A 05/25/78

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OCONEE - UNIT 2
OCONEE - UNIT 3

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1. M. CUNNINGHAM - ALL AMENDMENTS TO FSAR AND CHANGES TO TECH SPECS

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WILLIAM O. PARKER, JR.
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TELEPHONE: AREA 704
373-4083

May 11, 1978



Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

RE: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

Please find enclosed forty (40) copies of the Oconee Nuclear Station Radiological Environmental Monitoring Report for the period ending December 31, 1977. This report is submitted pursuant to Oconee Nuclear Station Technical Specification 6.6.1.5 as a supplement to the 1977 Annual Operating Report, which was submitted on March 31, 1978.

Very truly yours,

William O. Parker, Jr.

LJB:scs



Enclosures

cc: Mr. J. P. O'Reilly, Director
Office of Inspection and Enforcement, Region II



A007
S 1/40

## 2.13 ENVIRONMENTAL MONITORING

Table 2.13-1 summarizes the environmental monitoring program for 1977. Table 2.13-2 provides the locations of milch annimals determined by survey within a five-mile radius of the station site.

Unavoidable deviations from the routine sampling schedule during the year included nine weekly air particulate samples at the 006 (control) location between September and the end of the year due to numerous sampler malfunctions and power failures at the location. Two weekly air particulate samples at the 009 location were not collected, one in August and the other in November, due to sampler malfunction. The second semiannual aquatic vegetation sample at location 000.4 was not available due to envirionmental conditions. The January rain and settled dust samples at locations 002, 006, and 010 were lost when freezing conditions damaged the samplers. The 000.2 location rain and settled dust sample for September was lost due to vandalism.

During the year several sample types, primarily in the aquatic pathway and for locations near the waste discharge area, were statistically higher than the control samples. Aquatic vegetation samples just below the discharge point (Location 000.4) showed Mn-54, Co-58, Co-60, Cs-134, and Cs-137 at levels well above background as would be expected. In one case a small quantity of I-131 was also seen. Further downstream at location 005.2 detectable but lower levels of Co-58/60 and Cs-134/137 were seen. Bottom sediment samples at locations 000.4 and 000.7, also in or near the discharge area, showed the expected Mn-54, Co-58/60, and Cs-134/137. Fish samples at the 013 location also showed detectable levels of Cs-134/137. Surface water at location 000.7 showed levels higher than background for gross beta, tritium, Cs-137, and I-131. Drinking water at the 006.1 location had tritium activity above background and, during one period early in the year, low levels of I-131 were seen. Lastly, the 000.18 TLD location on the Restricted Area fence near a borated water storage tank was, of course, higher than at other locations.

Wherever any of the above observed activities appropriately exceeded control values, reports were written (see last column of table 2.13-1) as required by Technical Specifications explaining the occurrence with an evaluation of the dose significance. None of these observed activities resulted in a significant environmental dose potential. Finally, trend analyses for the year showed no significant long-term positive trends in environmental media except perhaps in aquatic vegetation and sediment at the waste discharge point.

The effects of two Chinese nuclear tests, one in late 1976 and one in September 1977, were easily seen in air particulate samples. Gross beta in air ran as high as 50 times normal and samples showed normally undetectable quantities of Ce-141/144 Mo-99, Ru-103, Ba/La-140, Te/I-132, and Np-239.

Table 2.13-2

SEMI-ANNUAL CENSUS
OF MILCH ANIMALS

| NAME | DISTANCE/DIRECTION FROM STATION | JANUARY-JUNE 1977 COWS | JANUARY-JUNE 1977 GOATS | JULY-DECEMBER 1977 COWS | JULY-DECEMBER 1977 GOATS |
|---|---|---|---|---|---|
| FEW | 4 MI ENE | 1 | 0 | 1 | 0 |
| MERCK | 3 MI E | 1* | 0 | 1* | 0 |
| HALE | 4½ MI E | 0 | 1* | 0 | 1* |
| RAMPLEY | 4½ MI ESE | 1 | 0 | 1* | 0 |
| HOLDER | 3 MI SE | 2 | 0 | 1 | 0 |
| DYAR | 1½ MI SSW | 1* | 0 | 1* | 0 |
| POWELL | 4½ MI W | 65 | 0 | 65 | 0 |
| MERRIL | 4 MI NNW | 1 | 0 | 0 | 0 |
| HENDRIX | 1½ MI E | 1 | 0 | 1* | 0 |
| LUSK | 3 MI E | 1* | 0 | 1* | 0 |

* Unavailable for sampling

TABLE 2.13-1

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

DOCKET NOS. 50-269, -270, -287
JANUARY 1, 1977-DECEMBER 31, 1977

| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Air Particulates ($pCi/m^3$) 4 Locations | Gross α 197 | 0.001 | 0.019(153/154) (0.0009-0.20) | 006 8 miles SSE | 0.027(43/43) (0.0013-0.27) | 0.027(43/43) (0.0013-0.27) | 0 |
| | Gross β 197 | 0.01 | 0.17(153/154) (0.0034-1.4) | 014 1.8 miles ESE | 0.21(52/52) (0.0034-1.4) | 0.20(43/43) (0.027-1.5) | 0 |
| | $^{89}Sr$ 48 | 0.005 | 0.0084(35/36) (0.0007-0.035) | 006 | 0.019(11/12) (0.0011-0.13) | 0.019(11/12) (0.0011-0.13) | 0 |
| | $^{90}Sr$ 48 | 0.001 | 0.0015(36/36) (0.0001-0.0036) | 006 | 0.0019(12/12) (0.0001-0.0052) | 0.0019(12/12) (0.0001-0.0052) | 0 |
| | γ- Spec 197 | | | | | | |
| | $^{54}Mn$ | 0.01 | 0.018(15/54) (0.0035-0.077) | 000 0.1 miles N | 0.021(4/52) (0.0060-0.049) | 0.019(9/43) (0.0039-0.066) | 0 |
| | $^{60}Co$ | 0.01 | 0.0083(21/154) (0.0033-0.015 | 014 | 0.0096(10/52) (0.0046-0.015) | 0.0080(9/43) (0.0035-0.014) | 0 |
| | $^{95}Zr/Nb$ | 0.01 | 0.037(112/154) (0.0033-0.12) | 006 | 0.045(33/43) (0.0010-0.13) | 0.045(33/43) (0.0010-0.13) | 0 |
| | $^{134}Cs$ | 0.01 | 0.0018(1/154) | 000 | 0.0018(1/52) | <LLD | 0 |
| | $^{137}Cs$ | 0.01 | 0.0077(40/154) (0.0016-0.018) | 014 | 0.0091(16/52) (0.0050-0.018) | 0.0084(12/43) (0.0027-0.021) | 0 |
| | $^{131}I$ | 0.07 | 0.026(42/154) 0.0041-0.16 | 006 | 0.036(10/43) (0.0044-0.15) | 0.036(10/43) (0.0044-0.15) | 0 |

[a]Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).

TABLE 2.13-1 (Cont.)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

DOCKET NOS. 50-269, -270, -287
JANUARY 1, 1977-DECEMBER 31, 1977

| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Location with Highest Annual Mean Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Aquatic Vegetation (pCi/Kg, wet) 3 Locations | $^{89}Sr$ 5 | 40 | <LLD | | <LLD | <LLD | 0 |
| | $^{90}Sr$ 5 | 8 | 75(2/3) (70-81) | 005.5 4.5 miles S | 75(2/2) (70-81) | 43(2/2) (36-50) | |
| | $\gamma$- Spec 5 | | | | | | |
| | $^{54}Mn$ | 100 | 450(3/3) (246-766) | 000.4 0.25 miles E | 766(1/1) | <LLD | 1 |
| | $^{58}Co$ | 100 | 2120(3/3) (675-2900) | 000.4 | 2900(1/1) | <LLD | 3 |
| | $^{60}Co$ | 100 | 865(3/3) (230-1700) | 000.4 | 1700(1/1) | <LLD | 1 |
| | $^{134}Cs$ | 100 | 2850(3/3) (1260-3990) | 000.4 | 3300(1/1) | <LLD | 3 |
| | $^{137}Cs$ | 100 | 3180(3/3) (130-7030) | 000.4 | 7030(1/1) | <LLD | 3 |
| | $^{131}I$ | 80 | 234(2/3) (165-304) | 000.4 | 304(1/1) | <LLD | 0 |

[a]Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

DOCKET NOS. 50-269, -270, -287
JANUARY 1, 1977-DECEMBER 31, 1977

| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Location with Highest Annual Mean Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Bottom Sediment (pCi/Kg, dry) 6 Locations | $^{89}Sr$ 23 | 600 | <LLD | | <LLD | <LLD | 0 |
| | $^{90}Sr$ 23 | 150 | 111(10/20) (86-160) | 000.5 0.3 miles N | 127(3/3) (120-140) | 127(3/3) (120-140) | 0 |
| | $\gamma$- Spec 18 | | | | | | |
| | $^{54}Mn$ | 150 | 581(3/15) (236-939) | 000.4 0.25 miles E | 581(3/3) (236-939) | <LLD | 0 |
| | $^{58}Co$ | 150 | 5670(5/15) (832-12200) | 000.7 1 mile SSE | 7550(1/3) | <LLD | 2 |
| | $^{60}Co$ | 150 | 1340(7/15) (283-4990) | 000.4 | 2380(3/3) (979-4990) | <LLD | 1 |
| | $^{134}Cs$ | 150 | 3370(12/15) (204-22,000) | 000.4 | 10,200(3/3) (4280-22,000) | <LLD | 3 |
| | $^{137}Cs$ | 150 | 5390(12/15) (110-39,100) | 000.4 | 15,800(3/3) (110-39,100) | 703(1/3) | 3 |
| Fish (pCi/kg, wet) 2 Locations | $^{89}Sr$ 11 | 40 | <LLD | | | <LLD | 0 |
| | $^{90}Sr$ 11 | 8 | 430(6/6) (89-950) | 013 5.8 miles S | 430(6/6) (89-950) | 570(5/5) (89-980) | 0 |
| | $^{54}Mn$ | 130 | <LLD | | <LLD | <LLD | 0 |

[a] Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).

TABLE 2.13-1 (Cont.)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

DOCKET NOS. 50-269, -270, -287
JANUARY 1, 1977-DECEMBER 31, 1977

| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Location with Highest Annual Mean Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Fish (Cont'd) | $^{59}Fe$ | 260 | <LLD | | <LLD | <LLD | 0 |
| | $^{60}Co$ | 130 | <LLD | | <LLD | <LLD | 0 |
| | $^{65}Zn$ | 260 | <LLD | | <LLD | <LLD | 0 |
| | $^{134}Cs$ | 130 | 180(6/8) (62-530) | 013 | 180(6/8) (62-530) | <LLD | 0 |
| | $^{137}Cs$ | 130 | 360(8/9) (100-1200) | 013 | 360(8/9) (100-1200) | 89(3/5) (62-136) | 1 |
| Milk (pCi/liter) 3 Locations | $^{131}I$ 76 | 0.5 | 0.98(14/69) (0.15-6.0) | 002.1 5 miles NW | 0.98(14/64) (0.15-6.0) | <LLD | 1 |
| | $^{3}H$ 19 | 330 | 244(16/16) (100-390) | 006.3 8 miles SSE | 567(3/3) (410-820) | 567(3/3) (410-820) | 0 |
| | $^{89}Sr$ 22 | 10 | 2.7(1/16) | 002.1 | 2.7(1/12) | <LLD | 0 |
| | $^{90}Sr$ 22 | 2 | 4.3(16/16) (1-12) | 015 1.5 miles E | 12(1/1) | 3.5(6/6) (1.3-5.4) | 0 |
| | $\gamma$- Spec 22 | | | | | | |
| | $^{134}Cs$ | 15 | <LLD | | <LLD | <LLD | 0 |
| | $^{137}Cs$ | 15 | <LLD | | <LLD | <LLD | 0 |

[a]Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

DOCKET NOS. 50-269, -270, -287
JANUARY 1, 1977-DECEMBER 31, 1977

| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Location with Highest Annual Mean Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Milk (Cont'd) | $^{140}$Ba/La | 15 | <LLD | | <LLD | <LLD | 0 |
| | $^{40}$K | 200 | 1200(16/16) (578-1750) | 015 Hendrix 1.5 miles E | 1300(1/1) | 1200(7/7) (950-1400) | 0 |
| Radiation Dose (mR/hr) 25 Locations | TLD 98 | 0.005 | 0.035(94/94) (0.005-0.74) | 000.18 0.1 miles W | 0.46(4/4) (0.13-0.74) | 0.011(4/4) (0.01-0.013) | 6 |
| Rain & Settled Dust ($pCi/m^2$) 6 Locations | Gross $\alpha$ 67 | 10 | 770(54/56) (76-2000) | 000 0.1 mile N | 860(11/12) (78-2000) | 800(10/11) (120-2200) | 0 |
| | Gross $\beta$ 67 | 10 | 6300(56/56) (140-17,000) | 002 5 miles W | 7000(11/11) (2300-16,000) | 6100(11/11) (1800-15,000) | 0 |
| | $\gamma$- Spec 67 | | | | | | |
| | $^{54}$Mn | 1000 | 2900(24/56) (350-16,000) | 000 | 3600(6/12) (420-16,000) | 2300(6/11) (250-7600) | 0 |
| | $^{60}$Co | 1000 | 1600(21/56) (110-5800) | 002 5 miles W | 2200(5/11) (550-5800) | 1400(5/11) (330-3900) | 0 |
| | $^{65}$Zn | 1000 | 2100(10/56) (1100-4700) | 002 | 4700(1/11) | 2000(5/9) (720-3500) | 0 |
| | $^{137}$Cs | 1000 | 2800(29/56) (720-12,000) | 002 | 3300(5/11) (1900-8500) | 2800(7/11) (490-11,000) | 0 |
| | $^{131}$I | 1000 | 2800(27/56) (510-8300) | 006 8 miles SSE | 3100(7/11) (790-8900) | 3100(7/11) (790-8900) | 0 |

[a]Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).

TABLE 2.13-1 (Cont.)



ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

DOCKET NOS. 50-269, -270, -287
JANUARY 1, 1977-DECEMBER 31, 1977

| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Location with Highest Annual Mean Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Soil (pCi/Kg, dry) 3 Locations | $^{89}Sr$ 3 | 600 | <LLD | | <LLD | <LLD | 0 |
| | $^{90}Sr$ 3 | 150 | 150(1/2) | 006 8 miles SSE | 210(1/1) | 210(1/1) | 0 |
| | $\gamma$- Spec 3 | | | | | | |
| | $^{134}Cs$ | 150 | <LLD | | <LLD | <LLD | 0 |
| | $^{137}Cs$ | 150 | <LLD | | <LLD | <LLD | 0 |
| Surface Water (pCi/liter) 3 Locations | Gross $\alpha$ 73 | 0.5 | | | | | 0 |
| | Dissolved | | 1.4(25/61) (0.21-5.9) | 000.7 0.25 miles SSE | 2.0(10/13) (0.21-5.9) | 0.78(2/12) (0.30-1.3) | |
| | Suspended | | 1.5(14/61) (0.27-5.9) | 000.7 | 3.4(2/13) (0.82-5.9) | 0.35(2/12) (0.25-0.45) | |
| | Gross $\beta$ 73 | 1.0 | | | | | 4 |
| | Dissolved | | 8.6(58/61) (0.20-52) | 000.7 | 26(13/13) (1.8-52) | 2.5(11/12) (1.6-4.1) | |
| | Suspended | | 2.9(16/61) (0.81-18) | 000.7 | 4.8(5/13) (0.83-18) | 1.5(2/12) (1.4-1.6) | |
| | $^{3}H$ 52 | 330 | 2100(48/48) (110-9400) | 000.7 | 2900(19/19) (190-9400) | 165(4/4) (110-270) | 9 |
| | $^{89}Sr$ 38 | 10 | <LLD | | <LLD | <LLD | 0 |

[a]Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

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| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Location with Highest Annual Mean Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Surface Water (Cont'd) | | | | | | | |
| | $^{90}Sr$ 38 | 2 | 1.2(1/34) | 005.2 4.5 miles S | 1.2(1/9) | <LLD | 0 |
| | $\gamma$- Spec 105 | | | | | | |
| | $^{54}Mn$ | 15 | 16(11/93) (6.6-44) | 000.7 | 19(9/28) (7.5-44) | <LLD | 0 |
| | $^{58}Co$ | 15 | 26(2/93) (23-30) | 000.7 | 26(2/28) (23-30) | <LLD | 0 |
| | $^{60}Co$ | 15 | 13(6/93) (5.6-24) | 000.7 | 18(2/28) (16-20) | <LLD | 0 |
| | $^{134}Cs$ | 15 | 28(9/93) (13-74) | 000.7 | 36(5/28) | <LLD | 0 |
| | $^{137}Cs$ | 15 | 24(30/93) (6.2-130) | 000.7 | 31(15/28) (10-130) | 7.5(2/12) (6.9-8.1) | 0 |
| | $^{131}I$ | 15 | 30(26/93) (0.9-77) | 000.7 | 32(13/27) (8.5-77) | <LLD | 1 |
| Terrestrial Vegetation (pCi/Kg, wet) 4 Locations | $\gamma$- Spec 18 | | | | | | |
| | $^{95}Zr/Nb$ | 100 | 3000(11/14) (1400-8000) | 015 4.5 miles W | 3600(4/4) (1600-8000) | 2600(4/4) (1400-5200) | 0 |

[a] Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).

TABLE 2.13-1 (Cont.)

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM ANNUAL SUMMARY

OCONEE NUCLEAR STATION
OCONEE COUNTY, SOUTH CAROLINA

DOCKET NOS. 50-269, -270, -287
JANUARY 1, 1977-DECEMBER 31, 1977

| Medium or Pathway Sampled (Unit of Measurement) | Type and Total Number of Analyses Performed | Lower Limit of Detection (LLD) | All Indicator Locations Mean (f)[a] Range | Location with Highest Annual Mean Name Distance/Direction | Location with Highest Annual Mean Mean (f)[a] Range | Control Locations Mean (f)[a] Range | Number of Nonroutine Reported Measurements |
|---|---|---|---|---|---|---|---|
| Terrestrial Veg. (Cont'd) | $^{134}Cs$ | 100 | <LLD | | <LLD | <LLD | 0 |
| | $^{137}Cs$ | 100 | <LLD | | <LLD | 790(1/4) | 0 |
| | $^{140}Ba/La$ | 100 | 5500(3/14) (5000-6200) | 002.1 5 miles W | 6200(1/1) | 5700(1/1) | 0 |
| | $^{131}I$ | 80 | 3500(3/14) (2700-4100) | 002.1 | 4100(1/4) | 2100(1/4) | 0 |
| Drinking Water (pCi/liter) 3 Locations | Gross α 38 Dissolved | 0.5 | 0.95(8/25) (0.39-1.8) | 012 15 miles SSE | 1.4(2/12) (1.1-1.8) | 0.79(1/13) | 0 |
| | Suspended | | 1.4(6/25) (0.77-3.1) | 006.1 8 miles SSE | 1.6(5/13) (0.77-3.1) | <LLD | |
| | Gross β 38 Dissolved | 1.0 | 3.2(25/25) (1.9-5.5) | 006.1 | 2.7(13/13) (2.5-5.5) | 2.3(13/13) (1.4-3.8) | 0 |
| | Suspended | | 1.6(5/25) (1.1-2.2) | 006.1 | 1.7(4/13) (1.3-2.2) | 1.3(2/13) (1.2-1.4) | |
| | $^{3}H$ 28 | 330 | 890(23/23) (530-2900) | 006.1 | 1200(11/11) (530-2900) | 290(4/5) (160-590) | 2 |
| | $^{89}Sr$ 27 | 10 | <LLD | | <LLD | <LLD | 0 |

[a] Mean and range based upon detectable measurements only. Fraction of detectable measurements at specified locations is indicated in parentheses, (f).