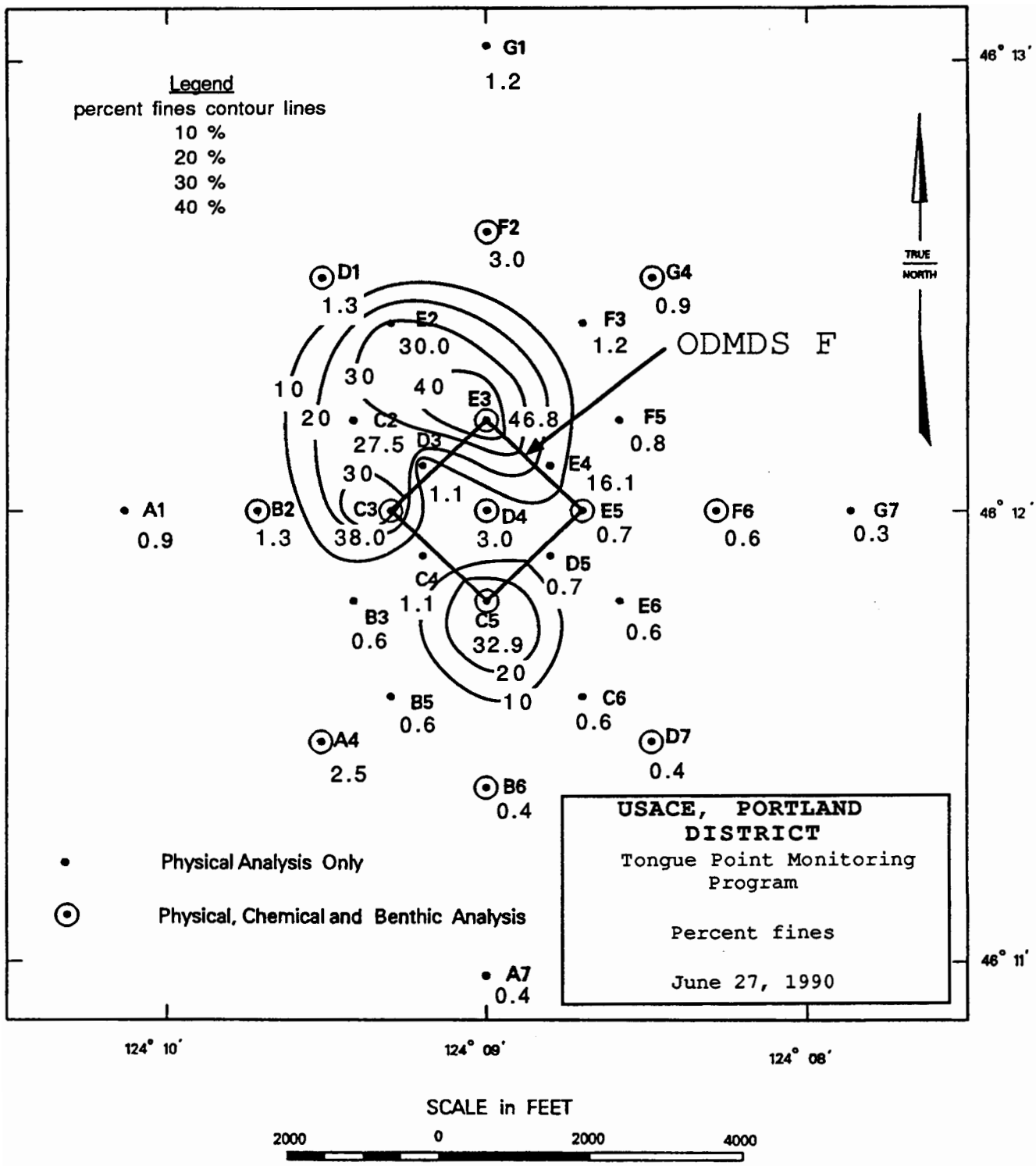
| Sediment Quality - PAHs (ppb) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Station | Date | Ace-naphthene | Ace-napthylene | Anthracene | Fluorene | Napthalene | Phen-anthrene | Total LPAHs | Benzo(a)-anthracene | Benzo(b,k)-floranthenes | Benzo-perylene | Benzo(a)-pyrene | Chrysene | Dibenzo(a,h)-anthracene | Indeno-pyrene | Fluor-anthene | Pyrene | Total HPAHs |
| ODMDS F | SF-B2 | 07/10/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | ND | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | ND |
| ODMDS F | SF-B6 | 07/10/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | ND | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | ND |
| ODMDS F | SF-C5 | 07/10/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | ND | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | ND |
| ODMDS F | SF-D4 | 07/10/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | ND | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | ND |
| ODMDS F | SF-E3 | 07/10/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | ND | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | ND |
| ODMDS F | SF-F2 | 07/10/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | ND | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | ND |
| ODMDS F | SF-F6 | 07/10/89 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | <30.0 | ND | <30.0 | <50.0 | <130.0 | <60.0 | <30.0 | <130.0 | <130.0 | <30.0 | <30.0 | ND |
| ODMDS F | SF-A4 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-B2 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-B6 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-C3 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-C5 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-D1 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-D4 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-D7 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-E3 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-E5 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-F-2 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-F6 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-G4 | 03/01/90 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | ND | <50.0 | <150.0 | <200.0 | <150.0 | <50.0 | <200.0 | <200.0 | <150.0 | <50.0 | ND |
| ODMDS F | SF-B2 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND |
| ODMDS F | SF-B6 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND |
| ODMDS F | SF-C5 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND |
| ODMDS F | SF-D1 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND |
| ODMDS F | SF-D4 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND |
| ODMDS F | SF-E3 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND |
| ODMDS F | SF-F2 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | 20.0 | 20.0 |
| ODMDS F | SF-F6 | 06/29/92 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND | <20.0 | <40.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | ND |



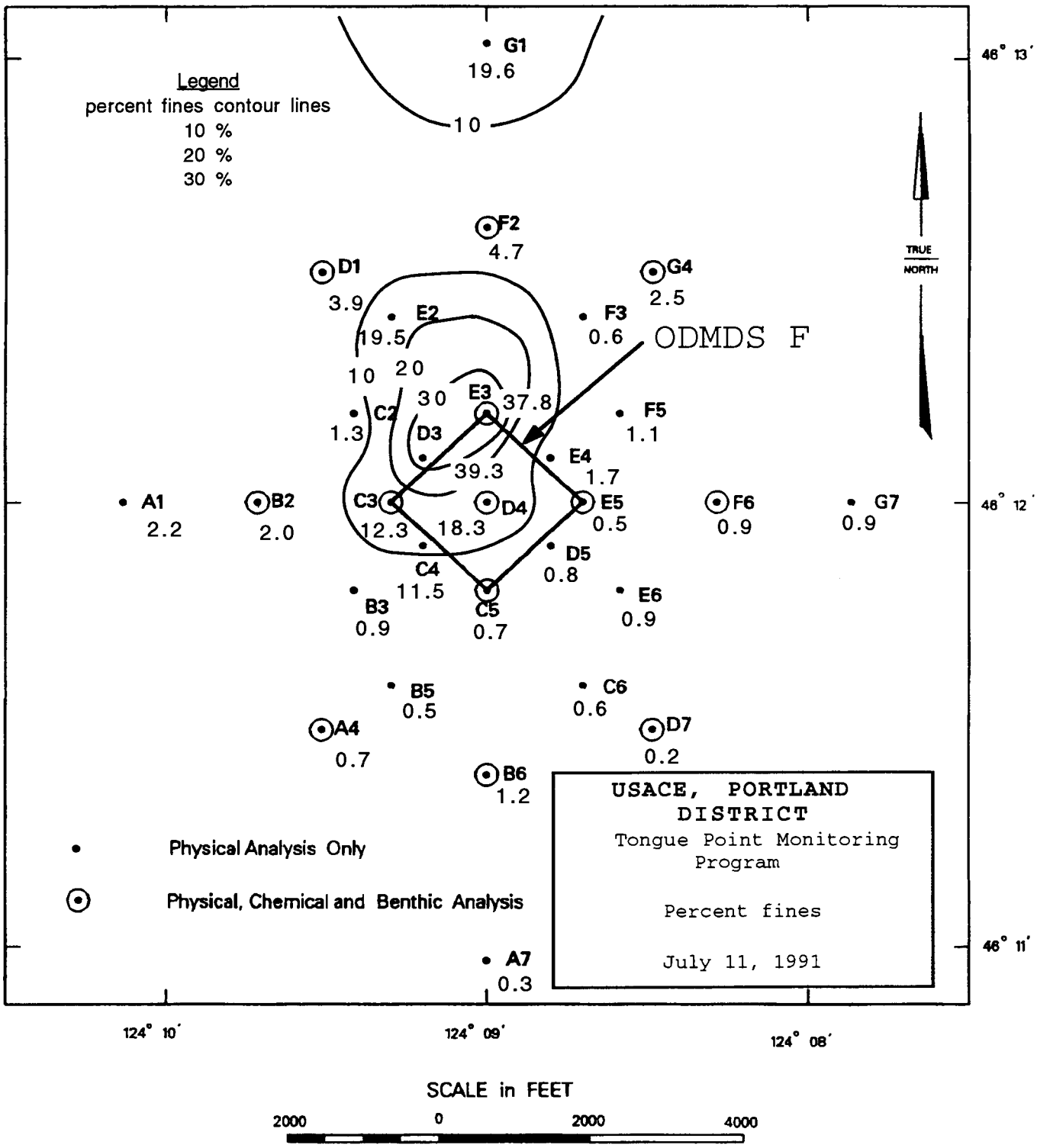

Appendix B Figure B-1.--ODMDS F % Fines July 10, 1989.



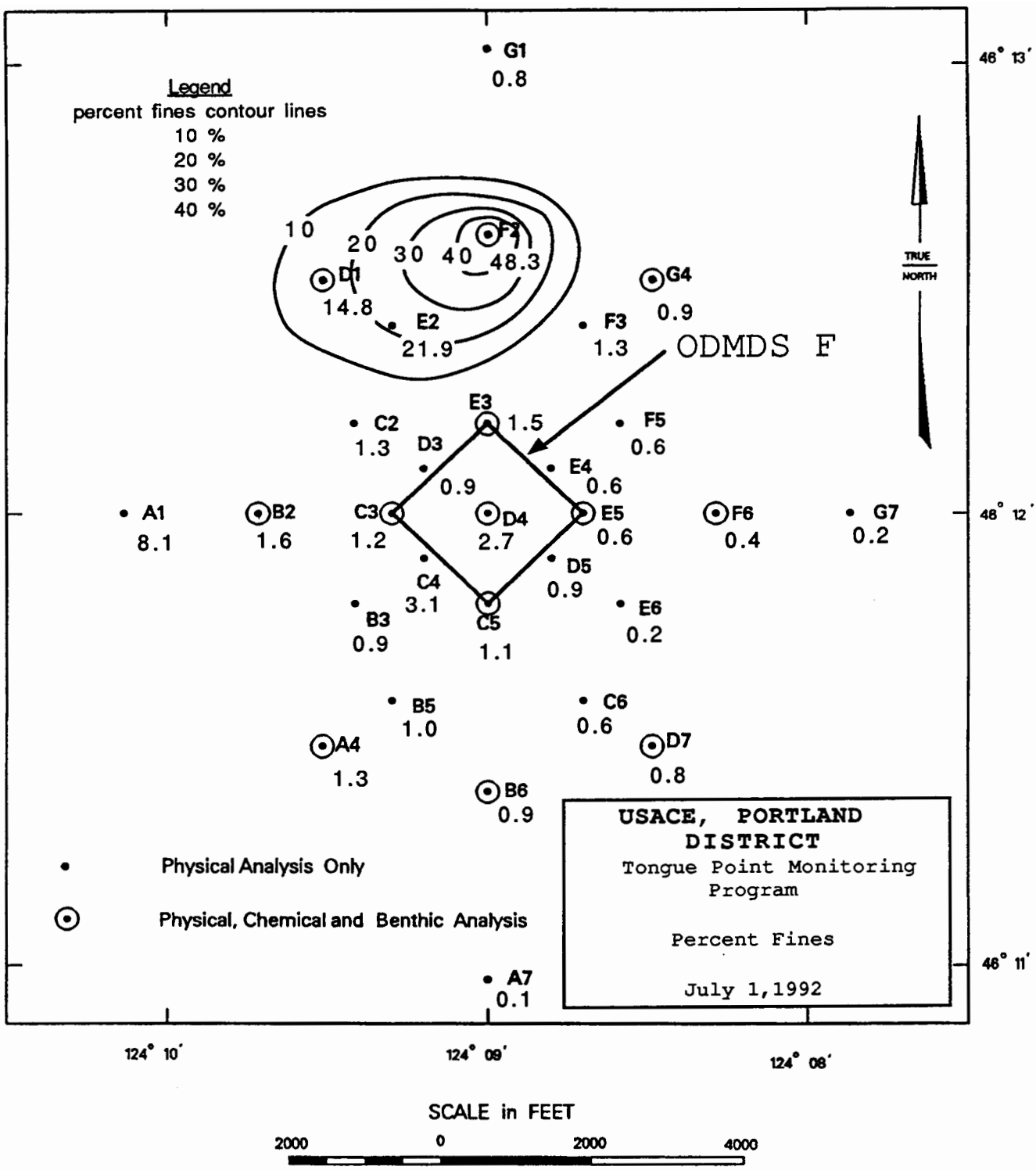

Appendix B Figure B-2.--ODMDS F % Fines March 1,1990.



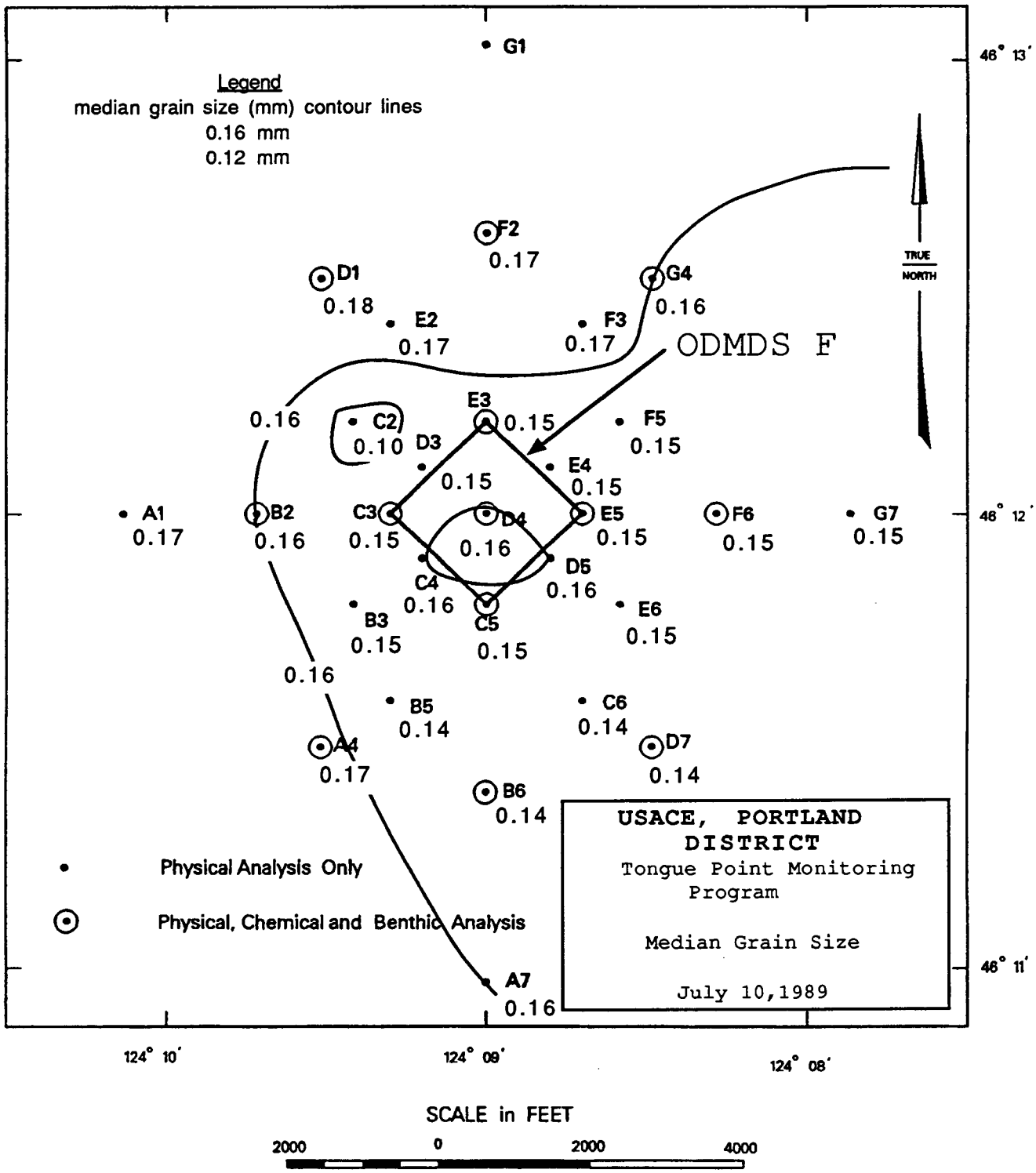

Appendix B Figure B-3.--ODMDS F % Fines June 27, 1990.



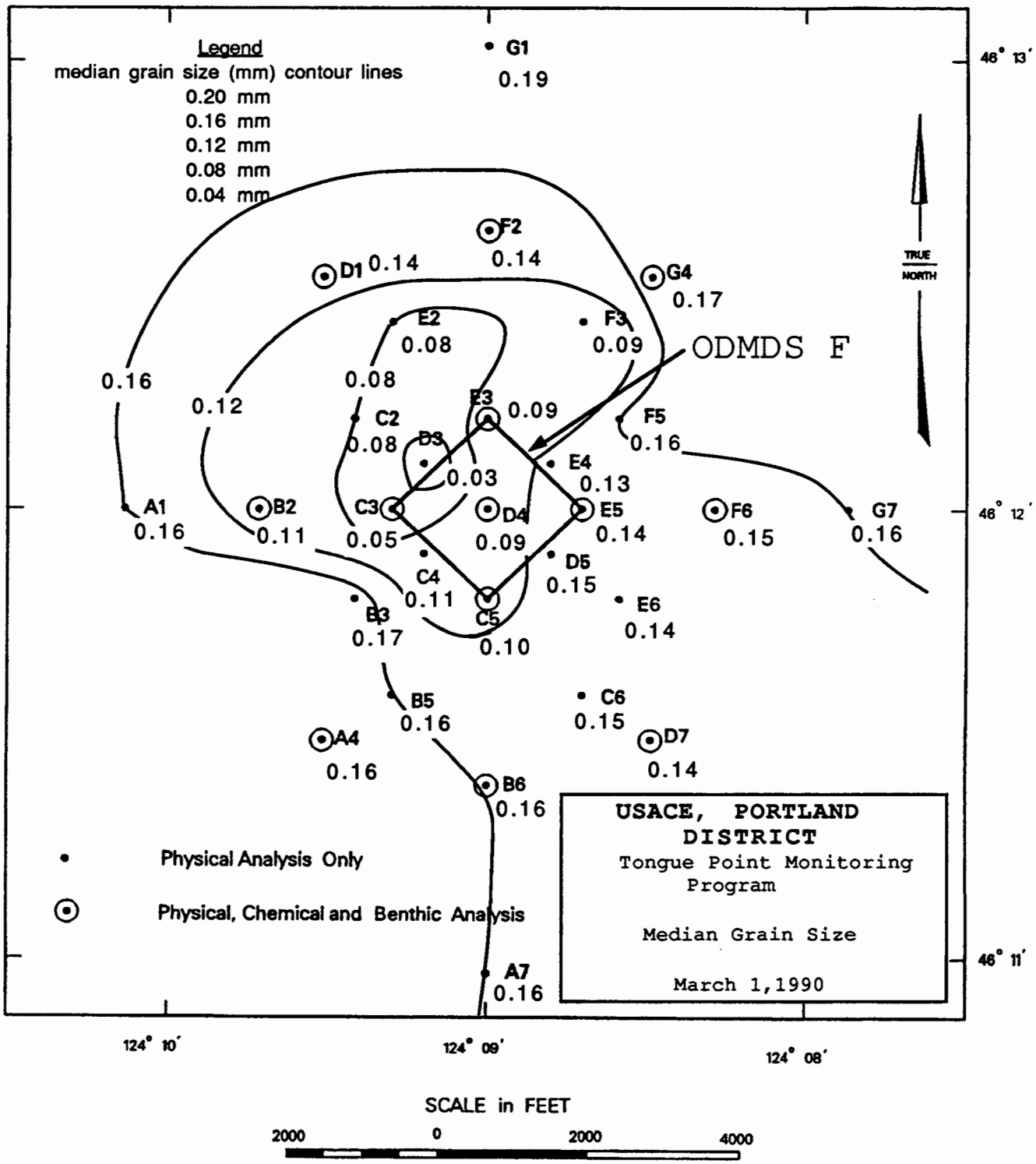

Appendix B Figure B-4.--ODMDS F % Fines July 11, 1991.



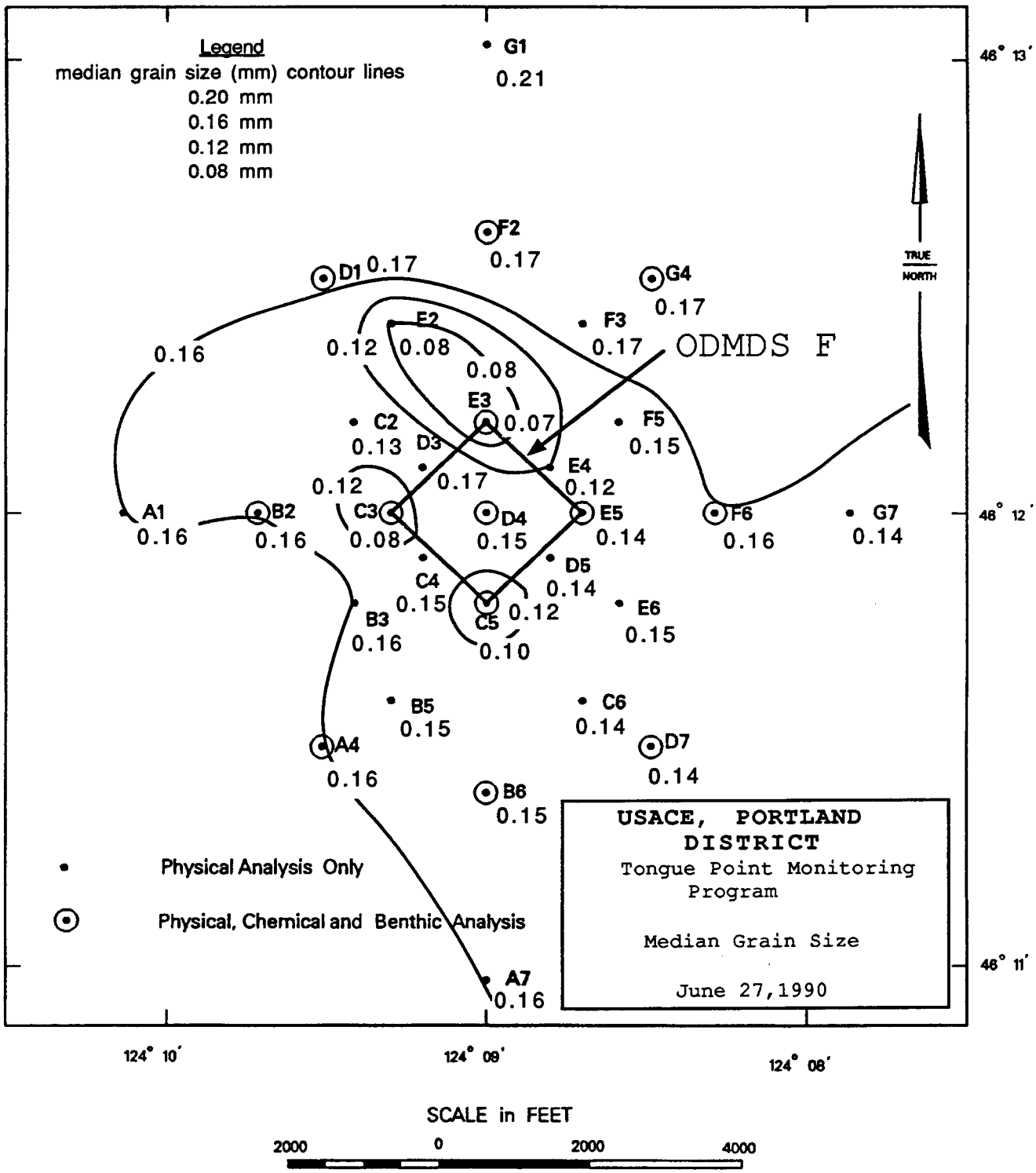

Appendix B Figure B-5.--ODMDS F % Fines July 1,1992.



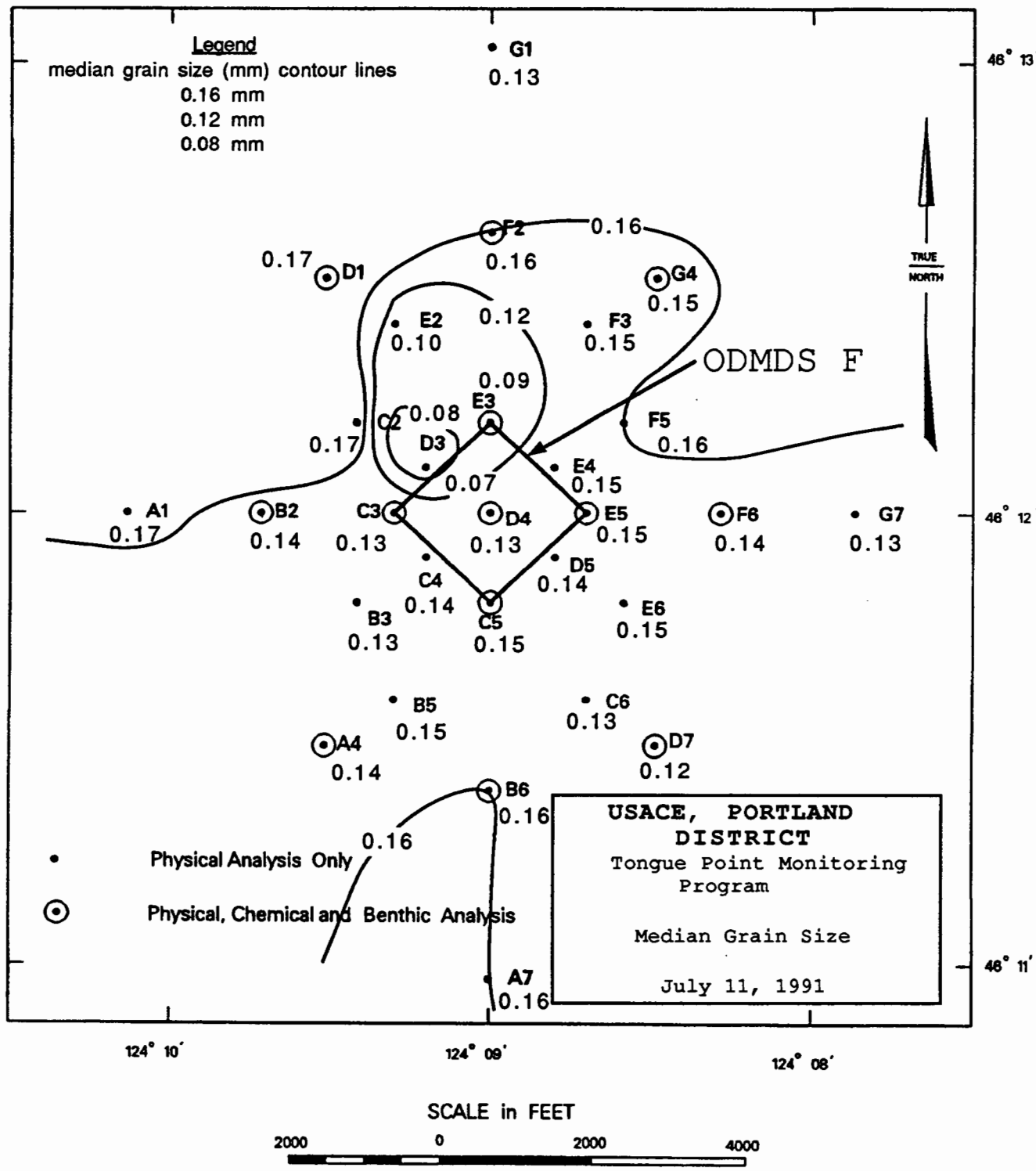

Appendix B Figure B-6.--ODMDS F Median Grain Size July 10,1989.



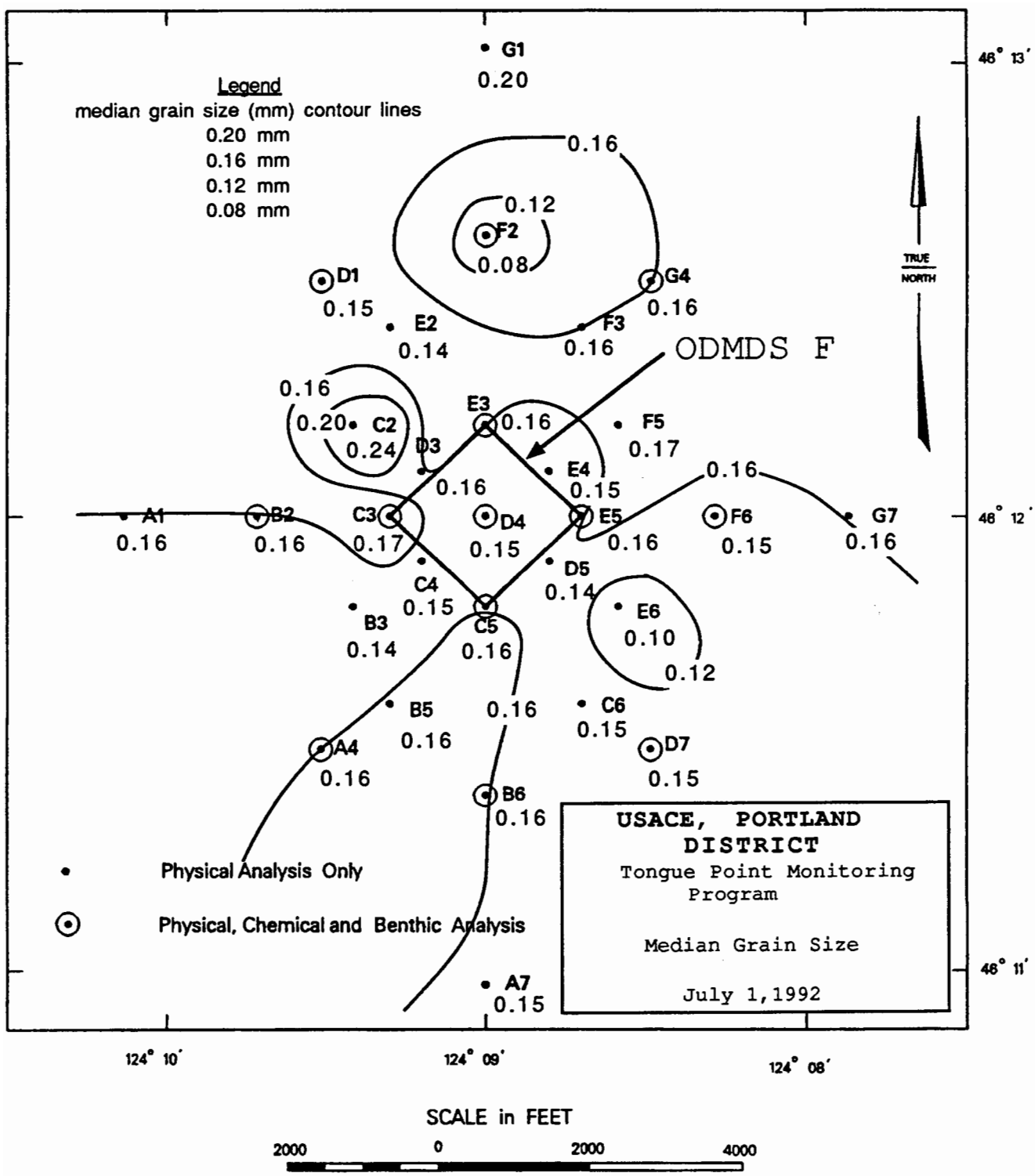

Appendix B Figure B-7.--ODMDS F Median Grain Size March 1,1990.



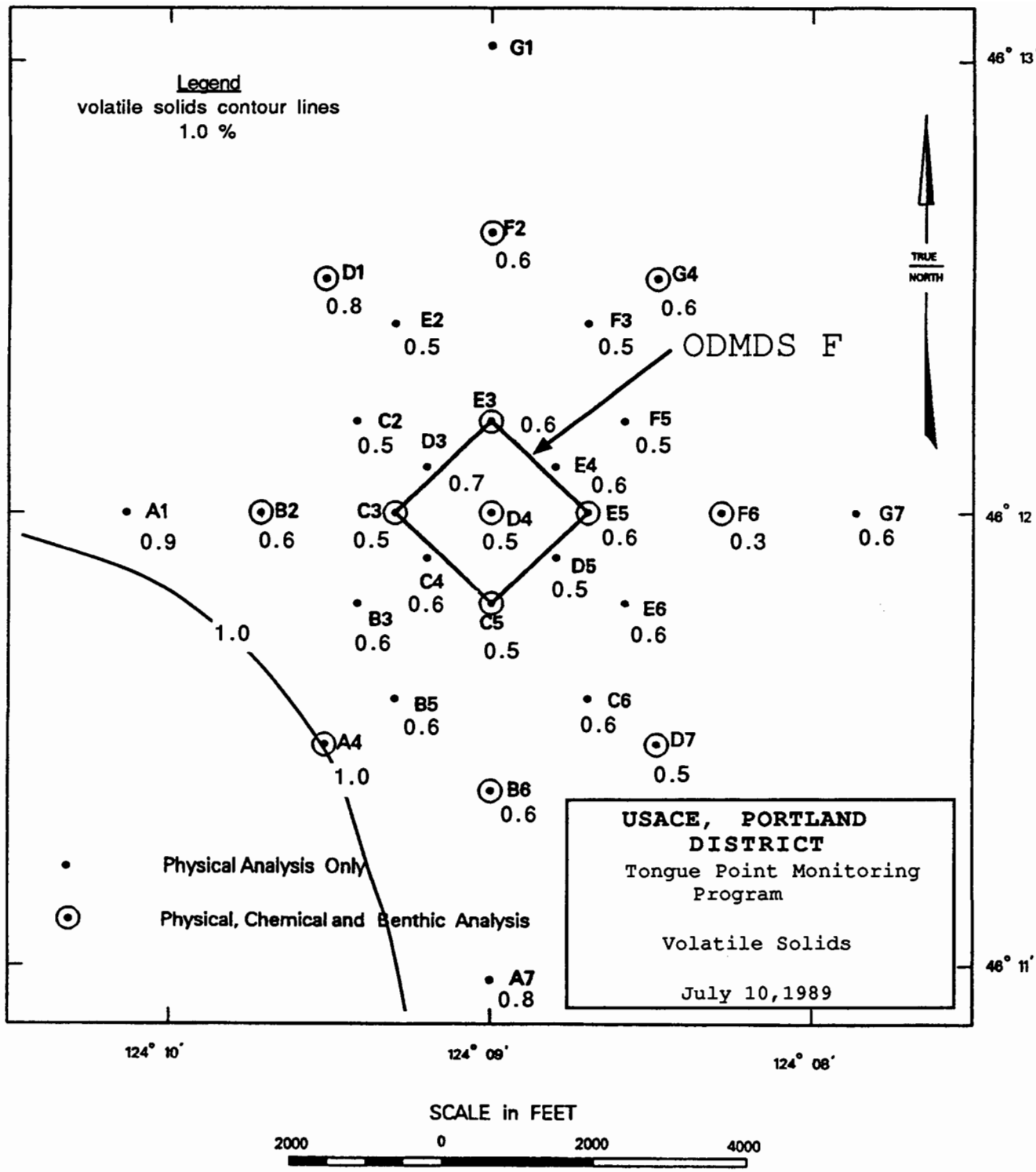

Appendix B Figure B-8.--ODMDS F Median Grain Size June 27,1990.



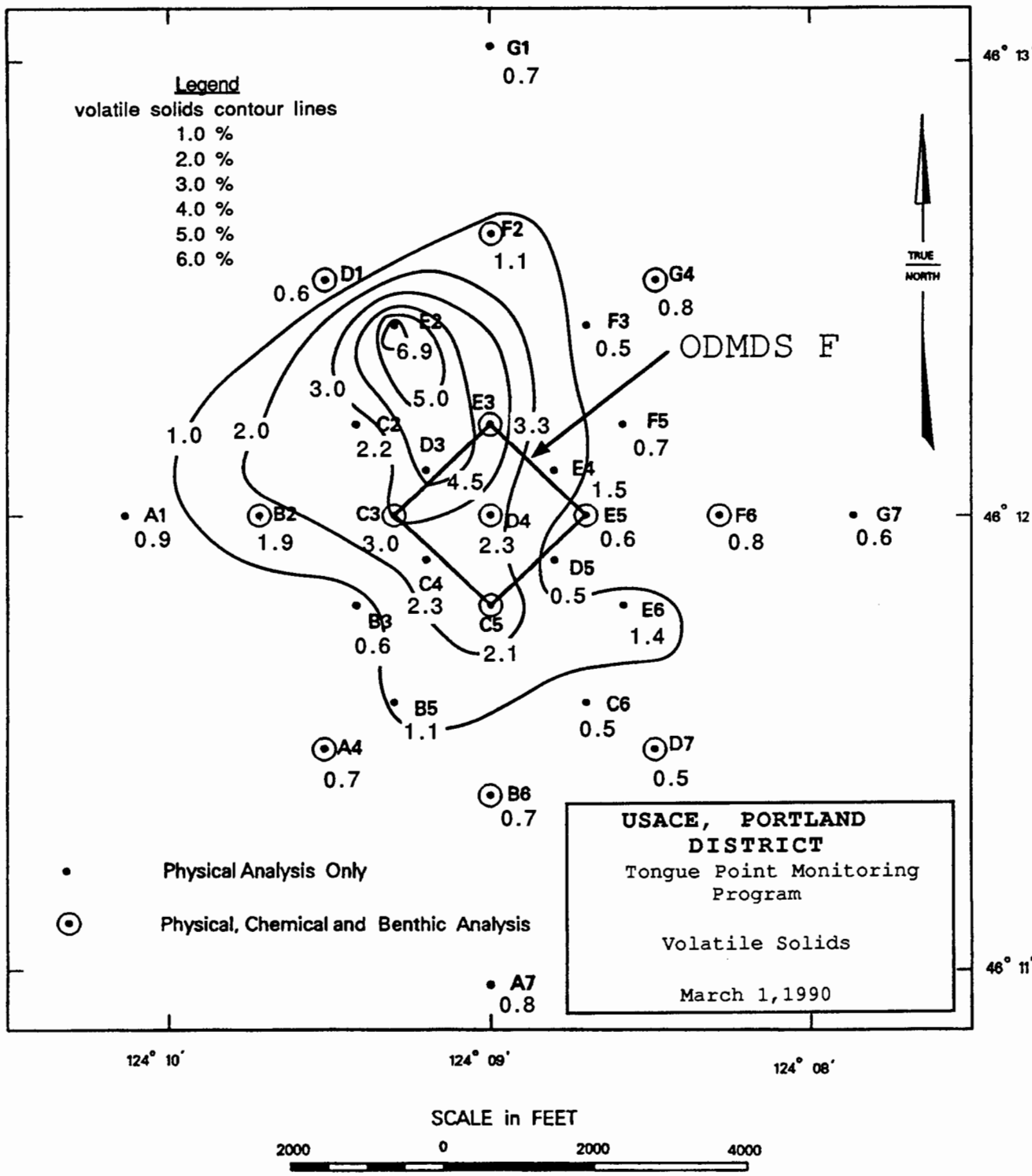

Appendix B Figure B-9.--ODMDS F Median Grain Size July 11, 1991.



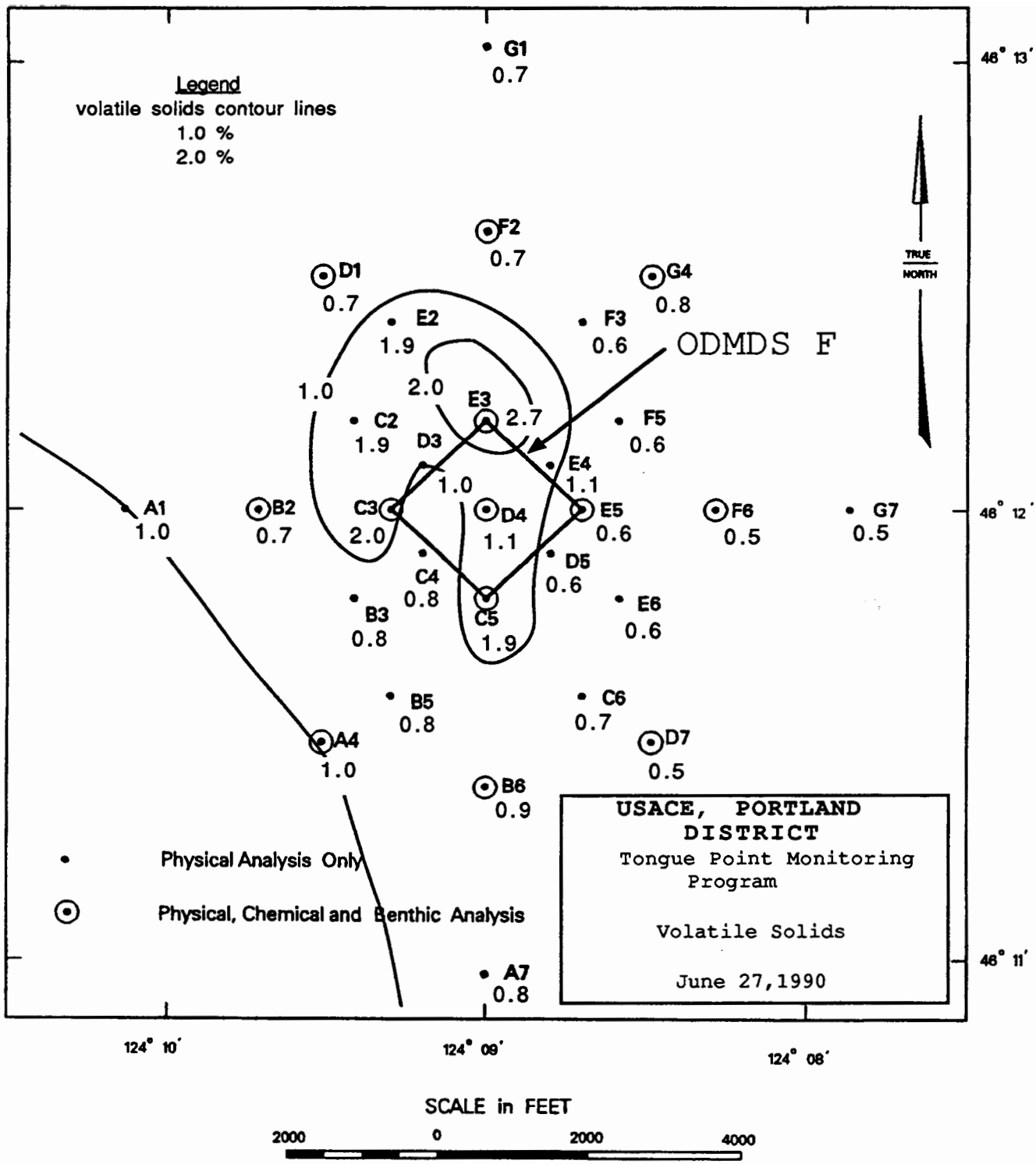

Appendix B Figure B-10.--ODMDS F Median Grain Size July 1,1992.



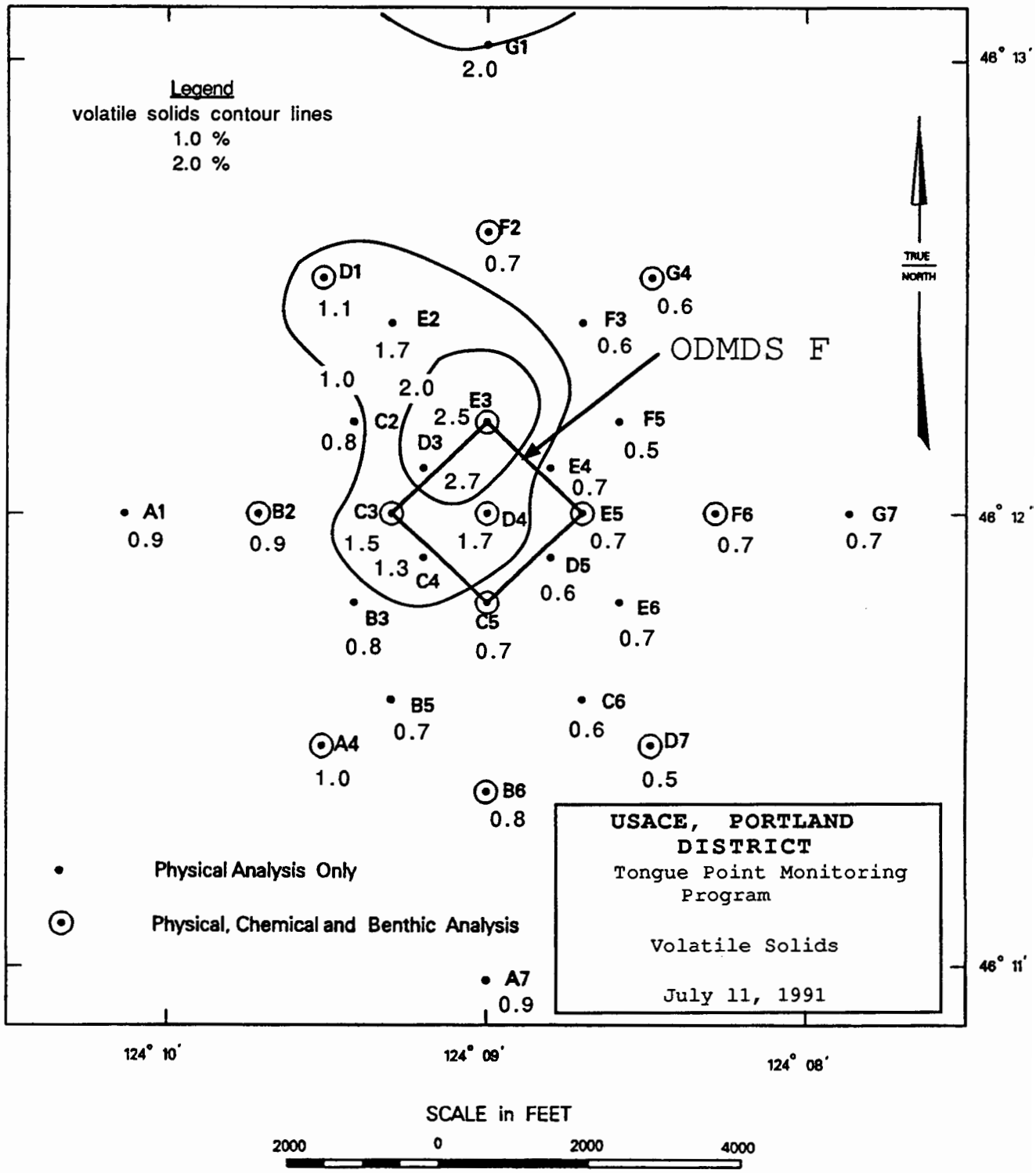

Appendix B Figure B-11.--ODMDS F % Volatile Solids July 10,1989.



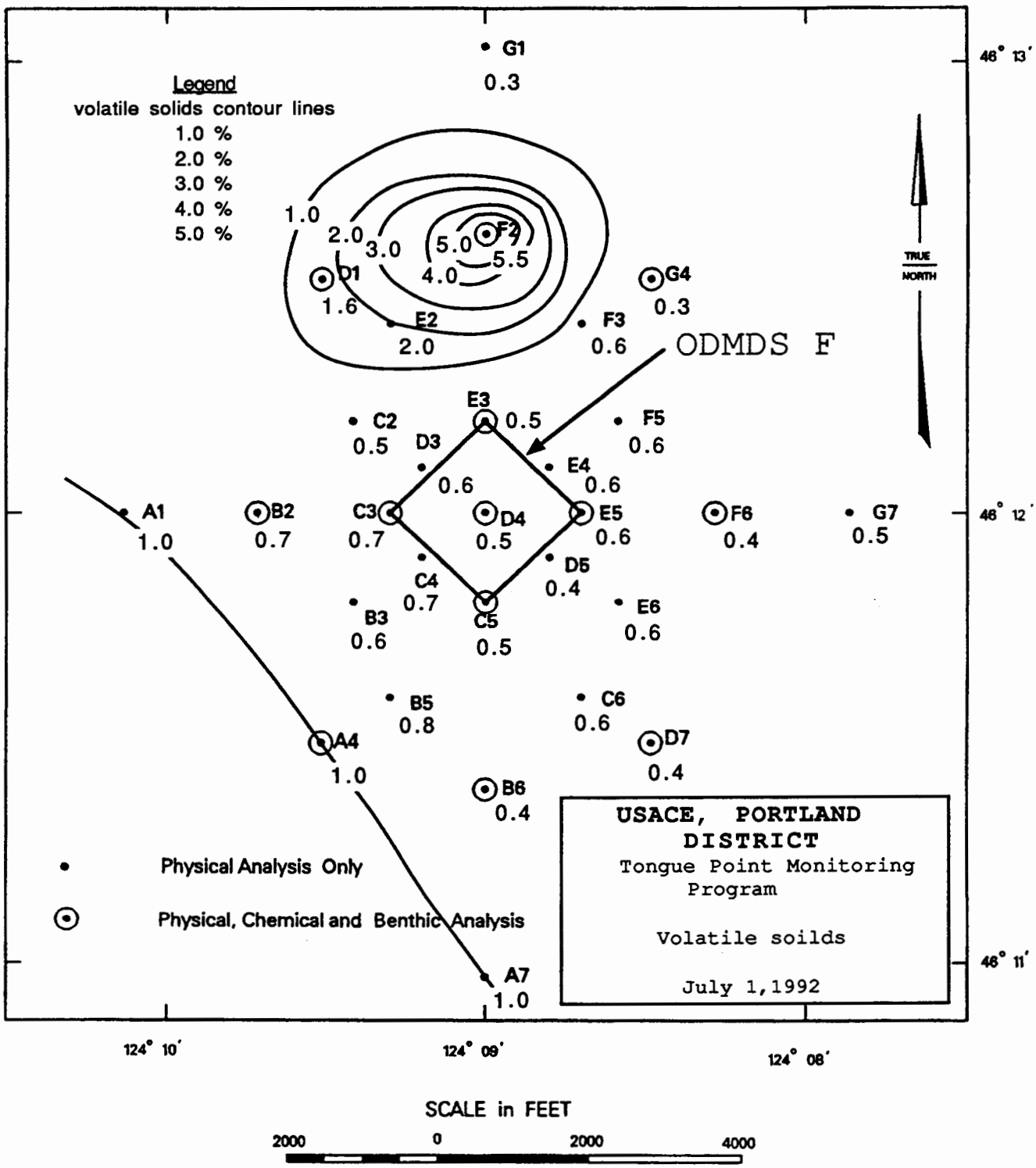

Appendix B Figure B-12.--ODMDS F % Volatile Solids March 1,1990.




Appendix B Figure B-13.--ODMDS F % Volatile Solids June 27,1990.




Appendix B Figure B-14.--ODMDS F % Volatile Solids July 11, 1991.




Appendix B Figure B-15.--ODMDS F % Volatile Solids July 1,1992.