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William Honker, Chief
RCRA Permits Branch
Hazardous Waste Management Division
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733

Dear Mr. Honker:

Enclosed are two copies of the Quarterly Technical Report for April-June 1994 for the Environmental Restoration (ER) Program at the Los Alamos National Laboratory.

If you have questions, please ask your staff to call me at (505) 665-7203.

Sincerely,

Theodore J. Taylor
Program Manager
Environmental Restoration Program

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Los Alamos National Laboratory

# Environmental Restoration

A Department of Energy environmental cleanup program

04/25 Report

# QUARTERLY TECHNICAL REPORT

# APRIL–JUNE 1994

September 6, 1994

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## LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| ADS | Activity data sheet |
| CST | Chemical Science and Technology (Division) |
| CST-9 | Environmental Chemistry Group |
| DOE | US Department of Energy |
| ESA | Engineering Sciences and Applications (Division) |
| ESA-4 | Technical Support Group |
| ESH | Environment, Safety, and Health (Division) |
| ESH-8 | Environmental Protection Group |
| EPA | US Environmental Protection Agency |
| ER | Environmental restoration |
| FY | Fiscal year |
| HSWA | Hazardous and Solid Waste Amendments |
| LANL | Los Alamos National Laboratory |
| LOD | Limit of detection |
| MDA | Material disposal area |
| MSL | Mean sea level |
| NMED | New Mexico Environment Department |
| NPDES | National pollutant discharge elimination system |
| OU | Operable unit |
| PCB | Polychlorinated biphenyl |
| PRS | Potential release site |
| PVC | Polyvinyl chloride |
| RCRA | Resource Conservation and Recovery Act |
| RFI | RCRA facility investigation |
| SAL | Screening action level |
| SVOC | Semivolatile organic compound |
| SWMU | Solid waste management unit |
| TA | Technical area |
| VOC | Volatile organic compound |

QUARTERLY TECHNICAL REPORT
APRIL–JUNE 1994
LOS ALAMOS NATIONAL LABORATORY
ENVIRONMENTAL RESTORATION PROJECT

**ALBUQUERQUE OPERATIONS OFFICE**

**CONTRACTOR: University of California**

**PROJECT MANAGER: Jorg Jansen**

**NUMBER OF POTENTIAL RELEASE SITES (sampling sites): Approximately 1,700, of which 1,076 are solid waste management units**

**SUSPECT WASTE: Radionuclides, High Explosives, Metals, Solvents, Organics**

## 1.0 INTRODUCTION

This quarterly report describes the technical status of activities in the Los Alamos National Laboratory (the Laboratory) Environmental Restoration (ER) Project. Each activity is identified by an activity data sheet (ADS) number, a brief title describing the activity or the technical area (TA) where the activity is located, and the name of the project leader. The Hazardous and Solid Waste Amendments (HSWA) portion of the facility operating permit (Module VIII, Section Q, Task V, c) requires the submission of a technical progress report on a quarterly basis. This report, submitted to fulfill the permit's requirement, summarizes the work performed and the results of sampling and analysis in the ER Project.

The data provided in this report have not been validated. These data are considered "reviewed data."

In the summary tables of this report, each individual measurement was classified as being either greater than or equal to the limit of detection (LOD) or below the LOD for that analyte. The LOD varies for analytes and for individual measurements. For analytes with measured values greater than or equal to the LOD, the measured concentration range is given. For analytes for which no values greater than or equal to the LOD were observed, the LOD range is given. Some of the LOD values for strontium-90 and tritium radionuclides are means rather than actual LODs. Screening action levels (SALs) have been developed for many, but not all, analytes. The SALs are explained in the Installation Work Plan for Environmental Restoration, Revision 3 (LANL 1993, 1017). The SALs listed in the tables are those given in that revision of the Installation Work Plan. The summary data tables in this report provide comparisons of the analytical data with the SALs. The comparison process placed each measurement into one of three categories: (1) values greater than or equal to SAL, (2) values below SAL, including analyses less than the LOD, where the LOD is less then the SAL, and (3) values below the LOD, with the LOD greater than or equal to the SAL.

A compilation of the information in the summary tables is given in Table 1-1. This table shows that information from 86,808 analyses are summarized this quarter, where an analysis is a measurement of a given analyte. Information concerning tentatively identified compounds is not included, because it is not quantitative. Of the total number of analyses, 64.6% are below the SALs. No SALs are available for 25,610 (29.5%) measurements. An additional 4.0% of the measurements are below the LOD for the analysis method that was used, with the LOD being greater than or equal to the SAL. The remaining 1.8% of the measured values are above the SALs. The majority of these values (922 out of 1,606) are from arsenic and beryllium measurements, where the SALs are below the natural background concentrations for these elements in soils at Los Alamos. The remaining values above SALs are associated with the following constituents (with the number of measurements above SALs in parentheses): radium-226 (254), thorium-232 (214), aromatic hydrocarbons (73), cesium-137 (37), polychlorinated biphenyls (31), strontium-90 (7), plutonium-238 (6), plutonium-239 (4), cadmium (2), chromium (1), and silver (1).

TABLE 1-1

COMPILATION OF DATA FROM SUMMARY TABLES

| Table Number | Number of Values | Number of Values >=LOD | Number of Values < LOD | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|
| 2-1 | 9,551 | 490 | 9,061 | 53 | 5,827 | 272 |
| 2-4 | 1,363 | 559 | 804 | 43 | 947 | 46 |
| 2-5 | 4,787 | 1,010 | 3,777 | 95 | 3,351 | 224 |
| 2-6 | 975 | 2 | 973 | 0 | 660 | 105 |
| 2-7 | 4,049 | 466 | 3,583 | 46 | 2,572 | 162 |
| 2-8 | 11,509 | 940 | 10,569 | 72 | 7,175 | 543 |
| 2-9 | 1,089 | 169 | 920 | 16 | 624 | 90 |
| 2-10 | 1,263 | 98 | 1,165 | 7 | 800 | 42 |
| 2-11 | 786 | 68 | 714 | 3 | 350 | 160 |
| 2-12 | 830 | 520 | 310 | 139 | 626 | 25 |
| 2-13 | 4,289 | 374 | 3,915 | 72 | 2,843 | 250 |
| 2-14 | 21,356 | 2,426 | 18,930 | 493 | 14,135 | 757 |
| 2-15 | 7,990 | 1,018 | 6,972 | 252 | 5,105 | 366 |
| 2-16 | 9,109 | 1,500 | 7,607 | 286 | 6,122 | 383 |
| 2-17 | 7,862 | 396 | 7,466 | 29 | 4,973 | 57 |
| **Totals** | **86,808** | **10,036** | **76,766** | **1,606** | **56,110** | **3,482** |

## 2.0 ACTIVITY DATA SHEETS

### 2.1 ADS 1049—Canyons (Project Leader: Everett Springer)

An agreement was reached with the Laboratory's Technical Support Group (ESA-4) to provide the administrative and field support for the eight mini work plans scheduled for Operable Unit (OU) 1049. The outline for the Los Alamos and Pueblo Canyons work plan was revised and reviewed. The scope of the hydrology investigations was reviewed. The biological survey report for Los Alamos and Pueblo Canyons is in preparation. Biological survey personnel are performing reconnaissance surveys of Barrancas and Rendija Canyons.

### 2.2 ADS 1071—TAs-0, -19, -26, -73, -74 (Project Leader: Jim Aldrich)

The primary focus for OU 1071 during this past quarter has been to perform field work at several solid waste management units (SWMUs).

**SWMU Group 0-3.** The location of Septic Tank 0-030(c) was confirmed through hand augering in early April. Surface geophysical methods were used to obtain a geophysical signature for the buried tank before it was removed; this information was then used to better define suspected tank locations at 0-030 (e-south), (f), and (q). Tank removal activities for 0-030(c) began in May, and the tank and outfall pipelines were removed in early June. All field-screening and sample analytical results received to date have been below SALs or at background levels. Results received to date for chemical analyses of

samples taken from hand-auger holes and excavation soils are presented on Table 2-1 (see Section 1.0 for an explanation of this summary table).

**Bandelier National Monument.** OU 1071 personnel prepared the field sampling plans for the borrow pits, landfill, and surface disposal site within the boundaries of Bandelier National Monument. The documentation was completed for classifying the sites as areas of concern and SWMUs, subject to US Environmental Protection Agency (EPA) approval. Contact with representatives from Bandelier National Monument was maintained regarding the status of activities and the anticipated implementation schedule. The field work has been rescheduled in FY95.

**SWMU Group 0-4.** Field activities, begun in February of 1994, continued through this quarter. Coring in the vicinity of the Building 1 drain sumps (SWMU 0-032) and the Building 3 waste pits [SWMU 0-031(b)] was completed by mid-April. Removal of contaminated soils and backfilling of the Building 3 underground storage tank excavations were completed in late April. Analytical results from sampling associated with the shallow borehole advanced in the Building 3 waste pit indicated the presence of elevated concentrations of petroleum hydrocarbons. Approximately three feet of soil was removed from the waste pit and surrounding area.

Excavation of piping, fuel lines, and fuel pumps at SWMU 0-031(b) was initiated in early May. Organic vapors detected during field screening suggested the release of organic constituents from a distribution line beneath one of the fuel pumps and from an auxiliary fill port. Shallow excavations and a drilling program were initiated to delineate the extent of subsurface contamination associated with the two releases. Results received to date for chemical analyses of samples taken from excavation soils and borehole cores are presented in Table 2-1.

**SWMU 0-016.** An investigation of the area behind the former firing range and a new estimate of the soil to be processed revealed the presence of an additional 8,000 $yds^3$ of lead-contaminated soil. This material will be removed and processed next quarter. Other activities included soil-washing activities initiated at the inactive firing range; of the estimated 10,000 $yds^3$ of lead-contaminated soil, nearly 2,000 $yds^3$ has been processed. The average lead, copper, and zinc concentrations in the processed soil have been 94 ppm, 5.2 ppm, and 20.3 ppm, respectively. All of the soil processed to date has been removed from the SWMU and used as road base on a local construction operation. Results received to date are presented in Table 2-1 for chemical analyses of samples taken for background, samples from the area investigated behind the former firing range, and processed soil samples.

**SWMU Group 73-1.** A surface radiological survey was conducted at the airport landfill; no elevated radiation levels were encountered. Geodetic surveying of the airplane hangars, buried trenches, and geophysical/soil gas survey grids was completed. The surface geophysical survey was initiated at the airport landfill. The magnetic survey has been completed.

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **00-016** | | | | | | | | | | | | |
| 1 | Copper | 7 | 7 | 3.3 | 7.2 | 3,000 | mg/kg | | | | | 7 | |
| 2 | Lead | 7 | 7 | 11 | 65 | 500 | mg/kg | | | | | 7 | |
| 3 | Zinc | 7 | 7 | 18 | 41 | 24,000 | mg/kg | | | | | 7 | |
| | **00-030(c)** | | | | | | | | | | | | |
| 4 | Acenaphthene | 12 | | | | 4,800 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 5 | Acenaphthylene | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 6 | Acetone | 12 | 8 | 0.032 | 0.26 | 8,000 | mg/kg | 4 | 0.02 | 0.02 | | 12 | |
| 7 | Aldrin | 12 | | | | | mg/kg | 12 | 0.002 | 0.002 | | | |
| 8 | Americium-241 | 12 | 8 | 0.003 | 0.039 | 22 | pCi/g | 4 | 0.183 | 1.37 | | 12 | |
| 9 | Aniline | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 10 | Anthracene | 12 | | | | 24,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 11 | Antimony | 13 | | | | 32 | mg/kg | 13 | 0.1 | 0.3 | | 13 | |
| 12 | Aroclor 1016 | 12 | | | | | mg/kg | 12 | 0.034 | 0.0381 | | | |
| 13 | Aroclor 1221 | 12 | | | | | mg/kg | 12 | 0.069 | 0.0774 | | | |
| 14 | Aroclor 1232 | 12 | | | | | mg/kg | 12 | 0.034 | 0.0381 | | | |
| 15 | Aroclor 1242 | 24 | | | | | mg/kg | 24 | 0.034 | 0.276 | | | |
| 16 | Aroclor 1248 | 12 | | | | | mg/kg | 12 | 0.034 | 0.0381 | | | |
| 17 | Aroclor 1254 | 24 | 1 | 0.251 | 0.251 | | mg/kg | 23 | 0.034 | 0.276 | | | |
| 18 | Aroclor 1260 | 24 | | | | | mg/kg | 24 | 0.034 | 0.276 | | | |
| 19 | Aroclor [Mixed-] | 12 | 1 | 0.251 | 0.251 | 0.09 | mg/kg | 11 | 0.2267 | 0.276 | 1 | | 11 |
| 20 | Arsenic | 12 | 12 | 0.6 | 3.4 | 0.4 | mg/kg | | | | 12 | | |
| 21 | Azobenzene | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 22 | BHC [alpha-] | 12 | | | | 0.1 | mg/kg | 12 | 0.0018 | 0.00196 | | 12 | |
| 23 | BHC [beta-] | 12 | | | | 4 | mg/kg | 12 | 0.0018 | 0.00196 | | 12 | |
| 24 | BHC [delta-] | 12 | | | | | mg/kg | 12 | 0.0018 | 0.00196 | | | |
| 25 | Barium | 13 | 13 | 11 | 140 | 5,600 | mg/kg | | | | | 13 | |
| 26 | Benzene | 12 | | | | 0.67 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 27 | Benzidine [m-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 28 | Benzo[a]anthracene | 12 | | | | 0.64 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 29 | Benzo[a]pyrene | 12 | | | | 0.1 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 30 | Benzo[b]fluoranthene | 12 | | | | 0.7 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 31 | Benzo[g,h,i]perylene | 12 | | | | 44 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 32 | Benzo[k]fluoranthene | 12 | | | | 1.5 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 33 | Benzoic acid | 12 | | | | 320,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34 | Benzyl alcohol | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 35 | Beryllium | 13 | 13 | 0.2 | 0.99 | 0.16 | mg/kg | | | | 13 | | |
| 36 | Bis(2-chloroethoxy)methane | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 37 | Bis(2-chloroethyl)ether | 12 | | | | 0.12 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 38 | Bis(2-chloroisopropyl)ether | 12 | | | | 100 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 39 | Bis(2-ethylhexyl)phthalate | 12 | | | | 50 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 40 | Bromobenzene | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 41 | Bromochloromethane | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 42 | Bromodichloromethane | 12 | | | | 11 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 43 | Bromoform | 12 | | | | 89 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 44 | Bromomethane | 12 | | | | 0.43 | mg/kg | 12 | 0.01 | 0.01 | | 12 | |
| 45 | Bromophenylphenyl ether [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 46 | Butanone [2-] | 12 | | | | 4,000 | mg/kg | 12 | 0.02 | 0.046 | | 12 | |
| 47 | Butyl benzyl phthalate | 12 | | | | 16,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 48 | Butylbenzene [n-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 49 | Butylbenzene [sec-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 50 | Butylbenzene [tert-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 51 | Cadmium | 13 | 2 | 0.3 | 0.63 | 80 | mg/kg | 11 | 0.4 | 0.4 | | 13 | |
| 52 | Carbon disulfide | 12 | | | | 7.4 | mg/kg | 12 | 0.005 | 0.0079 | | 12 | |
| 53 | Carbon tetrachloride | 12 | | | | 0.21 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 54 | Chlordane [alpha-] | 12 | | | | | mg/kg | 12 | 0.0018 | 0.00196 | | | |
| 55 | Chlordane [gamma-] | 12 | | | | | mg/kg | 12 | 0.0018 | 0.00196 | | | |
| 56 | Chloro-3-methylphenol [4-] | 12 | | | | 16,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 57 | Chloroaniline [4-] | 12 | | | | 320 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 58 | Chlorobenzene | 12 | | | | 67 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 59 | Chlorodibromomethane | 12 | | | | 83 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 60 | Chloroethane | 12 | | | | 3,300 | mg/kg | 12 | 0.01 | 0.01 | | 12 | |
| 61 | Chloroform | 12 | | | | 0.21 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 62 | Chloromethane | 12 | | | | 6.4 | mg/kg | 12 | 0.01 | 0.01 | | 12 | |
| 63 | Chloronaphthalene [2-] | 12 | | | | 6,400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 64 | Chlorophenol [o-] | 12 | | | | 400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 65 | Chlorophenylphenyl ether [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 66 | Chlorotoluene [o-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 67 | Chlorotoluene [p-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 68 | Chromium | 13 | 13 | 2.6 | 9.3 | 400 | mg/kg | | | | | 13 | |
| 69 | Chrysene | 12 | | | | 22 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 70 | DDD [p,p'-] | 12 | 8 | 0.00863 | 2.71 | 2.9 | mg/kg | 4 | 0.0034 | 0.0035 | | 12 | |
| 71 | DDE [p,p'-] | 12 | 7 | 0.0393 | 0.577 | | mg/kg | 5 | 0.0034 | 0.00371 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 72 | DDT [p,p'-] | 12 | 8 | 0.0391 | 0.648 | 2.1 | mg/kg | 4 | 0.0034 | 0.0035 | | 12 | |
| 73 | Di-n-butyl phthalate | 12 | | | | 8,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 74 | Di-n-octyl phthalate | 12 | | | | 1,600 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 75 | Dibenzo[a,h]anthracene | 12 | | | | 0.086 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 76 | Dibenzofuran | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 77 | Dibromo-3-chloropropane [1,2-] | 12 | | | | | mg/kg | 12 | 0.01 | 0.01 | | | |
| 78 | Dibromoethane [1,2-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 79 | Dibromomethane | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 80 | Dichlorobenzene (1,2) [o-] | 24 | | | | 1,600 | mg/kg | 24 | 0.005 | 0.33 | | 24 | |
| 81 | Dichlorobenzene (1,3) [m-] | 24 | | | | 7,200 | mg/kg | 24 | 0.005 | 0.33 | | 24 | |
| 82 | Dichlorobenzene (1,4) [p-] | 24 | | | | 290 | mg/kg | 24 | 0.005 | 0.33 | | 24 | |
| 83 | Dichlorobenzidine [3,3'-] | 12 | | | | 1.6 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 84 | Dichlorodifluoromethane | 12 | | | | | mg/kg | 12 | 0.01 | 0.01 | | | |
| 85 | Dichloroethane [1,1-] | 12 | | | | 410 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 86 | Dichloroethane [1,2-] | 12 | | | | 0.2 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 87 | Dichloroethene [1,1-] | 12 | | | | 0.4 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 88 | Dichloroethene [trans-1,2-] | 12 | | | | 1,600 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 89 | Dichloroethylene [cis-1,2-] | 12 | | | | 800 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 90 | Dichlorophenol [2,4-] | 12 | | | | 240 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 91 | Dichloropropane [1,2-] | 12 | | | | 6.5 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 92 | Dichloropropane [1,3-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 93 | Dichloropropane [2,2-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 94 | Dichloropropene [1,1-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 95 | Dichloropropene [cis-1,3-] | 12 | | | | 0.17 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 96 | Dichloropropene [trans-1,3-] | 12 | | | | 0.17 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 97 | Dieldrin | 12 | | | | | mg/kg | 12 | 0.0034 | 0.00381 | | | |
| 98 | Diethyl phthalate | 12 | | | | 64,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 99 | Dimethyl phthalate | 12 | | | | 800,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 100 | Dimethylphenol [2,4-] | 12 | | | | 1,600 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 101 | Dinitrophenol [2,4-] | 12 | | | | 160 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 102 | Dinitrotoluene [2,4-] | 12 | | | | 1 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 103 | Dinitrotoluene [2,6-] | 12 | | | | 1 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 104 | Endosulfan I | 12 | | | | | mg/kg | 12 | 0.0018 | 0.00196 | | | |
| 105 | Endosulfan II | 12 | | | | | mg/kg | 12 | 0.0034 | 0.00381 | | | |
| 106 | Endosulfan sulfate | 12 | | | | | mg/kg | 12 | 0.0034 | 0.00381 | | | |
| 107 | Endrin | 12 | 1 | 0.0743 | 0.0743 | | mg/kg | 11 | 0.0034 | 0.00381 | | | |
| 108 | Endrin aldehyde | 12 | 2 | 0.00534 | 0.0122 | | mg/kg | 10 | 0.0034 | 0.00374 | | | |
| 109 | Endrin ketone | 12 | | | | | mg/kg | 12 | 0.0034 | 0.00381 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | Ethylbenzene | 12 | | | | 3,100 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 111 | Fluoranthene | 12 | | | | 3,200 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 112 | Fluorene | 12 | | | | 3,200 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 113 | Heptachlor | 12 | | | | | mg/kg | 12 | 0.0018 | 0.00196 | | | |
| 114 | Heptachlor epoxide | 12 | 1 | 0.00319 | 0.0032 | | mg/kg | 11 | 0.0018 | 0.00192 | | | |
| 115 | Hexachlorobenzene | 12 | | | | 0.44 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 116 | Hexachlorobutadiene | 12 | | | | 90 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 117 | Hexachlorocyclopentadiene | 12 | | | | 560 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 118 | Hexachloroethane | 12 | | | | 80 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 119 | Hexanone [2-] | 12 | | | | | mg/kg | 12 | 0.02 | 0.02 | | | |
| 120 | Indeno[1,2,3-cd]pyrene | 12 | | | | 0.41 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 121 | Isophorone | 12 | | | | 7,400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 122 | Isopropylbenzene | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 123 | Isopropyltoluene [4-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 124 | Lead | 13 | 13 | 3.3 | 31 | 500 | mg/kg | | | | | 13 | |
| 125 | Lindane | 12 | | | | | mg/kg | 12 | 0.0018 | 0.00196 | | | |
| 126 | Mercury | 36 | 16 | 0.1 | 0.6 | 24 | mg/kg | 20 | 0.1 | 0.1 | | 36 | |
| 127 | Methoxychlor | 12 | | | | | mg/kg | 12 | 0.018 | 0.0196 | | | |
| 128 | Methyl iodide | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 129 | Methyl-2-pentanone [4-] | 12 | | | | 510 | mg/kg | 12 | 0.02 | 0.02 | | 12 | |
| 130 | Methyl-4,6-dinitrophenol [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 131 | Methylene chloride | 12 | | | | 5.6 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 132 | Methylnaphthalene [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 133 | Methylphenol [2-] | 12 | | | | 4,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 134 | Methylphenol [4-] | 12 | | | | 400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 135 | Naphthalene | 12 | | | | 3,200 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 136 | Nickel | 13 | 12 | 2.6 | 8.3 | 1,600 | mg/kg | 1 | 2 | 2 | | 13 | |
| 137 | Nitroaniline [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 138 | Nitroaniline [3-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 139 | Nitroaniline [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 140 | Nitrobenzene | 12 | | | | 5.3 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 141 | Nitrophenol [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 142 | Nitrophenol [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 143 | Nitrosodi-n-propylamine [N-] | 12 | | | | 0.1 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 144 | Nitrosodimethylamine [N-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 145 | Nitrosodiphenylamine [N-] | 12 | | | | 140 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 146 | Pentachlorophenol | 12 | | | | 5.8 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 147 | Phenanthrene | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 148 | Phenol | 12 | | | | 48,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 149 | Plutonium-238 | 13 | 3 | 0.03 | 1.53 | 27 | pCi/g | 10 | 0.01 | 0.01 | | 13 | |
| 150 | Plutonium-239 | 13 | 11 | 0.05 | 1.81 | 24 | pCi/g | 2 | 0.01 | 0.01 | | 13 | |
| 151 | Propylbenzene | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 152 | Pyrene | 12 | | | | 2,400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 153 | Selenium | 11 | 8 | 0.3 | 0.4 | 400 | mg/kg | 3 | 0.2 | 0.3 | | 11 | |
| 154 | Silver | 13 | | | | 400 | mg/kg | 13 | 1 | 1 | | 13 | |
| 155 | Styrene | 12 | | | | 16,000 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 156 | Tetrachloroethane [1,1,1,2-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 157 | Tetrachloroethane [1,1,2,2-] | 12 | | | | 3.9 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 158 | Tetrachloroethylene | 12 | | | | 5.9 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 159 | Thallium | 13 | 1 | 0.1 | 0.1 | 6.4 | mg/kg | 12 | 0.1 | 0.3 | | 13 | |
| 160 | Toluene | 12 | | | | 890 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 161 | Toxaphene | 12 | | | | | mg/kg | 12 | 0.18 | 0.196 | | | |
| 162 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 163 | Trichlorobenzene [1,2,4-] | 12 | | | | 160 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 164 | Trichloroethane [1,1,1-] | 12 | | | | 1,000 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 165 | Trichloroethane [1,1,2-] | 12 | | | | 6.3 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 166 | Trichloroethene | 12 | | | | 3.2 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| 167 | Trichlorofluoromethane | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 168 | Trichlorophenol [2,4,5-] | 12 | | | | 8,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 169 | Trichlorophenol [2,4,6-] | 12 | | | | 64 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 170 | Trichloropropane [1,2,3-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 171 | Trimethylbenzene [1,2,4-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 172 | Trimethylbenzene [1,3,5-] | 12 | | | | | mg/kg | 12 | 0.005 | 0.005 | | | |
| 173 | Uranium | 12 | 12 | 0.398 | 4.1 | | mg/kg | | | | | | |
| 174 | Vinyl chloride | 12 | | | | 0.012 | mg/kg | 12 | 0.01 | 0.01 | | 12 | |
| 175 | Xylenes (o + m + p) [Mixed-] | 12 | | | | 160,000 | mg/kg | 12 | 0.005 | 0.005 | | 12 | |
| | **00-030(f)** | | | | | | | | | | | | |
| 176 | Acenaphthene | 6 | | | | 4,800 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 177 | Acenaphthylene | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 178 | Acetone | 5 | 5 | 0.056 | 0.57 | 8,000 | mg/kg | | | | | 5 | |
| 179 | Aldrin | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 180 | Americium-241 | 7 | | | | 22 | pCi/g | 7 | 0.156 | 1.56 | | 7 | |
| 181 | Aniline | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 182 | Anthracene | 6 | | | | 24,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 183 | Antimony | 6 | | | | 32 | mg/kg | 6 | 0.3 | 0.3 | | 6 | |
| 184 | Aroclor 1016 | 6 | | | | | mg/kg | 6 | 0.037 | 0.039 | | | |
| 185 | Aroclor 1221 | 6 | | | | | mg/kg | 6 | 0.076 | 0.08 | | | |
| 186 | Aroclor 1232 | 6 | | | | | mg/kg | 6 | 0.037 | 0.039 | | | |
| 187 | Aroclor 1242 | 12 | | | | | mg/kg | 12 | 0.037 | 0.3038 | | | |
| 188 | Aroclor 1248 | 6 | | | | | mg/kg | 6 | 0.037 | 0.039 | | | |
| 189 | Aroclor 1254 | 12 | | | | | mg/kg | 12 | 0.037 | 0.3038 | | | |
| 190 | Aroclor 1260 | 12 | | | | | mg/kg | 12 | 0.037 | 0.3038 | | | |
| 191 | Aroclor [Mixed-] | 6 | | | | 0.09 | mg/kg | 6 | 0.2674 | 0.3038 | | | 6 |
| 192 | Arsenic | 6 | 6 | 1.7 | 2.9 | 0.4 | mg/kg | | | | 6 | | |
| 193 | Azobenzene | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 194 | BHC [alpha-] | 6 | | | | 0.1 | mg/kg | 6 | 0.0019 | 0.002 | | 6 | |
| 195 | BHC [beta-] | 6 | | | | 4 | mg/kg | 6 | 0.0019 | 0.002 | | 6 | |
| 196 | BHC [delta-] | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 197 | Barium | 7 | 7 | 48 | 120 | 5,600 | mg/kg | | | | | 7 | |
| 198 | Benzene | 5 | | | | 0.67 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 199 | Benzidine [m-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 200 | Benzo[a]anthracene | 6 | | | | 0.64 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 201 | Benzo[a]pyrene | 6 | | | | 0.1 | mg/kg | 6 | 0.33 | 0.33 | | | 6 |
| 202 | Benzo[b]fluoranthene | 6 | | | | 0.7 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 203 | Benzo[g,h,i]perylene | 6 | | | | 44 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 204 | Benzo[k]fluoranthene | 6 | | | | 1.5 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 205 | Benzoic acid | 6 | | | | 320,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 206 | Benzyl alcohol | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 207 | Beryllium | 7 | 7 | 0.5 | 0.85 | 0.16 | mg/kg | | | | 7 | | |
| 208 | Bis(2-chloroethoxy)methane | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 209 | Bis(2-chloroethyl)ether | 6 | | | | 0.12 | mg/kg | 6 | 0.33 | 0.33 | | | 6 |
| 210 | Bis(2-chloroisopropyl)ether | 6 | | | | 100 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 211 | Bis(2-ethylhexyl)phthalate | 6 | | | | 50 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 212 | Bromobenzene | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 213 | Bromochloromethane | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 214 | Bromodichloromethane | 5 | | | | 11 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 215 | Bromoform | 5 | | | | 89 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 216 | Bromomethane | 5 | | | | 0.43 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 217 | Bromophenylphenyl ether [4-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 218 | Butanone [2-] | 5 | | | | 4,000 | mg/kg | 5 | 0.02 | 0.02 | | 5 | |
| 219 | Butyl benzyl phthalate | 6 | | | | 16,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 220 | Butylbenzene [n-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 Butylbenzene [sec-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 222 Butylbenzene [tert-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 223 Cadmium | 7 | 6 | 0.25 | 2.4 | 80 | mg/kg | 1 | 0.6 | 0.6 | | 7 | |
| 224 Carbon disulfide | 5 | | | | 7.4 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 225 Carbon tetrachloride | 5 | | | | 0.21 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 226 Chlordane [alpha-] | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 227 Chlordane [gamma-] | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 228 Chloro-3-methylphenol [4-] | 6 | | | | 16,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 229 Chloroaniline [4-] | 6 | | | | 320 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 230 Chlorobenzene | 5 | | | | 67 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 231 Chlorodibromomethane | 5 | | | | 83 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 232 Chloroethane | 5 | | | | 3,300 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 233 Chloroform | 5 | | | | 0.21 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 234 Chloromethane | 5 | | | | 6.4 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 235 Chloronaphthalene [2-] | 6 | | | | 6,400 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 236 Chlorophenol [o-] | 6 | | | | 400 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 237 Chlorophenylphenyl ether [4-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 238 Chlorotoluene [o-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 239 Chlorotoluene [p-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 240 Chromium | 7 | 7 | 4.2 | 8.7 | 400 | mg/kg | | | | | 7 | |
| 241 Chrysene | 6 | | | | 22 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 242 DDD [p,p'-] | 6 | 1 | 0.0073 | 0.0073 | 2.9 | mg/kg | 5 | 0.0037 | 0.0039 | | 6 | |
| 243 DDE [p,p'-] | 6 | 1 | 0.036 | 0.036 | | mg/kg | 5 | 0.0037 | 0.0039 | | | |
| 244 DDT [p,p'-] | 6 | 1 | 0.024 | 0.024 | 2.1 | mg/kg | 5 | 0.0037 | 0.0039 | | 6 | |
| 245 Di-n-butyl phthalate | 6 | | | | 8,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 246 Di-n-octyl phthalate | 6 | | | | 1,600 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 247 Dibenzo[a,h]anthracene | 6 | | | | 0.086 | mg/kg | 6 | 0.33 | 0.33 | | | 6 |
| 248 Dibenzofuran | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 249 Dibromo-3-chloropropane [1,2-] | 5 | | | | | mg/kg | 5 | 0.01 | 0.01 | | | |
| 250 Dibromoethane [1,2-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 251 Dibromomethane | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 252 Dichlorobenzene (1,2) [o-] | 11 | | | | 1,600 | mg/kg | 11 | 0.005 | 0.33 | | 11 | |
| 253 Dichlorobenzene (1,3) [m-] | 11 | | | | 7,200 | mg/kg | 11 | 0.005 | 0.33 | | 11 | |
| 254 Dichlorobenzene (1,4) [p-] | 11 | | | | 290 | mg/kg | 11 | 0.005 | 0.33 | | 11 | |
| 255 Dichlorobenzidine [3,3'-] | 6 | | | | 1.6 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 256 Dichlorodifluoromethane | 5 | | | | | mg/kg | 5 | 0.01 | 0.01 | | | |
| 257 Dichloroethane [1,1-] | 5 | | | | 410 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 258 Dichloroethane [1,2-] | 5 | | | | 0.2 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 259 | Dichloroethene [1,1-] | 5 | | | | 0.4 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 260 | Dichloroethene [trans-1,2-] | 5 | | | | 1,600 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 261 | Dichloroethylene [cis-1,2-] | 5 | | | | 800 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 262 | Dichlorophenol [2,4-] | 6 | | | | 240 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 263 | Dichloropropane [1,2-] | 5 | | | | 6.5 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 264 | Dichloropropane [1,3-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 265 | Dichloropropane [2,2-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 266 | Dichloropropene [1,1-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 267 | Dichloropropene [cis-1,3-] | 5 | | | | 0.17 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 268 | Dichloropropene [trans-1,3-] | 5 | | | | 0.17 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 269 | Dieldrin | 6 | | | | | mg/kg | 6 | 0.0037 | 0.0039 | | | |
| 270 | Diethyl phthalate | 6 | | | | 64,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 271 | Dimethyl phthalate | 6 | | | | 800,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 272 | Dimethylphenol [2,4-] | 6 | | | | 1,600 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 273 | Dinitrophenol [2,4-] | 6 | | | | 160 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 274 | Dinitrotoluene [2,4-] | 6 | | | | 1 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 275 | Dinitrotoluene [2,6-] | 6 | | | | 1 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 276 | Endosulfan I | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 277 | Endosulfan II | 6 | | | | | mg/kg | 6 | 0.0037 | 0.0039 | | | |
| 278 | Endosulfan sulfate | 6 | | | | | mg/kg | 6 | 0.0037 | 0.0039 | | | |
| 279 | Endrin | 6 | | | | | mg/kg | 6 | 0.0037 | 0.0039 | | | |
| 280 | Endrin aldehyde | 6 | | | | | mg/kg | 6 | 0.0037 | 0.0039 | | | |
| 281 | Endrin ketone | 6 | | | | | mg/kg | 6 | 0.0037 | 0.0039 | | | |
| 282 | Ethylbenzene | 5 | | | | 3,100 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 283 | Fluoranthene | 6 | | | | 3,200 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 284 | Fluorene | 6 | | | | 3,200 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 285 | Heptachlor | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 286 | Heptachlor epoxide | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 287 | Hexachlorobenzene | 6 | | | | 0.44 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 288 | Hexachlorobutadiene | 6 | | | | 90 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 289 | Hexachlorocyclopentadiene | 6 | | | | 560 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 290 | Hexachloroethane | 6 | | | | 80 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 291 | Hexanone [2-] | 5 | | | | | mg/kg | 5 | 0.02 | 0.02 | | | |
| 292 | Indeno[1,2,3-cd]pyrene | 6 | | | | 0.41 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 293 | Isophorone | 6 | | | | 7,400 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 294 | Isopropylbenzene | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 295 | Isopropyltoluene [4-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 296 | Lead | 6 | 6 | 9.6 | 56 | 500 | mg/kg | | | | | 6 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 297 | Lindane | 6 | | | | | mg/kg | 6 | 0.0019 | 0.002 | | | |
| 298 | Mercury | 18 | | | | 24 | mg/kg | 18 | 0.1 | 0.1 | | 18 | |
| 299 | Methoxychlor | 6 | | | | | mg/kg | 6 | 0.019 | 0.02 | | | |
| 300 | Methyl iodide | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 301 | Methyl-2-pentanone [4-] | 5 | | | | 510 | mg/kg | 5 | 0.02 | 0.02 | | 5 | |
| 302 | Methyl-4,6-dinitrophenol [2-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 303 | Methylene chloride | 5 | | | | 5.6 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 304 | Methylnaphthalene [2-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 305 | Methylphenol [2-] | 6 | | | | 4,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 306 | Methylphenol [4-] | 6 | | | | 400 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 307 | Naphthalene | 6 | | | | 3,200 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 308 | Nickel | 7 | 7 | 3.4 | 7 | 1,600 | mg/kg | | | | | 7 | |
| 309 | Nitroaniline [2-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 310 | Nitroaniline [3-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 311 | Nitroaniline [4-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 312 | Nitrobenzene | 6 | | | | 5.3 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 313 | Nitrophenol [2-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 314 | Nitrophenol [4-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 315 | Nitrosodi-n-propylamine [N-] | 6 | | | | 0.1 | mg/kg | 6 | 0.33 | 0.33 | | | 6 |
| 316 | Nitrosodimethylamine [N-] | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 317 | Nitrosodiphenylamine [N-] | 6 | | | | 140 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 318 | Pentachlorophenol | 6 | | | | 5.8 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 319 | Phenanthrene | 6 | | | | | mg/kg | 6 | 0.33 | 0.33 | | | |
| 320 | Phenol | 6 | | | | 48,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 321 | Plutonium-238 | 6 | 4 | 0.02 | 0.0802 | 27 | pCi/g | 2 | 0.01 | 0.01 | | 6 | |
| 322 | Plutonium-239 | 6 | 2 | 0.04 | 0.103 | 24 | pCi/g | 4 | 0.01 | 0.01 | | 6 | |
| 323 | Propylbenzene | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 324 | Pyrene | 6 | | | | 2,400 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 325 | Selenium | 6 | 5 | 0.3 | 0.4 | 400 | mg/kg | 1 | 0.2 | 0.2 | | 6 | |
| 326 | Silver | 7 | 1 | 6 | 6 | 400 | mg/kg | 6 | 1.6 | 1.6 | | 7 | |
| 327 | Styrene | 5 | | | | 16,000 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 328 | Tetrachloroethane [1,1,1,2-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 329 | Tetrachloroethane [1,1,2,2-] | 5 | | | | 3.9 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 330 | Tetrachloroethylene | 5 | | | | 5.9 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 331 | Thallium | 6 | | | | 6.4 | mg/kg | 6 | 0.3 | 0.3 | | 6 | |
| 332 | Toluene | 5 | | | | 890 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 333 | Toxaphene | 6 | | | | | mg/kg | 6 | 0.19 | 0.2 | | | |
| 334 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 5 | 1 | 0.27 | 0.27 | | mg/kg | 4 | 0.005 | 0.005 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 335 | Trichlorobenzene [1,2,4-] | 6 | | | | 160 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 336 | Trichloroethane [1,1,1-] | 5 | | | | 1,000 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 337 | Trichloroethane [1,1,2-] | 5 | | | | 6.3 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 338 | Trichloroethene | 5 | | | | 3.2 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 339 | Trichlorofluoromethane | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 340 | Trichlorophenol [2,4,5-] | 6 | | | | 8,000 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 341 | Trichlorophenol [2,4,6-] | 6 | | | | 64 | mg/kg | 6 | 0.33 | 0.33 | | 6 | |
| 342 | Trichloropropane [1,2,3-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 343 | Trimethylbenzene [1,2,4-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 344 | Trimethylbenzene [1,3,5-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 345 | Uranium | 6 | 6 | 2,400 | 5,300 | | mg/kg | | | | | | |
| 346 | Vinyl chloride | 5 | | | | 0.012 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 347 | Xylenes (o + m + p) [Mixed-] | 5 | | | | 160,000 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| | **00-030(g)** | | | | | | | | | | | | |
| 348 | Acenaphthene | 2 | | | | 4,800 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 349 | Acenaphthylene | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 350 | Acetone | 2 | 1 | 0.022 | 0.022 | 8,000 | mg/kg | 1 | 0.02 | 0.02 | | 2 | |
| 351 | Aldrin | 2 | | | | | mg/kg | 2 | 0.002 | 0.002 | | | |
| 352 | Americium-241 | 3 | 3 | 2.108 | 7.668 | 22 | pCi/g | | | | | 3 | |
| 353 | Aniline | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 354 | Anthracene | 2 | | | | 24,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 355 | Antimony | 3 | | | | 32 | mg/kg | 3 | 0.1 | 0.1 | | 3 | |
| 356 | Aroclor 1016 | 2 | | | | | mg/kg | 2 | 0.0383 | 0.0389 | | | |
| 357 | Aroclor 1221 | 2 | | | | | mg/kg | 2 | 0.0777 | 0.079 | | | |
| 358 | Aroclor 1232 | 2 | | | | | mg/kg | 2 | 0.038 | 0.0383 | | | |
| 359 | Aroclor 1242 | 4 | | | | | mg/kg | 4 | 0.038 | 0.2816 | | | |
| 360 | Aroclor 1248 | 2 | | | | | mg/kg | 2 | 0.038 | 0.0383 | | | |
| 361 | Aroclor 1254 | 4 | 2 | 0.297 | 1.07 | | mg/kg | 2 | 0.2757 | 0.2816 | | | |
| 362 | Aroclor 1260 | 4 | 1 | 0.71 | 0.71 | | mg/kg | 3 | 0.038 | 0.2757 | | | |
| 363 | Aroclor [Mixed-] | 2 | 1 | 0.71 | 0.71 | 0.09 | mg/kg | 1 | 0.2757 | 0.2757 | 1 | | 1 |
| 364 | Arsenic | 3 | 3 | 1.4 | 2 | 0.4 | mg/kg | | | | 3 | | |
| 365 | Azobenzene | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 366 | BHC [alpha-] | 2 | | | | 0.1 | mg/kg | 2 | 0.002 | 0.002 | | 2 | |
| 367 | BHC [beta-] | 2 | | | | 4 | mg/kg | 2 | 0.002 | 0.002 | | 2 | |
| 368 | BHC [delta-] | 2 | | | | | mg/kg | 2 | 0.002 | 0.002 | | | |
| 369 | Barium | 2 | 2 | 61 | 63 | 5,600 | mg/kg | | | | | 2 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 370 | Benzene | 2 | | | | 0.67 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 371 | Benzidine [m-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 372 | Benzo[a]anthracene | 2 | | | | 0.64 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 373 | Benzo[a]pyrene | 2 | | | | 0.1 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 374 | Benzo[b]fluoranthene | 2 | | | | 0.7 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 375 | Benzo[g,h,i]perylene | 2 | | | | 44 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 376 | Benzo[k]fluoranthene | 2 | | | | 1.5 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 377 | Benzoic acid | 2 | | | | 320,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 378 | Benzyl alcohol | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 379 | Beryllium | 2 | 2 | 0.4 | 0.58 | 0.16 | mg/kg | | | | 2 | | |
| 380 | Bis(2-chloroethoxy)methane | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 381 | Bis(2-chloroethyl)ether | 2 | | | | 0.12 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 382 | Bis(2-chloroisopropyl)ether | 2 | | | | 100 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 383 | Bis(2-ethylhexyl)phthalate | 2 | | | | 50 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 384 | Bromobenzene | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 385 | Bromochloromethane | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 386 | Bromodichloromethane | 2 | | | | 11 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 387 | Bromoform | 2 | | | | 89 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 388 | Bromomethane | 2 | | | | 0.43 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 389 | Bromophenylphenyl ether [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 390 | Butanone [2-] | 2 | | | | 4,000 | mg/kg | 2 | 0.031 | 0.038 | | 2 | |
| 391 | Butyl benzyl phthalate | 2 | | | | 16,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 392 | Butylbenzene [n-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 393 | Butylbenzene [sec-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 394 | Butylbenzene [tert-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 395 | Cadmium | 2 | | | | 80 | mg/kg | 2 | 0.4 | 0.4 | | 2 | |
| 396 | Carbon disulfide | 2 | | | | 7.4 | mg/kg | 2 | 0.0058 | 0.0099 | | 2 | |
| 397 | Carbon tetrachloride | 2 | | | | 0.21 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 398 | Chlordane [alpha-] | 2 | 2 | 0.0087 | 0.0274 | | mg/kg | | | | | | |
| 399 | Chlordane [gamma-] | 2 | 2 | 0.0023 | 0.0122 | | mg/kg | | | | | | |
| 400 | Chloro-3-methylphenol [4-] | 2 | | | | 16,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 401 | Chloroaniline [4-] | 2 | | | | 320 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 402 | Chlorobenzene | 2 | | | | 67 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 403 | Chlorodibromomethane | 2 | | | | 83 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 404 | Chloroethane | 2 | | | | 3,300 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 405 | Chloroform | 2 | | | | 0.21 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 406 | Chloromethane | 2 | | | | 6.4 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 407 | Chloronaphthalene [2-] | 2 | | | | 6,400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 408 | Chlorophenol [o-] | 2 | | | | 400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 409 | Chlorophenylphenyl ether [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 410 | Chlorotoluene [o-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 411 | Chlorotoluene [p-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 412 | Chromium | 2 | 2 | 2.9 | 5.5 | 400 | mg/kg | | | | | 2 | |
| 413 | Chrysene | 2 | | | | 22 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 414 | DDD [p,p'-] | 2 | 2 | 0.00448 | 0.0108 | 2.9 | mg/kg | | | | | 2 | |
| 415 | DDE [p,p'-] | 2 | 1 | 0.00626 | 0.0063 | | mg/kg | 1 | 0.0039 | 0.0039 | | | |
| 416 | DDT [p,p'-] | 2 | 2 | 0.0196 | 0.0387 | 2.1 | mg/kg | | | | | 2 | |
| 417 | Di-n-butyl phthalate | 2 | | | | 8,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 418 | Di-n-octyl phthalate | 2 | | | | 1,600 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 419 | Dibenzo[a,h]anthracene | 2 | | | | 0.086 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 420 | Dibenzofuran | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 421 | Dibromo-3-chloropropane [1,2-] | 2 | | | | | mg/kg | 2 | 0.01 | 0.01 | | | |
| 422 | Dibromoethane [1,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 423 | Dibromomethane | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 424 | Dichlorobenzene (1,2) [o-] | 4 | | | | 1,600 | mg/kg | 4 | 0.005 | 0.33 | | 4 | |
| 425 | Dichlorobenzene (1,3) [m-] | 4 | | | | 7,200 | mg/kg | 4 | 0.005 | 0.33 | | 4 | |
| 426 | Dichlorobenzene (1,4) [p-] | 4 | | | | 290 | mg/kg | 4 | 0.005 | 0.33 | | 4 | |
| 427 | Dichlorobenzidine [3,3'-] | 2 | | | | 1.6 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 428 | Dichlorodifluoromethane | 2 | | | | | mg/kg | 2 | 0.01 | 0.01 | | | |
| 429 | Dichloroethane [1,1-] | 2 | | | | 410 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 430 | Dichloroethane [1,2-] | 2 | | | | 0.2 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 431 | Dichloroethene [1,1-] | 2 | | | | 0.4 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 432 | Dichloroethene [trans-1,2-] | 2 | | | | 1,600 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 433 | Dichloroethylene [cis-1,2-] | 2 | | | | 800 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 434 | Dichlorophenol [2,4-] | 2 | | | | 240 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 435 | Dichloropropane [1,2-] | 2 | | | | 6.5 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 436 | Dichloropropane [1,3-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 437 | Dichloropropane [2,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 438 | Dichloropropene [1,1-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 439 | Dichloropropene [cis-1,3-] | 2 | | | | 0.17 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 440 | Dichloropropene [trans-1,3-] | 2 | | | | 0.17 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 441 | Dieldrin | 2 | 2 | 0.00784 | 0.0439 | | mg/kg | | | | | | |
| 442 | Diethyl phthalate | 2 | | | | 64,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 443 | Dimethyl phthalate | 2 | | | | 800,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 444 | Dimethylphenol [2,4-] | 2 | | | | 1,600 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 445 | Dinitrophenol [2,4-] | 2 | | | | 160 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 446 | Dinitrotoluene [2,4-] | 2 | | | | 1 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 447 | Dinitrotoluene [2,6-] | 2 | | | | 1 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 448 | Endosulfan I | 2 | | | | | mg/kg | 2 | 0.002 | 0.002 | | | |
| 449 | Endosulfan II | 2 | 2 | 0.00552 | 0.0211 | | mg/kg | | | | | | |
| 450 | Endosulfan sulfate | 2 | | | | | mg/kg | 2 | 0.0038 | 0.0039 | | | |
| 451 | Endrin | 2 | | | | | mg/kg | 2 | 0.0038 | 0.0039 | | | |
| 452 | Endrin aldehyde | 2 | 1 | 0.00866 | 0.0087 | | mg/kg | 1 | 0.0038 | 0.0038 | | | |
| 453 | Endrin ketone | 2 | | | | | mg/kg | 2 | 0.0038 | 0.0039 | | | |
| 454 | Ethylbenzene | 2 | | | | 3,100 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 455 | Fluoranthene | 2 | | | | 3,200 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 456 | Fluorene | 2 | | | | 3,200 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 457 | Heptachlor | 2 | | | | | mg/kg | 2 | 0.002 | 0.002 | | | |
| 458 | Heptachlor epoxide | 2 | | | | | mg/kg | 2 | 0.002 | 0.002 | | | |
| 459 | Hexachlorobenzene | 2 | | | | 0.44 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 460 | Hexachlorobutadiene | 2 | | | | 90 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 461 | Hexachlorocyclopentadiene | 2 | | | | 560 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 462 | Hexachloroethane | 2 | | | | 80 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 463 | Hexanone [2-] | 2 | | | | | mg/kg | 2 | 0.02 | 0.02 | | | |
| 464 | Indeno[1,2,3-cd]pyrene | 2 | | | | 0.41 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 465 | Isophorone | 2 | | | | 7,400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 466 | Isopropylbenzene | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 467 | Isopropyltoluene [4-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 468 | Lead | 3 | 3 | 11 | 22 | 500 | mg/kg | | | | | 3 | |
| 469 | Lindane | 2 | | | | | mg/kg | 2 | 0.002 | 0.002 | | | |
| 470 | Mercury | 6 | 6 | 0.1 | 0.2 | 24 | mg/kg | | | | | 6 | |
| 471 | Methoxychlor | 2 | | | | | mg/kg | 2 | 0.0197 | 0.02 | | | |
| 472 | Methyl iodide | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 473 | Methyl-2-pentanone [4-] | 2 | | | | 510 | mg/kg | 2 | 0.02 | 0.02 | | 2 | |
| 474 | Methyl-4,6-dinitrophenol [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 475 | Methylene chloride | 2 | | | | 5.6 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 476 | Methylnaphthalene [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 477 | Methylphenol [2-] | 2 | | | | 4,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 478 | Methylphenol [4-] | 2 | | | | 400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 479 | Naphthalene | 2 | | | | 3,200 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 480 | Nickel | 2 | 2 | 4.8 | 5.8 | 1,600 | mg/kg | | | | | 2 | |
| 481 | Nitroaniline [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 482 | Nitroaniline [3-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 483 | Nitroaniline [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 484 Nitrobenzene | 2 | | | | 5.3 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 485 Nitrophenol [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 486 Nitrophenol [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 487 Nitrosodi-n-propylamine [N-] | 2 | | | | 0.1 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 488 Nitrosodimethylamine [N-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 489 Nitrosodiphenylamine [N-] | 2 | | | | 140 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 490 Pentachlorophenol | 2 | | | | 5.8 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 491 Phenanthrene | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 492 Phenol | 2 | | | | 48,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 493 Plutonium-238 | 3 | 3 | 0.208 | 0.644 | 27 | pCi/g | | | | | 3 | |
| 494 Plutonium-239 | 3 | 3 | 11.48 | 35.116 | 24 | pCi/g | | | | 2 | 1 | |
| 495 Propylbenzene | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 496 Pyrene | 2 | | | | 2,400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 497 Selenium | 3 | 3 | 0.3 | 0.4 | 400 | mg/kg | | | | | 3 | |
| 498 Silver | 2 | | | | 400 | mg/kg | 2 | 1 | 1 | | 2 | |
| 499 Styrene | 2 | | | | 16,000 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 500 Tetrachloroethane [1,1,1,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 501 Tetrachloroethane [1,1,2,2-] | 2 | | | | 3.9 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 502 Tetrachloroethylene | 2 | | | | 5.9 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 503 Thallium | 3 | 1 | 0.3 | 0.3 | 6.4 | mg/kg | 2 | 0.1 | 0.1 | | 3 | |
| 504 Toluene | 2 | | | | 890 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 505 Toxaphene | 2 | | | | | mg/kg | 2 | 0.197 | 0.2 | | | |
| 506 Trichloro-1,2,2-trifluoroethane [1,1,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 507 Trichlorobenzene [1,2,4-] | 2 | | | | 160 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 508 Trichloroethane [1,1,1-] | 2 | | | | 1,000 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 509 Trichloroethane [1,1,2-] | 2 | | | | 6.3 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 510 Trichloroethene | 2 | | | | 3.2 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 511 Trichlorofluoromethane | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 512 Trichlorophenol [2,4,5-] | 2 | | | | 8,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 513 Trichlorophenol [2,4,6-] | 2 | | | | 64 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 514 Trichloropropane [1,2,3-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 515 Trimethylbenzene [1,2,4-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 516 Trimethylbenzene [1,3,5-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 517 Uranium | 3 | 3 | 4.1 | 4.4 | | mg/kg | | | | | | |
| 518 Vinyl chloride | 2 | | | | 0.012 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 519 Xylenes (o + m + p) [Mixed-] | 2 | | | | 160,000 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 00-030(q) | | | | | | | | | | | | |
| 520 | Acenaphthene | 2 | | | | 4,800 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 521 | Acenaphthylene | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 522 | Acetone | 2 | 1 | 0.043 | 0.043 | 8,000 | mg/kg | 1 | 0.02 | 0.02 | | 2 | |
| 523 | Aldrin | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 524 | Aniline | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 525 | Anthracene | 2 | | | | 24,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 526 | Antimony | 3 | | | | 32 | mg/kg | 3 | 0.25 | 0.25 | | 3 | |
| 527 | Aroclor 1016 | 2 | | | | | mg/kg | 2 | 0.0731 | 0.0736 | | | |
| 528 | Aroclor 1221 | 2 | | | | | mg/kg | 2 | 0.0362 | 0.0371 | | | |
| 529 | Aroclor 1232 | 2 | | | | | mg/kg | 2 | 0.0362 | 0.0371 | | | |
| 530 | Aroclor 1242 | 3 | | | | | mg/kg | 3 | 0.0362 | 0.2614 | | | |
| 531 | Aroclor 1248 | 2 | | | | | mg/kg | 2 | 0.0362 | 0.0371 | | | |
| 532 | Aroclor 1254 | 3 | | | | | mg/kg | 3 | 0.0362 | 0.2614 | | | |
| 533 | Aroclor 1260 | 3 | | | | | mg/kg | 3 | 0.0362 | 0.2614 | | | |
| 534 | Aroclor [Mixed-] | 1 | | | | 0.09 | mg/kg | 1 | 0.2614 | 0.2614 | | | 1 |
| 535 | Arsenic | 3 | 3 | 3 | 3.2 | 0.4 | mg/kg | | | | 3 | | |
| 536 | Azobenzene | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 537 | BHC [alpha-] | 2 | | | | 0.1 | mg/kg | 2 | 0.0019 | 0.0019 | | 2 | |
| 538 | BHC [beta-] | 2 | | | | 4 | mg/kg | 2 | 0.0019 | 0.0019 | | 2 | |
| 539 | BHC [delta-] | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 540 | Barium | 3 | 3 | 110 | 210 | 5,600 | mg/kg | | | | | 3 | |
| 541 | Benzene | 2 | | | | 0.67 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 542 | Benzidine [m-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 543 | Benzo[a]anthracene | 2 | | | | 0.64 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 544 | Benzo[a]pyrene | 2 | | | | 0.1 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 545 | Benzo[b]fluoranthene | 2 | | | | 0.7 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 546 | Benzo[g,h,i]perylene | 2 | | | | 44 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 547 | Benzo[k]fluoranthene | 2 | | | | 1.5 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 548 | Benzoic acid | 2 | | | | 320,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 549 | Benzyl alcohol | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 550 | Beryllium | 3 | 3 | 0.67 | 0.76 | 0.16 | mg/kg | | | | 3 | | |
| 551 | Bis(2-chloroethoxy)methane | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 552 | Bis(2-chloroethyl)ether | 2 | | | | 0.12 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 553 | Bis(2-chloroisopropyl)ether | 2 | | | | 100 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 554 | Bis(2-ethylhexyl)phthalate | 2 | | | | 50 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 555 | Bromobenzene | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 556 | Bromochloromethane | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 557 | Bromodichloromethane | 2 | | | | 11 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 558 | Bromoform | 2 | | | | 89 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 559 | Bromomethane | 2 | | | | 0.43 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 560 | Bromophenylphenyl ether [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 561 | Butanone [2-] | 2 | | | | 4,000 | mg/kg | 2 | 0.02 | 0.02 | | 2 | |
| 562 | Butyl benzyl phthalate | 2 | | | | 16,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 563 | Butylbenzene [n-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 564 | Butylbenzene [sec-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 565 | Butylbenzene [tert-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 566 | Cadmium | 3 | 1 | 2 | 2 | 80 | mg/kg | 2 | 0.4 | 0.4 | | 3 | |
| 567 | Carbon disulfide | 2 | | | | 7.4 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 568 | Carbon tetrachloride | 2 | | | | 0.21 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 569 | Chlordane [alpha-] | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 570 | Chlordane [gamma-] | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 571 | Chloro-3-methylphenol [4-] | 2 | | | | 16,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 572 | Chloroaniline [4-] | 2 | | | | 320 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 573 | Chlorobenzene | 2 | | | | 67 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 574 | Chlorodibromomethane | 2 | | | | 83 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 575 | Chloroethane | 2 | | | | 3,300 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 576 | Chloroform | 2 | | | | 0.21 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 577 | Chloromethane | 2 | | | | 6.4 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 578 | Chloronaphthalene [2-] | 2 | | | | 6,400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 579 | Chlorophenol [o-] | 2 | | | | 400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 580 | Chlorophenylphenyl ether [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 581 | Chlorotoluene [o-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 582 | Chlorotoluene [p-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 583 | Chromium | 3 | 3 | 7.5 | 13 | 400 | mg/kg | | | | | 3 | |
| 584 | Chrysene | 2 | | | | 22 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 585 | DDD [p,p'-] | 2 | 1 | 0.0104 | 0.0104 | 2.9 | mg/kg | 1 | 0.0036 | 0.0036 | | 2 | |
| 586 | DDE [p,p'-] | 2 | 1 | 0.12 | 0.12 | | mg/kg | 1 | 0.0036 | 0.0036 | | | |
| 587 | DDT [p,p'-] | 2 | 1 | 0.112 | 0.112 | 2.1 | mg/kg | 1 | 0.0036 | 0.0036 | | 2 | |
| 588 | Di-n-butyl phthalate | 2 | | | | 8,000 | mg/kg | 2 | 0.98 | 1.1 | | 2 | |
| 589 | Di-n-octyl phthalate | 2 | | | | 1,600 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 590 | Dibenzo[a,h]anthracene | 2 | | | | 0.086 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 591 | Dibenzofuran | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 592 | Dibromo-3-chloropropane [1,2-] | 2 | | | | | mg/kg | 2 | 0.01 | 0.01 | | | |
| 593 | Dibromoethane [1,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 594 | Dibromomethane | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 595 | Dichlorobenzene (1,2) [o-] | 4 | | | | 1,600 | mg/kg | 4 | 0.005 | 0.33 | | 4 | |
| 596 | Dichlorobenzene (1,3) [m-] | 4 | | | | 7,200 | mg/kg | 4 | 0.005 | 0.33 | | 4 | |
| 597 | Dichlorobenzene (1,4) [p-] | 4 | | | | 290 | mg/kg | 4 | 0.005 | 0.33 | | 4 | |
| 598 | Dichlorobenzidine [3,3'-] | 2 | | | | 1.6 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 599 | Dichlorodifluoromethane | 2 | | | | | mg/kg | 2 | 0.01 | 0.01 | | | |
| 600 | Dichloroethane [1,1-] | 2 | | | | 410 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 601 | Dichloroethane [1,2-] | 2 | | | | 0.2 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 602 | Dichloroethene [1,1-] | 2 | | | | 0.4 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 603 | Dichloroethene [trans-1,2-] | 2 | | | | 1,600 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 604 | Dichloroethylene [cis-1,2-] | 2 | | | | 800 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 605 | Dichlorophenol [2,4-] | 2 | | | | 240 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 606 | Dichloropropane [1,2-] | 2 | | | | 6.5 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 607 | Dichloropropane [1,3-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 608 | Dichloropropane [2,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 609 | Dichloropropene [1,1-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 610 | Dichloropropene [cis-1,3-] | 2 | | | | 0.17 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 611 | Dichloropropene [trans-1,3-] | 2 | | | | 0.17 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 612 | Dieldrin | 2 | | | | | mg/kg | 2 | 0.0036 | 0.0037 | | | |
| 613 | Diethyl phthalate | 2 | | | | 64,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 614 | Dimethyl phthalate | 2 | | | | 800,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 615 | Dimethylphenol [2,4-] | 2 | | | | 1,600 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 616 | Dinitrophenol [2,4-] | 2 | | | | 160 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 617 | Dinitrotoluene [2,4-] | 2 | | | | 1 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 618 | Dinitrotoluene [2,6-] | 2 | | | | 1 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 619 | Endosulfan I | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 620 | Endosulfan II | 2 | | | | | mg/kg | 2 | 0.0036 | 0.0037 | | | |
| 621 | Endosulfan sulfate | 2 | | | | | mg/kg | 2 | 0.0036 | 0.0037 | | | |
| 622 | Endrin | 2 | | | | | mg/kg | 2 | 0.0036 | 0.0037 | | | |
| 623 | Endrin aldehyde | 2 | | | | | mg/kg | 2 | 0.0036 | 0.0037 | | | |
| 624 | Endrin ketone | 2 | | | | | mg/kg | 2 | 0.0036 | 0.0037 | | | |
| 625 | Ethylbenzene | 2 | | | | 3,100 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 626 | Fluoranthene | 2 | | | | 3,200 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 627 | Fluorene | 2 | | | | 3,200 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 628 | Heptachlor | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 629 | Heptachlor epoxide | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 630 | Hexachlorobenzene | 2 | | | | 0.44 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 631 | Hexachlorobutadiene | 2 | | | | 90 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 632 | Hexachlorocyclopentadiene | 2 | | | | 560 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 633 | Hexachloroethane | 2 | | | | 80 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 634 | Hexanone [2-] | 2 | | | | | mg/kg | 2 | 0.02 | 0.02 | | | |
| 635 | Indeno[1,2,3-cd]pyrene | 2 | | | | 0.41 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 636 | Isophorone | 2 | | | | 7,400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 637 | Isopropylbenzene | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 638 | Isopropyltoluene [4-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 639 | Lead | 2 | 2 | 20.4 | 65 | 500 | mg/kg | | | | | 2 | |
| 640 | Lindane | 2 | | | | | mg/kg | 2 | 0.0019 | 0.0019 | | | |
| 641 | Mercury | 9 | 3 | 1 | 2 | 24 | mg/kg | 6 | 0.1 | 0.1 | | 9 | |
| 642 | Methoxychlor | 2 | | | | | mg/kg | 2 | 0.0187 | 0.0191 | | | |
| 643 | Methyl iodide | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 644 | Methyl-2-pentanone [4-] | 2 | | | | 510 | mg/kg | 2 | 0.02 | 0.02 | | 2 | |
| 645 | Methyl-4,6-dinitrophenol [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 646 | Methylene chloride | 2 | | | | 5.6 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 647 | Methylnaphthalene [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 648 | Methylphenol [2-] | 2 | | | | 4,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 649 | Methylphenol [4-] | 2 | | | | 400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 650 | Naphthalene | 2 | | | | 3,200 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 651 | Nickel | 3 | 3 | 7 | 7.6 | 1,600 | mg/kg | | | | | 3 | |
| 652 | Nitroaniline [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 653 | Nitroaniline [3-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 654 | Nitroaniline [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 655 | Nitrobenzene | 2 | | | | 5.3 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 656 | Nitrophenol [2-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 657 | Nitrophenol [4-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 658 | Nitrosodi-n-propylamine [N-] | 2 | | | | 0.1 | mg/kg | 2 | 0.33 | 0.33 | | | 2 |
| 659 | Nitrosodimethylamine [N-] | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 660 | Nitrosodiphenylamine [N-] | 2 | | | | 140 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 661 | Pentachlorophenol | 2 | | | | 5.8 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 662 | Phenanthrene | 2 | | | | | mg/kg | 2 | 0.33 | 0.33 | | | |
| 663 | Phenol | 2 | | | | 48,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 664 | Plutonium-238 | 2 | 2 | 0.003 | 0.015 | 27 | pCi/g | | | | | 2 | |
| 665 | Plutonium-239 | 2 | 2 | 0.012 | 0.013 | 24 | pCi/g | | | | | 2 | |
| 666 | Propylbenzene | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 667 | Pyrene | 2 | | | | 2,400 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 668 | Selenium | 3 | | | | 400 | mg/kg | 3 | 0.3 | 0.3 | | 3 | |
| 669 | Silver | 3 | | | | 400 | mg/kg | 3 | 1 | 1 | | 3 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 670 | Styrene | 2 | | | | 16,000 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 671 | Tetrachloroethane [1,1,1,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 672 | Tetrachloroethane [1,1,2,2-] | 2 | | | | 3.9 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 673 | Tetrachloroethylene | 2 | | | | 5.9 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 674 | Thallium | 3 | | | | 6.4 | mg/kg | 3 | 0.25 | 0.25 | | 3 | |
| 675 | Toluene | 2 | | | | 890 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 676 | Toxaphene | 2 | | | | | mg/kg | 2 | 0.187 | 0.191 | | | |
| 677 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 678 | Trichlorobenzene [1,2,4-] | 2 | | | | 160 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 679 | Trichloroethane [1,1,1-] | 2 | | | | 1,000 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 680 | Trichloroethane [1,1,2-] | 2 | | | | 6.3 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 681 | Trichloroethene | 2 | | | | 3.2 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| 682 | Trichlorofluoromethane | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 683 | Trichlorophenol [2,4,5-] | 2 | | | | 8,000 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 684 | Trichlorophenol [2,4,6-] | 2 | | | | 64 | mg/kg | 2 | 0.33 | 0.33 | | 2 | |
| 685 | Trichloropropane [1,2,3-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 686 | Trimethylbenzene [1,2,4-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 687 | Trimethylbenzene [1,3,5-] | 2 | | | | | mg/kg | 2 | 0.005 | 0.005 | | | |
| 688 | Uranium | 2 | 2 | 1.66 | 1.71 | | pCi/g | | | | | | |
| 689 | Vinyl chloride | 2 | | | | 0.012 | mg/kg | 2 | 0.01 | 0.01 | | 2 | |
| 690 | Xylenes (o + m + p) [Mixed-] | 2 | | | | 160,000 | mg/kg | 2 | 0.005 | 0.005 | | 2 | |
| | **00-031(b)** | | | | | | | | | | | | |
| 691 | Lead | 6 | 5 | 6.4 | 10.1 | 500 | mg/kg | 1 | 0.4 | 0.4 | | 6 | |
| 692 | Petroleum Hydrocarbons, Total Recoverable | 4 | 2 | 3 | 9 | | mg/kg | 2 | 1 | 1 | | | |
| | **00-031(b) UST-2** | | | | | | | | | | | | |
| 693 | Lead | 1 | 1 | 0.86 | 0.86 | 500 | mg/kg | | | | | 1 | |
| 694 | Petroleum Hydrocarbons, Total Recoverable | 4 | 2 | 13 | 81 | | mg/kg | 2 | 1 | 1 | | | |
| | **00-032** | | | | | | | | | | | | |
| 695 | Acenaphthene | 26 | | | | 4,800 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 696 | Acenaphthylene | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 697 | Acetone | 28 | 10 | 0.024 | 0.058 | 8,000 | mg/kg | 18 | 0.02 | 0.044 | | 28 | |
| 698 | Aniline | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 699 | Anthracene | 26 | | | | 24,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 700 | Azobenzene | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 701 | Benzene | 28 | | | | 0.67 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 702 | Benzidine [m-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 703 | Benzo[a]anthracene | 26 | | | | 0.64 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 704 | Benzo[a]pyrene | 26 | | | | 0.1 | mg/kg | 26 | 0.33 | 0.33 | | | 26 |
| 705 | Benzo[b]fluoranthene | 26 | | | | 0.7 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 706 | Benzo[g,h,i]perylene | 26 | | | | 44 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 707 | Benzo[k]fluoranthene | 26 | | | | 1.5 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 708 | Benzoic acid | 26 | | | | 320,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 709 | Benzyl alcohol | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 710 | Bis(2-chloroethoxy)methane | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 711 | Bis(2-chloroethyl)ether | 26 | | | | 0.12 | mg/kg | 26 | 0.33 | 0.33 | | | 26 |
| 712 | Bis(2-chloroisopropyl)ether | 26 | | | | 100 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 713 | Bis(2-ethylhexyl)phthalate | 26 | | | | 50 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 714 | Bromobenzene | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 715 | Bromochloromethane | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 716 | Bromodichloromethane | 28 | | | | 11 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 717 | Bromoform | 28 | | | | 89 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 718 | Bromomethane | 28 | | | | 0.43 | mg/kg | 28 | 0.01 | 0.01 | | 28 | |
| 719 | Bromophenylphenyl ether [4-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 720 | Butanone [2-] | 28 | 1 | 0.028 | 0.028 | 4,000 | mg/kg | 27 | 0.02 | 0.04 | | 28 | |
| 721 | Butyl benzyl phthalate | 26 | | | | 16,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 722 | Butylbenzene [n-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 723 | Butylbenzene [sec-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 724 | Butylbenzene [tert-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 725 | Carbon disulfide | 28 | 1 | 0.0061 | 0.0061 | 7.4 | mg/kg | 27 | 0.005 | 0.005 | | 28 | |
| 726 | Carbon tetrachloride | 28 | | | | 0.21 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 727 | Chloro-3-methylphenol [4-] | 26 | | | | 16,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 728 | Chloroaniline [4-] | 26 | | | | 320 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 729 | Chlorobenzene | 28 | | | | 67 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 730 | Chlorodibromomethane | 28 | | | | 83 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 731 | Chloroethane | 28 | | | | 3,300 | mg/kg | 28 | 0.01 | 0.01 | | 28 | |
| 732 | Chloroform | 28 | | | | 0.21 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 733 | Chloromethane | 28 | | | | 6.4 | mg/kg | 28 | 0.01 | 0.01 | | 28 | |
| 734 | Chloronaphthalene [2-] | 26 | | | | 6,400 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 735 | Chlorophenol [o-] | 26 | | | | 400 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 736 | Chlorophenylphenyl ether [4-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 737 | Chlorotoluene [o-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 738 | Chlorotoluene [p-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 739 | Chromium | 26 | 24 | 0.92 | 19 | 400 | mg/kg | 2 | 0.7 | 0.7 | | 26 | |
| 740 | Chrysene | 26 | | | | 22 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 741 | Di-n-butyl phthalate | 26 | | | | 8,000 | mg/kg | 26 | 0.33 | 0.51 | | 26 | |
| 742 | Di-n-octyl phthalate | 26 | | | | 1,600 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 743 | Dibenzo[a,h]anthracene | 26 | | | | 0.086 | mg/kg | 26 | 0.33 | 0.33 | | | 26 |
| 744 | Dibenzofuran | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 745 | Dibromo-3-chloropropane [1,2-] | 28 | | | | | mg/kg | 28 | 0.01 | 0.01 | | | |
| 746 | Dibromoethane [1,2-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 747 | Dibromomethane | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 748 | Dichlorobenzene (1,2) [o-] | 54 | | | | 1,600 | mg/kg | 54 | 0.005 | 0.33 | | 54 | |
| 749 | Dichlorobenzene (1,3) [m-] | 54 | | | | 7,200 | mg/kg | 54 | 0.005 | 0.33 | | 54 | |
| 750 | Dichlorobenzene (1,4) [p-] | 54 | | | | 290 | mg/kg | 54 | 0.005 | 0.33 | | 54 | |
| 751 | Dichlorobenzidine [3,3'-] | 26 | | | | 1.6 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 752 | Dichlorodifluoromethane | 28 | | | | | mg/kg | 28 | 0.01 | 0.01 | | | |
| 753 | Dichloroethane [1,1-] | 28 | | | | 410 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 754 | Dichloroethane [1,2-] | 28 | | | | 0.2 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 755 | Dichloroethene [1,1-] | 28 | | | | 0.4 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 756 | Dichloroethene [trans-1,2-] | 28 | | | | 1,600 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 757 | Dichloroethylene [cis-1,2-] | 28 | | | | 800 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 758 | Dichlorophenol [2,4-] | 26 | | | | 240 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 759 | Dichloropropane [1,2-] | 28 | | | | 6.5 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 760 | Dichloropropane [1,3-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 761 | Dichloropropane [2,2-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 762 | Dichloropropene [1,1-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 763 | Dichloropropene [cis-1,3-] | 28 | | | | 0.17 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 764 | Dichloropropene [trans-1,3-] | 28 | | | | 0.17 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 765 | Diethyl phthalate | 26 | | | | 64,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 766 | Dimethyl phthalate | 26 | | | | 800,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 767 | Dimethylphenol [2,4-] | 26 | | | | 1,600 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 768 | Dinitrophenol [2,4-] | 26 | | | | 160 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 769 | Dinitrotoluene [2,4-] | 26 | | | | 1 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 770 | Dinitrotoluene [2,6-] | 26 | | | | 1 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 771 | Ethylbenzene | 28 | | | | 3,100 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 772 | Fluoranthene | 26 | | | | 3,200 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 773 | Fluorene | 26 | | | | 3,200 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 774 | Hexachlorobenzene | 26 | | | | 0.44 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 775 | Hexachlorobutadiene | 26 | | | | 90 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 776 | Hexachlorocyclopentadiene | 26 | | | | 560 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 777 | Hexachloroethane | 26 | | | | 80 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 778 | Hexanone [2-] | 28 | | | | | mg/kg | 28 | 0.02 | 0.02 | | | |
| 779 | Indeno[1,2,3-cd]pyrene | 26 | | | | 0.41 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 780 | Isophorone | 26 | | | | 7,400 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 781 | Isopropylbenzene | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 782 | Isopropyltoluene [4-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 783 | Lead | 28 | 19 | 5 | 70 | 500 | mg/kg | 9 | 4 | 5 | | 28 | |
| 784 | Methyl iodide | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 785 | Methyl-2-pentanone [4-] | 28 | | | | 510 | mg/kg | 28 | 0.02 | 0.02 | | 28 | |
| 786 | Methyl-4,6-dinitrophenol [2-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 787 | Methylene chloride | 28 | | | | 5.6 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 788 | Methylnaphthalene [2-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 789 | Methylphenol [2-] | 26 | | | | 4,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 790 | Methylphenol [4-] | 26 | | | | 400 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 791 | Naphthalene | 26 | | | | 3,200 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 792 | Nitroaniline [2-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 793 | Nitroaniline [3-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 794 | Nitroaniline [4-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 795 | Nitrobenzene | 26 | | | | 5.3 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 796 | Nitrophenol [2-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 797 | Nitrophenol [4-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 798 | Nitrosodi-n-propylamine [N-] | 26 | | | | 0.1 | mg/kg | 26 | 0.33 | 0.33 | | | 26 |
| 799 | Nitrosodimethylamine [N-] | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 800 | Nitrosodiphenylamine [N-] | 26 | | | | 140 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 801 | Pentachlorophenol | 26 | | | | 5.8 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 802 | Petroleum Hydrocarbons, Total Recoverable | 28 | 20 | 1 | 3,600 | | mg/kg | 8 | 1 | 1 | | | |
| 803 | Phenanthrene | 26 | | | | | mg/kg | 26 | 0.33 | 0.33 | | | |
| 804 | Phenol | 26 | | | | 48,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 805 | Propylbenzene | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 806 | Pyrene | 26 | | | | 2,400 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 807 | Styrene | 28 | | | | 16,000 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 808 | Tetrachloroethane [1,1,1,2-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 809 | Tetrachloroethane [1,1,2,2-] | 28 | | | | 3.9 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 810 | Tetrachloroethylene | 28 | | | | 5.9 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 811 | Toluene | 28 | | | | 890 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 812 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 813 | Trichlorobenzene [1,2,4-] | 26 | | | | 160 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 814 | Trichloroethane [1,1,1-] | 28 | | | | 1,000 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 815 | Trichloroethane [1,1,2-] | 28 | | | | 6.3 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 816 | Trichloroethene | 28 | | | | 3.2 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| 817 | Trichlorofluoromethane | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 818 | Trichlorophenol [2,4,5-] | 26 | | | | 8,000 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 819 | Trichlorophenol [2,4,6-] | 26 | | | | 64 | mg/kg | 26 | 0.33 | 0.33 | | 26 | |
| 820 | Trichloropropane [1,2,3-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 821 | Trimethylbenzene [1,2,4-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 822 | Trimethylbenzene [1,3,5-] | 28 | | | | | mg/kg | 28 | 0.005 | 0.005 | | | |
| 823 | Vinyl chloride | 28 | | | | 0.012 | mg/kg | 28 | 0.01 | 0.01 | | 28 | |
| 824 | Xylenes (o + m + p) [Mixed-] | 28 | | | | 160,000 | mg/kg | 28 | 0.005 | 0.005 | | 28 | |
| | **00-032 JUNCTION BOX 5N** | | | | | | | | | | | | |
| 825 | Acenaphthene | 7 | | | | 4,800 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 826 | Acenaphthylene | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 827 | Acetone | 7 | 4 | 0.054 | 0.28 | 8,000 | mg/kg | 3 | 0.02 | 0.02 | | 7 | |
| 828 | Aniline | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 829 | Anthracene | 7 | | | | 24,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 830 | Azobenzene | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 831 | Benzene | 7 | | | | 0.67 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 832 | Benzidine [m-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 833 | Benzo[a]anthracene | 7 | | | | 0.64 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 834 | Benzo[a]pyrene | 7 | | | | 0.1 | mg/kg | 7 | 0.33 | 0.33 | | | 7 |
| 835 | Benzo[b]fluoranthene | 7 | | | | 0.7 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 836 | Benzo[g,h,i]perylene | 7 | | | | 44 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 837 | Benzo[k]fluoranthene | 7 | | | | 1.5 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 838 | Benzoic acid | 7 | | | | 320,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 839 | Benzyl alcohol | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 840 | Bis(2-chloroethoxy)methane | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 841 | Bis(2-chloroethyl)ether | 7 | | | | 0.12 | mg/kg | 7 | 0.33 | 0.33 | | | 7 |
| 842 | Bis(2-chloroisopropyl)ether | 7 | | | | 100 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 843 | Bis(2-ethylhexyl)phthalate | 7 | | | | 50 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 844 | Bromobenzene | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 845 | Bromochloromethane | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 846 Bromodichloromethane | 7 | | | | 11 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 847 Bromoform | 7 | | | | 89 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 848 Bromomethane | 7 | | | | 0.43 | mg/kg | 7 | 0.01 | 0.01 | | 7 | |
| 849 Bromophenylphenyl ether [4-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 850 Butanone [2-] | 7 | | | | 4,000 | mg/kg | 7 | 0.02 | 0.049 | | 7 | |
| 851 Butyl benzyl phthalate | 7 | | | | 16,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 852 Butylbenzene [n-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 853 Butylbenzene [sec-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 854 Butylbenzene [tert-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 855 Carbon disulfide | 7 | | | | 7.4 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 856 Carbon tetrachloride | 7 | | | | 0.21 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 857 Chloro-3-methylphenol [4-] | 7 | | | | 16,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 858 Chloroaniline [4-] | 7 | | | | 320 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 859 Chlorobenzene | 7 | | | | 67 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 860 Chlorodibromomethane | 7 | | | | 83 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 861 Chloroethane | 7 | | | | 3,300 | mg/kg | 7 | 0.01 | 0.01 | | 7 | |
| 862 Chloroform | 7 | | | | 0.21 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 863 Chloromethane | 7 | | | | 6.4 | mg/kg | 7 | 0.01 | 0.01 | | 7 | |
| 864 Chloronaphthalene [2-] | 7 | | | | 6,400 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 865 Chlorophenol [o-] | 7 | | | | 400 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 866 Chlorophenylphenyl ether [4-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 867 Chlorotoluene [o-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 868 Chlorotoluene [p-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 869 Chromium | 8 | 7 | 5.7 | 12 | 400 | mg/kg | 1 | 1 | 1 | | 8 | |
| 870 Chrysene | 7 | | | | 22 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 871 Di-n-butyl phthalate | 7 | | | | 8,000 | mg/kg | 7 | 0.33 | 0.42 | | 7 | |
| 872 Di-n-octyl phthalate | 7 | | | | 1,600 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 873 Dibenzo[a,h]anthracene | 7 | | | | 0.086 | mg/kg | 7 | 0.33 | 0.33 | | | 7 |
| 874 Dibenzofuran | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 875 Dibromo-3-chloropropane [1,2-] | 7 | | | | | mg/kg | 7 | 0.01 | 0.01 | | | |
| 876 Dibromoethane [1,2-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 877 Dibromomethane | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 878 Dichlorobenzene (1,2) [o-] | 14 | | | | 1,600 | mg/kg | 14 | 0.005 | 0.33 | | 14 | |
| 879 Dichlorobenzene (1,3) [m-] | 14 | | | | 7,200 | mg/kg | 14 | 0.005 | 0.33 | | 14 | |
| 880 Dichlorobenzene (1,4) [p-] | 14 | | | | 290 | mg/kg | 14 | 0.005 | 0.33 | | 14 | |
| 881 Dichlorobenzidine [3,3'-] | 7 | | | | 1.6 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 882 Dichlorodifluoromethane | 7 | | | | | mg/kg | 7 | 0.01 | 0.01 | | | |
| 883 Dichloroethane [1,1-] | 7 | | | | 410 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 884 | Dichloroethane [1,2-] | 7 | | | | 0.2 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 885 | Dichloroethene [1,1-] | 7 | | | | 0.4 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 886 | Dichloroethene [trans-1,2-] | 7 | | | | 1,600 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 887 | Dichloroethylene [cis-1,2-] | 7 | | | | 800 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 888 | Dichlorophenol [2,4-] | 7 | | | | 240 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 889 | Dichloropropane [1,2-] | 7 | | | | 6.5 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 890 | Dichloropropane [1,3-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 891 | Dichloropropane [2,2-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 892 | Dichloropropene [1,1-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 893 | Dichloropropene [cis-1,3-] | 7 | | | | 0.17 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 894 | Dichloropropene [trans-1,3-] | 7 | | | | 0.17 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 895 | Diethyl phthalate | 7 | | | | 64,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 896 | Dimethyl phthalate | 7 | | | | 800,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 897 | Dimethylphenol [2,4-] | 7 | | | | 1,600 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 898 | Dinitrophenol [2,4-] | 7 | | | | 160 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 899 | Dinitrotoluene [2,4-] | 7 | | | | 1 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 900 | Dinitrotoluene [2,6-] | 7 | | | | 1 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 901 | Ethylbenzene | 7 | | | | 3,100 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 902 | Fluoranthene | 7 | | | | 3,200 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 903 | Fluorene | 7 | | | | 3,200 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 904 | Hexachlorobenzene | 7 | | | | 0.44 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 905 | Hexachlorobutadiene | 7 | | | | 90 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 906 | Hexachlorocyclopentadiene | 7 | | | | 560 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 907 | Hexachloroethane | 7 | | | | 80 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 908 | Hexanone [2-] | 7 | | | | | mg/kg | 7 | 0.02 | 0.02 | | | |
| 909 | Indeno[1,2,3-cd]pyrene | 7 | | | | 0.41 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 910 | Isophorone | 7 | | | | 7,400 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 911 | Isopropylbenzene | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 912 | Isopropyltoluene [4-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 913 | Lead | 8 | 8 | 9 | 32 | 500 | mg/kg | | | | | 8 | |
| 914 | Methyl iodide | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 915 | Methyl-2-pentanone [4-] | 7 | | | | 510 | mg/kg | 7 | 0.02 | 0.02 | | 7 | |
| 916 | Methyl-4,6-dinitrophenol [2-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 917 | Methylene chloride | 7 | | | | 5.6 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 918 | Methylnaphthalene [2-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 919 | Methylphenol [2-] | 7 | | | | 4,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 920 | Methylphenol [4-] | 7 | | | | 400 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 921 | Naphthalene | 7 | | | | 3,200 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 922 | Nitroaniline [2-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 923 | Nitroaniline [3-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 924 | Nitroaniline [4-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 925 | Nitrobenzene | 7 | | | | 5.3 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 926 | Nitrophenol [2-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 927 | Nitrophenol [4-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 928 | Nitrosodi-n-propylamine [N-] | 7 | | | | 0.1 | mg/kg | 7 | 0.33 | 0.33 | | | 7 |
| 929 | Nitrosodimethylamine [N-] | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 930 | Nitrosodiphenylamine [N-] | 7 | | | | 140 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 931 | Pentachlorophenol | 7 | | | | 5.8 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 932 | Petroleum Hydrocarbons, Total Recoverable | 7 | 4 | 6 | 40 | | mg/kg | 3 | 1 | 1 | | | |
| 933 | Phenanthrene | 7 | | | | | mg/kg | 7 | 0.33 | 0.33 | | | |
| 934 | Phenol | 7 | | | | 48,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 935 | Propylbenzene | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 936 | Pyrene | 7 | | | | 2,400 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 937 | Styrene | 7 | | | | 16,000 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 938 | Tetrachloroethane [1,1,1,2-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 939 | Tetrachloroethane [1,1,2,2-] | 7 | | | | 3.9 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 940 | Tetrachloroethylene | 7 | | | | 5.9 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 941 | Toluene | 7 | | | | 890 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 942 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 943 | Trichlorobenzene [1,2,4-] | 7 | | | | 160 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 944 | Trichloroethane [1,1,1-] | 7 | | | | 1,000 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 945 | Trichloroethane [1,1,2-] | 7 | | | | 6.3 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 946 | Trichloroethene | 7 | | | | 3.2 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| 947 | Trichlorofluoromethane | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 948 | Trichlorophenol [2,4,5-] | 7 | | | | 8,000 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 949 | Trichlorophenol [2,4,6-] | 7 | | | | 64 | mg/kg | 7 | 0.33 | 0.33 | | 7 | |
| 950 | Trichloropropane [1,2,3-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 951 | Trimethylbenzene [1,2,4-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 952 | Trimethylbenzene [1,3,5-] | 7 | | | | | mg/kg | 7 | 0.005 | 0.005 | | | |
| 953 | Vinyl chloride | 7 | | | | 0.012 | mg/kg | 7 | 0.01 | 0.01 | | 7 | |
| 954 | Xylenes (o + m + p) [Mixed-] | 7 | | | | 160,000 | mg/kg | 7 | 0.005 | 0.005 | | 7 | |
| | **00-032 JUNCTION BOX 5S** | | | | | | | | | | | | |
| 955 | Acenaphthene | 5 | | | | 4,800 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 956 | Acenaphthylene | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 957 | Acetone | 5 | 4 | 0.09 | 0.18 | 8,000 | mg/kg | 1 | 0.02 | 0.02 | | 5 | |
| 958 | Aniline | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 959 | Anthracene | 5 | | | | 24,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 960 | Azobenzene | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 961 | Benzene | 5 | | | | 0.67 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 962 | Benzidine [m-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 963 | Benzo[a]anthracene | 5 | | | | 0.64 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 964 | Benzo[a]pyrene | 5 | | | | 0.1 | mg/kg | 5 | 0.33 | 0.33 | | | 5 |
| 965 | Benzo[b]fluoranthene | 5 | | | | 0.7 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 966 | Benzo[g,h,i]perylene | 5 | | | | 44 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 967 | Benzo[k]fluoranthene | 5 | | | | 1.5 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 968 | Benzoic acid | 5 | | | | 320,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 969 | Benzyl alcohol | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 970 | Bis(2-chloroethoxy)methane | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 971 | Bis(2-chloroethyl)ether | 5 | | | | 0.12 | mg/kg | 5 | 0.33 | 0.33 | | | 5 |
| 972 | Bis(2-chloroisopropyl)ether | 5 | | | | 100 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 973 | Bis(2-ethylhexyl)phthalate | 5 | | | | 50 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 974 | Bromobenzene | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 975 | Bromochloromethane | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 976 | Bromodichloromethane | 5 | | | | 11 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 977 | Bromoform | 5 | | | | 89 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 978 | Bromomethane | 5 | | | | 0.43 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 979 | Bromophenylphenyl ether [4-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 980 | Butanone [2-] | 5 | | | | 4,000 | mg/kg | 5 | 0.02 | 0.052 | | 5 | |
| 981 | Butyl benzyl phthalate | 5 | | | | 16,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 982 | Butylbenzene [n-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 983 | Butylbenzene [sec-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 984 | Butylbenzene [tert-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 985 | Carbon disulfide | 5 | | | | 7.4 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 986 | Carbon tetrachloride | 5 | | | | 0.21 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 987 | Chloro-3-methylphenol [4-] | 5 | | | | 16,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 988 | Chloroaniline [4-] | 5 | | | | 320 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 989 | Chlorobenzene | 5 | | | | 67 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 990 | Chlorodibromomethane | 5 | | | | 83 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 991 | Chloroethane | 5 | | | | 3,300 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 992 | Chloroform | 5 | | | | 0.21 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 993 | Chloromethane | 5 | | | | 6.4 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 994 | Chloronaphthalene [2-] | 5 | | | | 6,400 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 995 Chlorophenol [o-] | 5 | | | | 400 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 996 Chlorophenylphenyl ether [4-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 997 Chlorotoluene [o-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 998 Chlorotoluene [p-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 999 Chromium | 5 | 5 | 10 | 14 | 400 | mg/kg | | | | | 5 | |
| 1000 Chrysene | 5 | | | | 22 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1001 Di-n-butyl phthalate | 5 | 1 | 0.63 | 0.63 | 8,000 | mg/kg | 4 | 0.33 | 0.33 | | 5 | |
| 1002 Di-n-octyl phthalate | 5 | | | | 1,600 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1003 Dibenzo[a,h]anthracene | 5 | | | | 0.086 | mg/kg | 5 | 0.33 | 0.33 | | | 5 |
| 1004 Dibenzofuran | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1005 Dibromo-3-chloropropane [1,2-] | 5 | | | | | mg/kg | 5 | 0.01 | 0.01 | | | |
| 1006 Dibromoethane [1,2-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1007 Dibromomethane | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1008 Dichlorobenzene (1,2) [o-] | 10 | | | | 1,600 | mg/kg | 10 | 0.005 | 0.33 | | 10 | |
| 1009 Dichlorobenzene (1,3) [m-] | 10 | | | | 7,200 | mg/kg | 10 | 0.005 | 0.33 | | 10 | |
| 1010 Dichlorobenzene (1,4) [p-] | 10 | | | | 290 | mg/kg | 10 | 0.005 | 0.33 | | 10 | |
| 1011 Dichlorobenzidine [3,3'-] | 5 | | | | 1.6 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1012 Dichlorodifluoromethane | 5 | | | | | mg/kg | 5 | 0.01 | 0.01 | | | |
| 1013 Dichloroethane [1,1-] | 5 | | | | 410 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1014 Dichloroethane [1,2-] | 5 | | | | 0.2 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1015 Dichloroethene [1,1-] | 5 | | | | 0.4 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1016 Dichloroethene [trans-1,2-] | 5 | | | | 1,600 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1017 Dichloroethylene [cis-1,2-] | 5 | | | | 800 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1018 Dichlorophenol [2,4-] | 5 | | | | 240 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1019 Dichloropropane [1,2-] | 5 | | | | 6.5 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1020 Dichloropropane [1,3-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1021 Dichloropropane [2,2-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1022 Dichloropropene [1,1-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1023 Dichloropropene [cis-1,3-] | 5 | | | | 0.17 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1024 Dichloropropene [trans-1,3-] | 5 | | | | 0.17 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1025 Diethyl phthalate | 5 | | | | 64,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1026 Dimethyl phthalate | 5 | | | | 800,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1027 Dimethylphenol [2,4-] | 5 | | | | 1,600 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1028 Dinitrophenol [2,4-] | 5 | | | | 160 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1029 Dinitrotoluene [2,4-] | 5 | | | | 1 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1030 Dinitrotoluene [2,6-] | 5 | | | | 1 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1031 Ethylbenzene | 5 | | | | 3,100 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1032 Fluoranthene | 5 | | | | 3,200 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1033 Fluorene | 5 | | | | 3,200 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1034 Hexachlorobenzene | 5 | | | | 0.44 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1035 Hexachlorobutadiene | 5 | | | | 90 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1036 Hexachlorocyclopentadiene | 5 | | | | 560 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1037 Hexachloroethane | 5 | | | | 80 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1038 Hexanone [2-] | 5 | | | | | mg/kg | 5 | 0.02 | 0.02 | | | |
| 1039 Indeno[1,2,3-cd]pyrene | 5 | | | | 0.41 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1040 Isophorone | 5 | | | | 7,400 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1041 Isopropylbenzene | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1042 Isopropyltoluene [4-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1043 Lead | 5 | 5 | 15 | 110 | 500 | mg/kg | | | | | 5 | |
| 1044 Methyl iodide | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1045 Methyl-2-pentanone [4-] | 5 | | | | 510 | mg/kg | 5 | 0.02 | 0.02 | | 5 | |
| 1046 Methyl-4,6-dinitrophenol [2-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1047 Methylene chloride | 5 | | | | 5.6 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1048 Methylnaphthalene [2-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1049 Methylphenol [2-] | 5 | | | | 4,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1050 Methylphenol [4-] | 5 | | | | 400 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1051 Naphthalene | 5 | | | | 3,200 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1052 Nitroaniline [2-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1053 Nitroaniline [3-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1054 Nitroaniline [4-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1055 Nitrobenzene | 5 | | | | 5.3 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1056 Nitrophenol [2-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1057 Nitrophenol [4-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1058 Nitrosodi-n-propylamine [N-] | 5 | | | | 0.1 | mg/kg | 5 | 0.33 | 0.33 | | | 5 |
| 1059 Nitrosodimethylamine [N-] | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1060 Nitrosodiphenylamine [N-] | 5 | | | | 140 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1061 Pentachlorophenol | 5 | | | | 5.8 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1062 Petroleum Hydrocarbons, Total Recoverable | 5 | 3 | 8 | 14 | | mg/kg | 2 | 1 | 1 | | | |
| 1063 Phenanthrene | 5 | | | | | mg/kg | 5 | 0.33 | 0.33 | | | |
| 1064 Phenol | 5 | | | | 48,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1065 Propylbenzene | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1066 Pyrene | 5 | | | | 2,400 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1067 Styrene | 5 | | | | 16,000 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1068 Tetrachloroethane [1,1,1,2-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1069 Tetrachloroethane [1,1,2,2-] | 5 | | | | 3.9 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1070 Tetrachloroethylene | 5 | | | | 5.9 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1071 Toluene | 5 | | | | 890 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1072 Trichloro-1,2,2-trifluoroethane [1,1,2-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1073 Trichlorobenzene [1,2,4-] | 5 | | | | 160 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1074 Trichloroethane [1,1,1-] | 5 | | | | 1,000 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1075 Trichloroethane [1,1,2-] | 5 | | | | 6.3 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1076 Trichloroethene | 5 | | | | 3.2 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| 1077 Trichlorofluoromethane | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1078 Trichlorophenol [2,4,5-] | 5 | | | | 8,000 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1079 Trichlorophenol [2,4,6-] | 5 | | | | 64 | mg/kg | 5 | 0.33 | 0.33 | | 5 | |
| 1080 Trichloropropane [1,2,3-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1081 Trimethylbenzene [1,2,4-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1082 Trimethylbenzene [1,3,5-] | 5 | | | | | mg/kg | 5 | 0.005 | 0.005 | | | |
| 1083 Vinyl chloride | 5 | | | | 0.012 | mg/kg | 5 | 0.01 | 0.01 | | 5 | |
| 1084 Xylenes (o + m + p) [Mixed-] | 5 | | | | 160,000 | mg/kg | 5 | 0.005 | 0.005 | | 5 | |
| **00-032 UST-4** | | | | | | | | | | | | |
| 1085 Acenaphthene | 3 | | | | 4,800 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1086 Acenaphthylene | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1087 Acetone | 3 | | | | 8,000 | mg/kg | 3 | 0.02 | 0.028 | | 3 | |
| 1088 Aniline | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1089 Anthracene | 3 | | | | 24,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1090 Azobenzene | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1091 Benzene | 3 | | | | 0.67 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1092 Benzidine [m-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1093 Benzo[a]anthracene | 3 | | | | 0.64 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1094 Benzo[a]pyrene | 3 | | | | 0.1 | mg/kg | 3 | 0.33 | 0.33 | | | 3 |
| 1095 Benzo[b]fluoranthene | 3 | | | | 0.7 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1096 Benzo[g,h,i]perylene | 3 | | | | 44 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1097 Benzo[k]fluoranthene | 3 | | | | 1.5 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1098 Benzoic acid | 3 | | | | 320,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1099 Benzyl alcohol | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1100 Bis(2-chloroethoxy)methane | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1101 Bis(2-chloroethyl)ether | 3 | | | | 0.12 | mg/kg | 3 | 0.33 | 0.33 | | | 3 |
| 1102 Bis(2-chloroisopropyl)ether | 3 | | | | 100 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1103 Bis(2-ethylhexyl)phthalate | 3 | | | | 50 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1104 Bromobenzene | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1105 Bromochloromethane | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1106 Bromodichloromethane | 3 | | | | 11 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1107 Bromoform | 3 | | | | 89 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1108 Bromomethane | 3 | | | | 0.43 | mg/kg | 3 | 0.01 | 0.014 | | 3 | |
| 1109 Bromophenylphenyl ether [4-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1110 Butanone [2-] | 3 | | | | 4,000 | mg/kg | 3 | 0.02 | 0.028 | | 3 | |
| 1111 Butyl benzyl phthalate | 3 | | | | 16,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1112 Butylbenzene [n-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1113 Butylbenzene [sec-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1114 Butylbenzene [tert-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1115 Carbon disulfide | 3 | | | | 7.4 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1116 Carbon tetrachloride | 3 | | | | 0.21 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1117 Chloro-3-methylphenol [4-] | 3 | | | | 16,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1118 Chloroaniline [4-] | 3 | | | | 320 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1119 Chlorobenzene | 3 | | | | 67 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1120 Chlorodibromomethane | 3 | | | | 83 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1121 Chloroethane | 3 | | | | 3,300 | mg/kg | 3 | 0.01 | 0.014 | | 3 | |
| 1122 Chloroform | 3 | | | | 0.21 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1123 Chloromethane | 3 | | | | 6.4 | mg/kg | 3 | 0.01 | 0.014 | | 3 | |
| 1124 Chloronaphthalene [2-] | 3 | | | | 6,400 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1125 Chlorophenol [o-] | 3 | | | | 400 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1126 Chlorophenylphenyl ether [4-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1127 Chlorotoluene [o-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1128 Chlorotoluene [p-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1129 Chromium | 4 | 4 | 12 | 14 | 400 | mg/kg | | | | | 4 | |
| 1130 Chrysene | 3 | | | | 22 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1131 Di-n-butyl phthalate | 3 | | | | 8,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1132 Di-n-octyl phthalate | 3 | | | | 1,600 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1133 Dibenzo[a,h]anthracene | 3 | | | | 0.086 | mg/kg | 3 | 0.33 | 0.33 | | | 3 |
| 1134 Dibenzofuran | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1135 Dibromo-3-chloropropane [1,2-] | 3 | | | | | mg/kg | 3 | 0.01 | 0.014 | | | |
| 1136 Dibromoethane [1,2-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1137 Dibromomethane | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1138 Dichlorobenzene (1,2) [o-] | 6 | | | | 1,600 | mg/kg | 6 | 0.005 | 0.33 | | 6 | |
| 1139 Dichlorobenzene (1,3) [m-] | 6 | | | | 7,200 | mg/kg | 6 | 0.005 | 0.33 | | 6 | |
| 1140 Dichlorobenzene (1,4) [p-] | 6 | | | | 290 | mg/kg | 6 | 0.005 | 0.33 | | 6 | |
| 1141 Dichlorobenzidine [3,3'-] | 3 | | | | 1.6 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1142 Dichlorodifluoromethane | 3 | | | | | mg/kg | 3 | 0.01 | 0.014 | | | |
| 1143 Dichloroethane [1,1-] | 3 | | | | 410 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1144 Dichloroethane [1,2-] | 3 | | | | 0.2 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1145 Dichloroethene [1,1-] | 3 | | | | 0.4 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1146 Dichloroethene [trans-1,2-] | 3 | | | | 1,600 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1147 Dichloroethylene [cis-1,2-] | 3 | | | | 800 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1148 Dichlorophenol [2,4-] | 3 | | | | 240 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1149 Dichloropropane [1,2-] | 3 | | | | 6.5 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1150 Dichloropropane [1,3-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1151 Dichloropropane [2,2-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1152 Dichloropropene [1,1-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1153 Dichloropropene [cis-1,3-] | 3 | | | | 0.17 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1154 Dichloropropene [trans-1,3-] | 3 | | | | 0.17 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1155 Diethyl phthalate | 3 | | | | 64,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1156 Dimethyl phthalate | 3 | | | | 800,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1157 Dimethylphenol [2,4-] | 3 | | | | 1,600 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1158 Dinitrophenol [2,4-] | 3 | | | | 160 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1159 Dinitrotoluene [2,4-] | 3 | | | | 1 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1160 Dinitrotoluene [2,6-] | 3 | | | | 1 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1161 Ethylbenzene | 3 | | | | 3,100 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1162 Fluoranthene | 3 | | | | 3,200 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1163 Fluorene | 3 | | | | 3,200 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1164 Hexachlorobenzene | 3 | | | | 0.44 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1165 Hexachlorobutadiene | 3 | | | | 90 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1166 Hexachlorocyclopentadiene | 3 | | | | 560 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1167 Hexachloroethane | 3 | | | | 80 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1168 Hexanone [2-] | 3 | | | | | mg/kg | 3 | 0.02 | 0.028 | | | |
| 1169 Indeno[1,2,3-cd]pyrene | 3 | | | | 0.41 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1170 Isophorone | 3 | | | | 7,400 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1171 Isopropylbenzene | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1172 Isopropyltoluene [4-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1173 Lead | 4 | 4 | 12 | 15 | 500 | mg/kg | | | | | 4 | |
| 1174 Methyl iodide | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1175 Methyl-2-pentanone [4-] | 3 | | | | 510 | mg/kg | 3 | 0.02 | 0.028 | | 3 | |
| 1176 Methyl-4,6-dinitrophenol [2-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1177 Methylene chloride | 3 | | | | 5.6 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1178 Methylnaphthalene [2-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1179 Methylphenol [2-] | 3 | | | | 4,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1180 Methylphenol [4-] | 3 | | | | 400 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1181 Naphthalene | 3 | | | | 3,200 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |

# TABLE 2-1

## SUMMARY OF OU 1071 SOIL SAMPLES

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1182 Nitroaniline [2-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1183 Nitroaniline [3-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1184 Nitroaniline [4-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1185 Nitrobenzene | 3 | | | | 5.3 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1186 Nitrophenol [2-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1187 Nitrophenol [4-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1188 Nitrosodi-n-propylamine [N-] | 3 | | | | 0.1 | mg/kg | 3 | 0.33 | 0.33 | | | 3 |
| 1189 Nitrosodimethylamine [N-] | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1190 Nitrosodiphenylamine [N-] | 3 | | | | 140 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1191 Pentachlorophenol | 3 | | | | 5.8 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1192 Petroleum Hydrocarbons, Total Recoverable | 3 | 2 | 10 | 25 | | mg/kg | 1 | 1 | 1 | | | |
| 1193 Phenanthrene | 3 | | | | | mg/kg | 3 | 0.33 | 0.33 | | | |
| 1194 Phenol | 3 | | | | 48,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1195 Propylbenzene | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1196 Pyrene | 3 | | | | 2,400 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1197 Styrene | 3 | | | | 16,000 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1198 Tetrachloroethane [1,1,1,2-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1199 Tetrachloroethane [1,1,2,2-] | 3 | | | | 3.9 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1200 Tetrachloroethylene | 3 | | | | 5.9 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1201 Toluene | 3 | | | | 890 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1202 Trichloro-1,2,2-trifluoroethane [1,1,2-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1203 Trichlorobenzene [1,2,4-] | 3 | | | | 160 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1204 Trichloroethane [1,1,1-] | 3 | | | | 1,000 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1205 Trichloroethane [1,1,2-] | 3 | | | | 6.3 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1206 Trichloroethene | 3 | | | | 3.2 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| 1207 Trichlorofluoromethane | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1208 Trichlorophenol [2,4,5-] | 3 | | | | 8,000 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1209 Trichlorophenol [2,4,6-] | 3 | | | | 64 | mg/kg | 3 | 0.33 | 0.33 | | 3 | |
| 1210 Trichloropropane [1,2,3-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1211 Trimethylbenzene [1,2,4-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1212 Trimethylbenzene [1,3,5-] | 3 | | | | | mg/kg | 3 | 0.005 | 0.007 | | | |
| 1213 Vinyl chloride | 3 | | | | 0.012 | mg/kg | 3 | 0.01 | 0.014 | | 2 | 1 |
| 1214 Xylenes (o + m + p) [Mixed-] | 3 | | | | 160,000 | mg/kg | 3 | 0.005 | 0.007 | | 3 | |
| **Total Number of Values** | **9,551** | **490** | | | | | **9,061** | | | **53** | **5,827** | **272** |

## 2.3 ADS 1078—TA-1 (Project Leader: Carl Newton)

**Western Sanitary Waste Line.** In February and March of 1994, an investigation was conducted at potential release sites (PRSs) 1-001 (s and u), the Western Sanitary Waste Line. Drilling was conducted at Locations 1A, 2, 8, and 13. Maps of the sample locations were provided in the "ER Quarterly Technical Report, January–March 1994." The most thorough characterization occurred at Location 1A because the area is undeveloped and provides very easy access (see Figure 2-1). A 25-linear-ft section of the waste line, 8-inch vitrified clay pipe with joints every 3 ft, was exposed at Location 1A. Visual inspection, field and mobile rad-van screening, and sample collection were conducted on sediment inside the pipe and fill materials surrounding the pipe. All materials, including the inside of the pipe itself, were found to be free of contamination. No contamination was detected in twenty-two boreholes at Locations 2 and 8. Results of the analyses from Borehole 8 at Location 13 near the Los Alamos Inn indicate plutonium-239 at 4.27 pCi/g in fill material at a depth of 5.0 to 6.5 ft. Eleven additional boreholes were drilled at Location 13, but no further contamination was found.

A manhole (MH No. 52) was found at the western end of the waste line (down gradient); fill material in the manhole was removed to expose the base. The manhole has a brick and mortar wall with a concrete base; the inlet and outlet points are plugged with cement. The brick and cement were field-screened and were found not to be contaminated. The concrete base of the manhole has a 2–3-mm-thick reddish (oxidized?) layer, which was analyzed and found to have the following constituents and concentrations:

| | | |
|---|---|---|
| Lead | 5,740 | mg/kg |
| Mercury | 241 | mg/kg |
| Plutonium-239 | 4.39 | pCi/g |
| Total Uranium | 1,140 | mg/kg |
| Uranium-234 | 3.86 | pCi/g |
| Uranium-238 | 1.44 | pCi/g |

Very little of the contaminated material was available for sampling, and most of it was removed during the sampling process. All of the sample was submitted for laboratory analyses; therefore, no waste remained that required management.

**Hillside 138.** Preparation for a voluntary corrective action at Hillside 138 is under way. Quantitative data collected during 1992 and 1993 indicate that the contaminants remain at or near the surface. Figures 2-2 and 2-3 provide summary information on the distribution of the concentration of plutonium and mercury at various depths and various locations at Hillside 138. Note that, in general, concentrations of plutonium and mercury decrease dramatically with depth, indicating minimal vertical migration of the contaminants. Site geomorphic conditions and soil chemistry have not been taken into account and may play an important role in the observed distribution. A map showing the sample locations is available from the Laboratory's Facility for Information Management, Analysis, and Display (Plot ID No. G101659, "OU 1078: Hillsides 138 Detail").

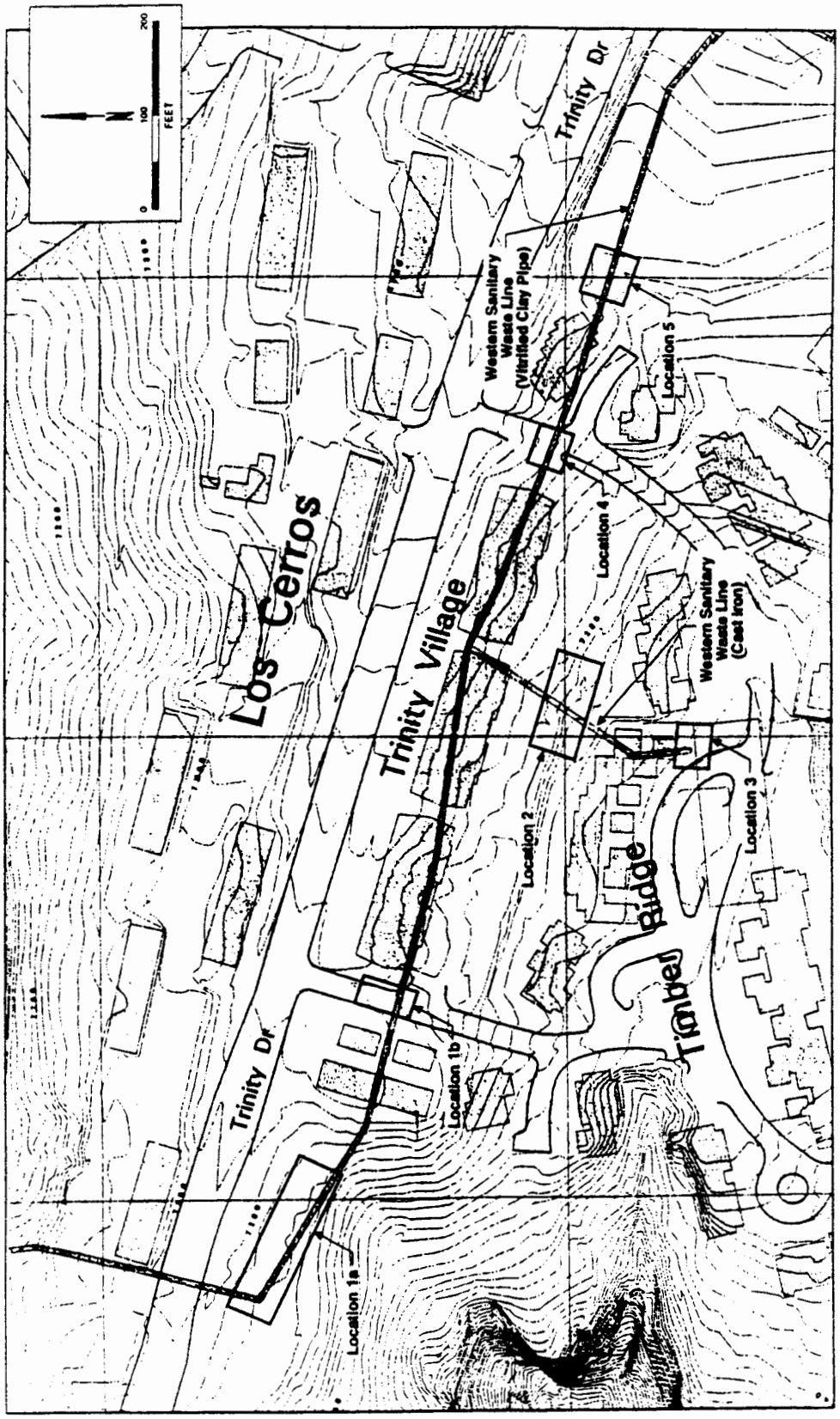
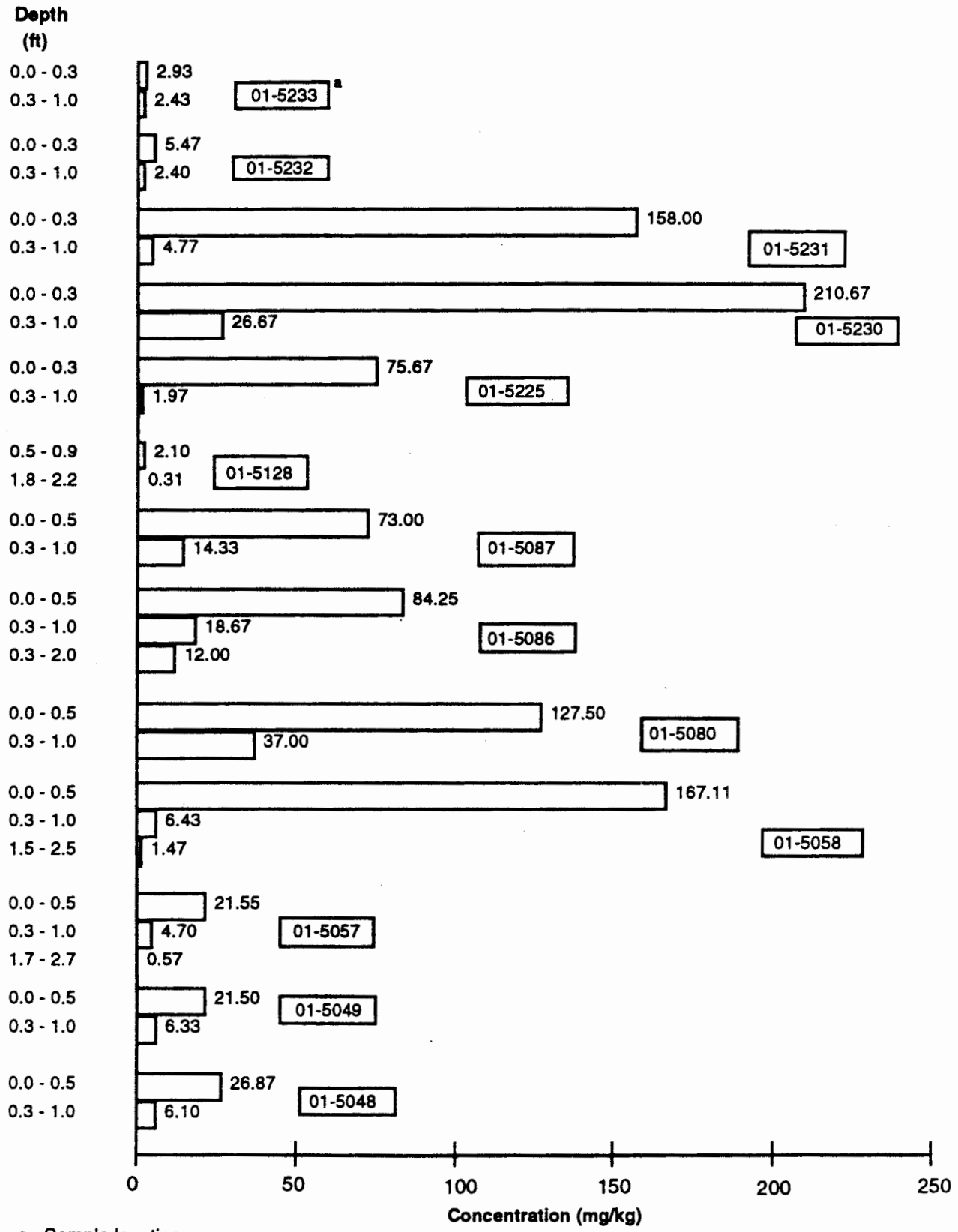
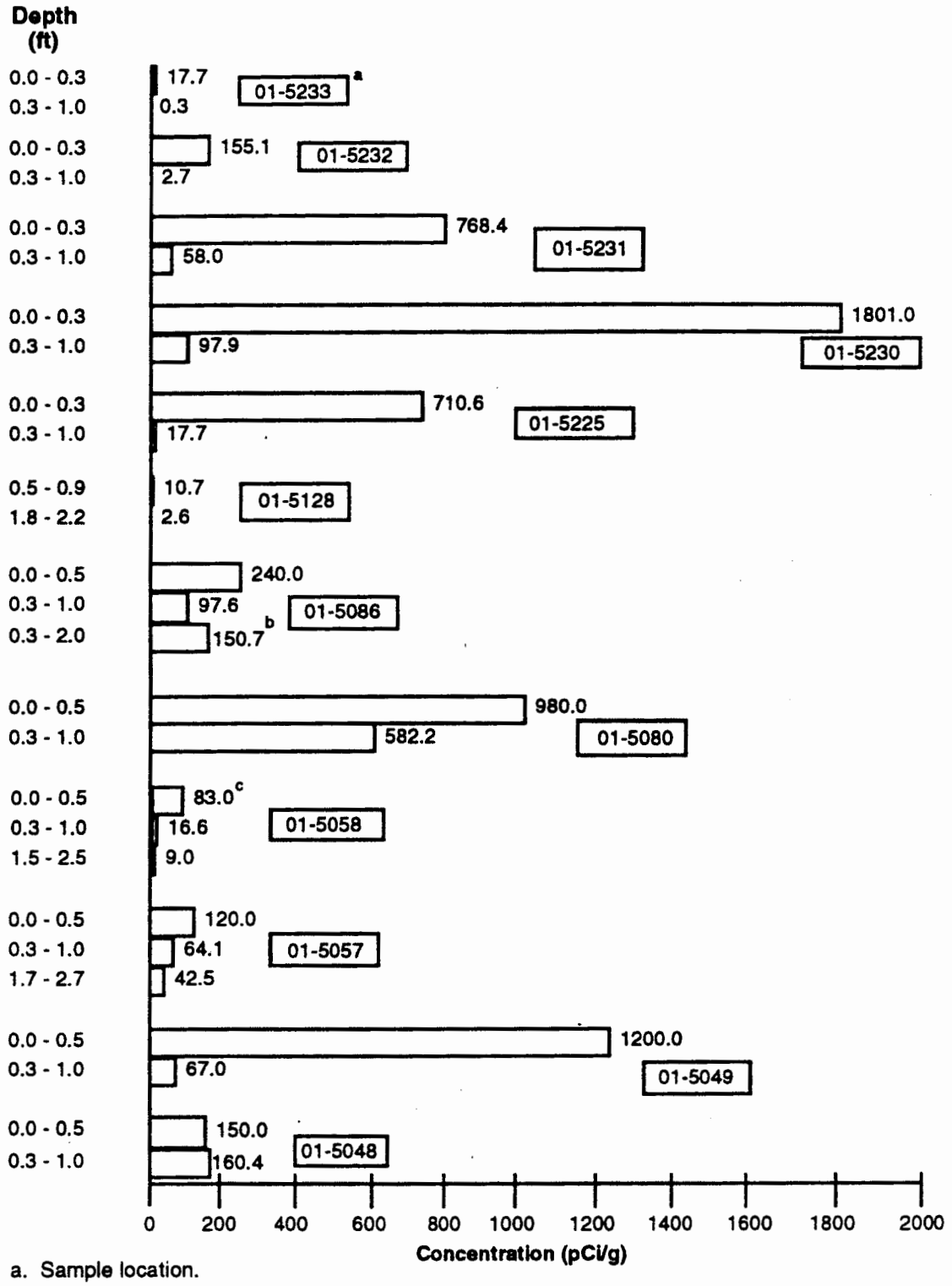



**Figure 2-1. Western Sanitary Waste Line, western portion, OU 1078.**




a. Sample location.
b. Average of multiple analyses of samples.

**Figure 2-2. Average mercury concentration with depth for Hillside 138, OU 1078[b].**




a. Sample location.
b. Average of multiple analysis of sample.
c. Quantification suspect.

**Figure 2-3. Plutonium-239 concentration with depth for Hillside 138, OU 1078.**

## 2.4 ADS 1079—TAs-10, -31, -32, -45 (Project Leader: Garry Allen)

The primary focus for ADS 1079 this past quarter has been conducting TA-10 field work and preparing the TA-45 phase report. The TA-10 Readiness Review was completed for three primary field activities: surface sampling, subsurface sampling, and shrapnel removal. Site preparation was completed in early June, and the surface sampling campaign was completed at the end of June. This involved collecting 68 samples from a predetermined sampling grid, ten random samples keyed to this grid, 32 stream transect samples, and various quality control samples. The sample points are shown on Figure 2-4.

TA-10 subsurface sampling began on June 15th with a single rotary auger rig; a second rig was added on June 20th. Twelve boreholes were completed by the end of the quarter, representing a total drilling depth of 602 feet. The completed boreholes are indicated in Figure 2-5. Negotiations with the US Fish and Wildlife Service were required before beginning our drilling operations because an endangered species was located in the vicinity of the field work.

During the field screening of the TA-10 drilling locations, OU personnel discovered several radioactive chamisa plants. This is presumably the result of radiation uptake by the deep-rooted chamisa plants growing over the former radioactive waste pits that are being investigated. The field measurements were as high as 14,000 counts per minute of beta near the roots of the plants, with fewer counts near the stems and leaves.

Because data verification problems have slowed the completion of the TA-45 Surface Phase Report and because the TA-45 subsurface data set from samples collected last summer is nearly complete, a single TA-45 Phase Report incorporating both sets of data will be produced.

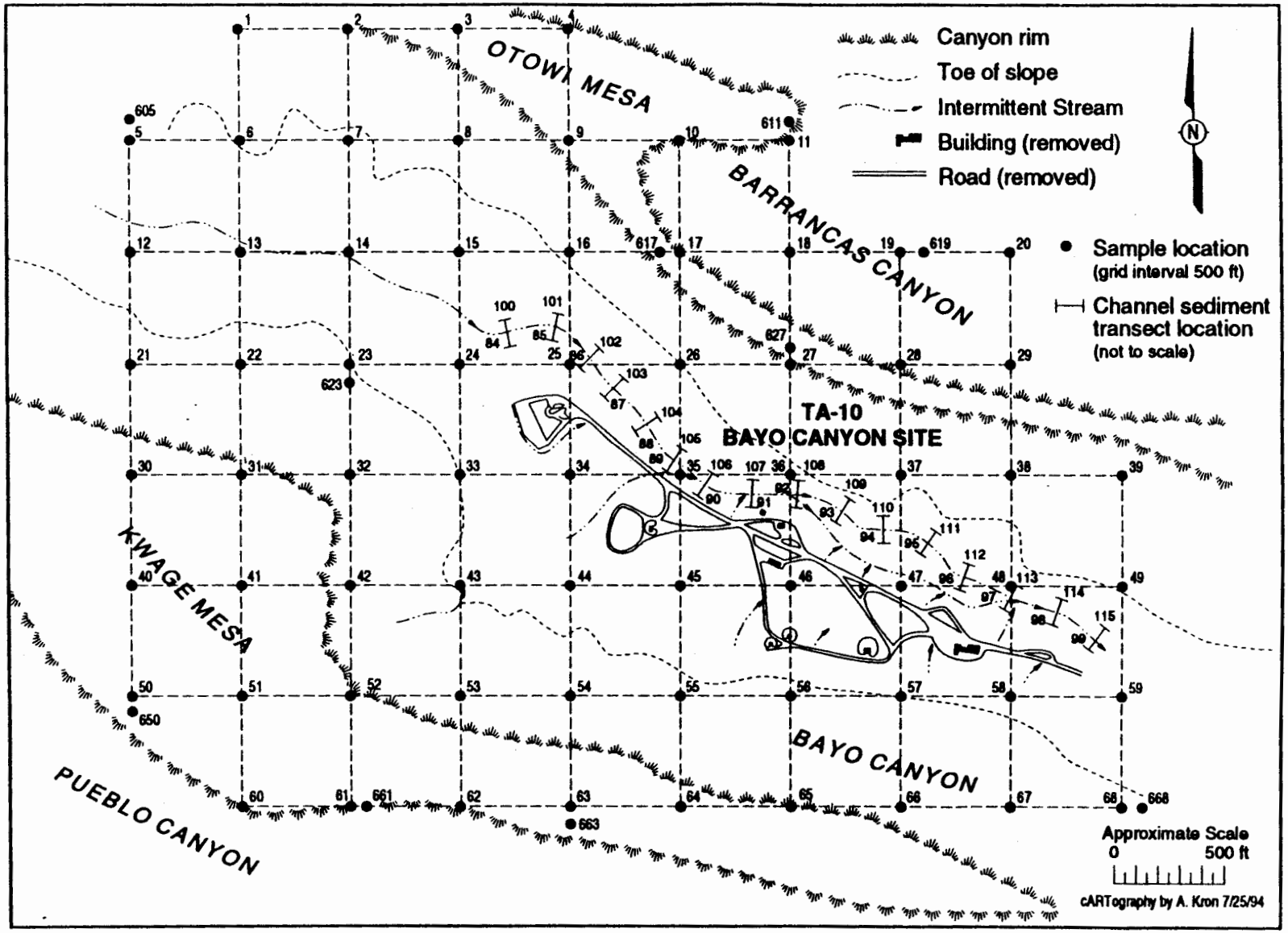



Figure 2-4. TA-10 surface sampling locations, OU 1079.

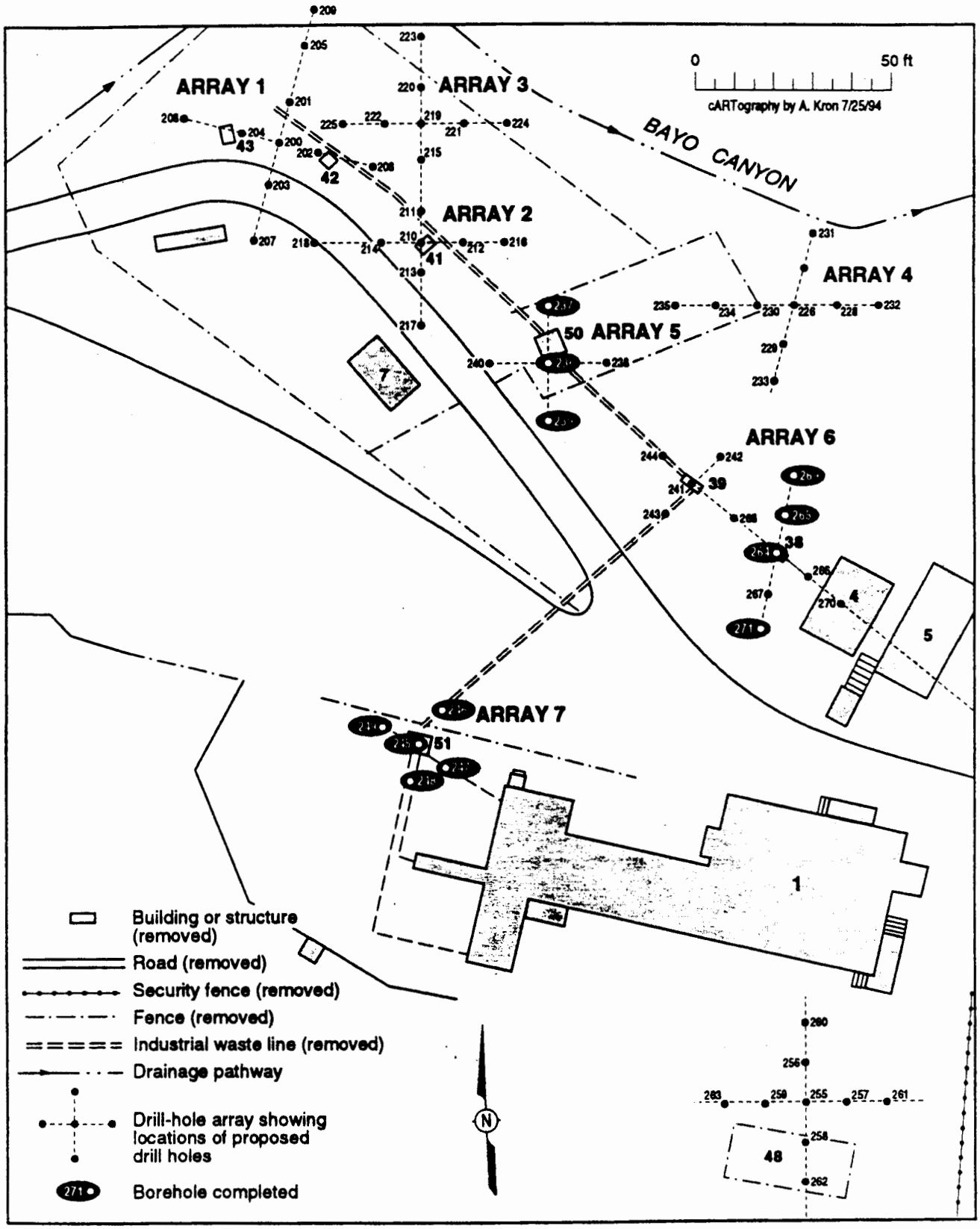



**Figure 2-5. TA-10 Main Site sampling array locations showing boreholes completed during June, OU 1079.**

### 2.5 ADS 1082—TAs-11, -13, -16, -24, -25, -28, -37 (Project Leader: Brad Martin)

Draft Volume II of the RFI work plan for OU 1082 was reviewed and edited in preparation for delivery to the EPA on schedule July 7, 1994. Work is progressing on Volume III of the RFI work plan for delivery in July 1995. Sampling activities in support of Material Disposal Area (MDA) P are on schedule.

### 2.6 ADS 1085—TAs-12, -14, -67 (Project Leader: Scott Kinkead)

Comments were incorporated from the formal US Department of Energy (DOE) review of the Resource Conservation and Recovery Act (RCRA) facility investigation (RFI) work plan for OU 1085. The final draft of the work plan was submitted to the EPA on May 23, 1994.

### 2.7 ADS 1086—TA-15 (Project Leader: Scott Kinkead)

The readiness review for the FY94 sampling season was held May 10. Final resolution has occurred on action items associated with the waste management plan and the site-specific health and safety plan. The Surv-tek crew surveyed the TA-15 site. Surface and subsurface sampling began at E-F Site in undisturbed areas on June 17; because of remaining unresolved safety questions about drilling in areas with potential subsurface high-explosive contamination, OU 1086 personnel are exploring the option of using a remotely operated vibratory drilling rig.

### 2.8 ADS 1093—TA-18 (Project Leader: Gene Gould)

The field team members entered the field on June 3. Boreholes, which total approximately 150 linear ft, have been drilled at 25 locations. More than 200 surface and subsurface samples have been collected and are being analyzed for metals, uranium, thorium, high explosives, volatile organic compounds (VOCs), and semivolatile organic compounds (SVOCs). The data from the 1993 field season are being reviewed.

### 2.9 ADS 1098—TAs-2, -41 (Project Leader: Patrick Longmire)

The technical team for OU 1098 conducted two readiness reviews for drilling five alluvial characterization boreholes and one intermediate characterization borehole. Sediment and surface-water samples were also collected as part of baseline Phase 1 activities. The intermediate characterization borehole will be drilled to a depth ranging from 230 to 400 ft; the borehole is anticipated to be completed in the Guaje Pumice Bed similar to characterization borehole LADP-3 located 1.5 mi east of TA-2. Water-level data collected during this quarter are summarized in Table 2-2. These new characterization wells are designed and constructed according to EPA specifications to supplement the existing monitor wells installed in Los Alamos Canyon in 1966. Chemical parameters measured in the field are summarized in Table 2-3. Alluvial groundwater in Los Alamos Canyon is characterized by near-neutral pH values and moderately low specific conductance and total-carbonate alkalinity. Water samples will be analyzed for major ions, trace elements, radionuclides, and organic solutes. Data collected by the Laboratory's Environmental Protection Group (ESH-8) suggest that alluvial groundwater ranges from a calcium-sodium-bicarbonate solution to a sodium chloride solution. Road salt is the primary source of sodium and chloride in this low-ionic-strength solution. There are no new results of groundwater chemistry for the quarter.

## TABLE 2-2

## WATER-LEVEL DATA FOR OU 1098 ALLUVIAL WELLS, SUMMER 1994

| Well Identification | Measuring Point | Measuring Point Elevation (ft MSL[a]) | Depth to Groundwater from Measuring Point (ft) (Installation Date) | (Pre-development Date) | 6/6/94 | (Sample Date) | 7/6/94 |
|---|---|---|---|---|---|---|---|
| LAO-B | V notch on north side of PVC[b] riser | 7325.03 | ~8.5 (4/28/94) | 8.23 (5/17/94) | 8.48 | 8.61 (6/13/94) | 8.6 |
| LAO-0.3 | V notch on north side of PVC riser | 6970.25 | Not recorded (5/27/94) | 8.05 (6/1/94) | 8.13 | 8.34 (6/14/94) | 9.11 |
| LAO-0.6 | V notch on north side of PVC riser | 6912.88 | ~7.5 (5/6/94) | 7.13 (5/23/94) | 7.14 | 7.36 (6/14/94) | 7.36 |
| LAO-0.8 | V notch on north side of PVC riser | 6889.71 | ~12.7 (5/11/94) | ~13 (6/24/94) | 13.94 | 14.33 (6/15/94) | 15.02 |
| LAO-0.91 | V notch on north side of PVC riser | 6884.79 | Not recorded; log suggests between 8—13 ft (5/13/94) | 8.72 (6/1/94) | 9.84 | 10.22 (6/16/94) | 15.92 |
| Comments | | | | | | | Los Alamos Canyon Creek dry at LAO-0.3–LAO-0.91 |

a. MSL = mean sea level.
b. PVC = polyvinyl chloride.

## TABLE 2-3

**FIELD PARAMETERS DURING GROUNDWATER SAMPLING AT OU 1098: INITIAL BASELINE SAMPLING (JUNE 13–16, 1994)**

| Well Identification | Temperature (°C) | pH (25°C) | Specific Conductance (µmhos/cm at 25°C) | Alkalinity (mg/L $CaCO_3$) |
|---|---|---|---|---|
| LAO-B | 9.2 | 6.68 | 41 | 31 |
| LAO-0.3 | 11.1 | 6.39 | 310 | 45.8 |
| LAO-0.6 | 14.6 | 6.55 | 502 | 62.3 |
| LAO-0.8 | 14.4 | 7.04 | 330 | 51.9 |
| LAO-0.91 | 14.5 | 6.6 | 321 | 56 |

### 2.10 ADS 1100—TA-53 (Project Leader: Gene Gould)

The final draft of the RFI work plan for OU 1100 was submitted to the EPA on May 23. A meeting with the New Mexico Environment Department (NMED) was held to discuss technical issues related to the TA-53 Surface Impoundments Closure Plan. The response to the NMED comments was submitted, but NMED has not issued a schedule for submitting a revised closure plan.

### 2.11 ADS 1106—TA-21 (Project Leader: Caroline Mason)

The primary focus for OU 1106 during this past quarter has been to prepare the necessary documents for the 1994 field season readiness review, to continue the evaluation of sampling data from the 1993 summer sampling and 1994 late winter sampling, and to continue activities for the preparation of the Phase Report 1B and 1C addendum. A brief summary of activities for the operable unit is presented below:

- The EPA approved Phase Report 1A for Operable Unit 1106, which included information on the geologic investigations conducted at the OU.
- The TA-21 Readiness Review was held June 1, 1994. Documents submitted for the approval process included a health and safety plan, a waste management plan, and a drilling plan.
- Analytical results from the March 1994 streambed sampling in DP Canyon indicated contaminated tritium levels, both from the main canyon and from the old sewage treatment lagoons. The TA-21 Technical Team has reviewed these results. The 1994 summer sampling will include one shallow borehole close to the streambed, in order to define the perched aquifer, and one deeper borehole close to DP Spring, in order to determine the source of the tritium.
- Analytical results from the 1993 sampling activities at TA-21, which were not received in time for inclusion in Phase Reports 1B and 1C, have undergone analyses and will be incorporated in the Phase Report 1 B and 1C addendum. Addendum 1, due March 1995, will include outfalls, MDA runoff, and LADP-3 and LADP-4 cores.

Summary statistics are provided in Tables 2-4 through 2-11 (see Section 1.0 for an explanation of these summary tables). Please note that these tables include all data received to date for each sampling event.

In addition to the analytes listed in the tables for OU 1106, other constituents were tentatively identified. The analyses for MDA T resulted in 20 tentatively identified constituents, most of which were believed to be adipic ester. For the hot outfalls, analyses resulted in 57 tentatively identified constituents, most of which were saturated hydrocarbons; 1,4-methanazulene, decahydro-4,4,8-trimethyl-9-methylene; and totarol or an isomer. For the national pollutant discharge elimination system (NPDES) outfalls, the analyses resulted in 21 tentatively identified constituents, most of which were aromatic hydrocarbons and silicone oligomers. The analyses for the shallow boreholes resulted in 50 tentatively identified constituents, most of which were saturated hydrocarbons and silicone oligomers. For LADP-3, analyses resulted in 8 tentatively identified constituents, which were believed to be saturated hydrocarbons.

# TABLE 2-4

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF GRID EXTENSION, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 9 | | | | 4,800 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 2 | Acenaphthylene | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 3 | Actinium-227 | 25 | | | | | pCi/g | 25 | 2.22 | 6.48 | | | |
| 4 | Aluminum | 22 | 22 | 3,290 | 11,500 | | mg/kg | | | | | | |
| 5 | Americium-241 | 25 | 19 | 0.01 | 0.039 | 22 | pCi/g | 6 | 0.01 | 0.01 | | 25 | |
| 6 | Anthracene | 9 | | | | 24,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 7 | Antimony | 22 | 8 | 0.27 | 0.65 | 32 | mg/kg | 14 | 0.23 | 0.3 | | 22 | |
| 8 | Arsenic | 22 | 18 | 1 | 3.2 | 0.4 | mg/kg | 4 | 0.97 | 1.2 | 18 | | 4 |
| 9 | Barium | 22 | 22 | 42 | 207 | 5,600 | mg/kg | | | | | 22 | |
| 10 | Benzo[a]anthracene | 9 | 1 | 0.82 | 0.82 | 0.64 | mg/kg | 8 | 0.38 | 0.45 | 1 | 8 | |
| 11 | Benzo[a]pyrene | 9 | 1 | 0.85 | 0.85 | 0.1 | mg/kg | 8 | 0.38 | 0.45 | 1 | | 8 |
| 12 | Benzo[b]fluoranthene | 9 | 1 | 1.4 | 1.4 | 0.7 | mg/kg | 8 | 0.38 | 0.45 | 1 | 8 | |
| 13 | Benzo[g,h,i]perylene | 9 | | | | 44 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 14 | Benzo[k]fluoranthene | 9 | 1 | 1.1 | 1.1 | 1.5 | mg/kg | 8 | 0.38 | 0.45 | | 9 | |
| 15 | Benzoic acid | 9 | | | | 320,000 | mg/kg | 9 | 1.9 | 3.5 | | 9 | |
| 16 | Benzyl alcohol | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 17 | Beryllium | 22 | 22 | 0.34 | 0.81 | 0.16 | mg/kg | | | | 22 | | |
| 18 | Bis(2-chloroethoxy)methane | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 19 | Bis(2-chloroethyl)ether | 9 | | | | 0.12 | mg/kg | 9 | 0.38 | 0.7 | | | 9 |
| 20 | Bis(2-chloroisopropyl)ether | 9 | | | | 100 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 21 | Bis(2-ethylhexyl)phthalate | 9 | | | | 50 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 22 | Bromophenylphenyl ether [4-] | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 23 | Butyl benzyl phthalate | 9 | | | | 16,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 24 | Cadmium | 22 | 8 | 0.72 | 1.3 | 80 | mg/kg | 14 | 0.7 | 0.88 | | 22 | |
| 25 | Calcium | 22 | 22 | 1,160 | 6,870 | | mg/kg | | | | | | |
| 26 | Cesium-137 | 25 | 10 | 0.73 | 1.81 | 4 | pCi/g | 15 | 0.38 | 1.23 | | 25 | |
| 27 | Chloro-3-methylphenol [4-] | 9 | | | | 16,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 28 | Chloroaniline [4-] | 9 | | | | 320 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 29 | Chloronaphthalene [2-] | 9 | | | | 6,400 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 30 | Chlorophenol [o-] | 9 | | | | 400 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 31 | Chlorophenylphenyl ether [4-] | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 32 | Chromium | 22 | 22 | 2.3 | 9.7 | 400 | mg/kg | | | | | 22 | |
| 33 | Chrysene | 9 | 2 | 0.41 | 1 | 22 | mg/kg | 7 | 0.38 | 0.45 | | 9 | |
| 34 | Cobalt | 22 | 14 | 2.4 | 7.7 | | mg/kg | 8 | 2.1 | 2.6 | | | |
| 35 | Copper | 22 | 22 | 1.8 | 26.3 | 3,000 | mg/kg | | | | | 22 | |
| 36 | Di-n-butyl phthalate | 9 | | | | 8,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 37 | Di-n-octyl phthalate | 9 | | | | 1,600 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |

# TABLE 2-4

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF GRID EXTENSION, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 38 | Dibenzo[a,h]anthracene | 9 | | | | 0.086 | mg/kg | 9 | 0.38 | 0.7 | | | 9 |
| 39 | Dibenzofuran | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 40 | Dichlorobenzene (1,2) [o-] | 9 | | | | 1,600 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 41 | Dichlorobenzene (1,3) [m-] | 9 | | | | 7,200 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 42 | Dichlorobenzene (1,4) [p-] | 9 | | | | 290 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 43 | Dichlorobenzidine [3,3'-] | 9 | | | | 1.6 | mg/kg | 9 | 0.76 | 1.4 | | 9 | |
| 44 | Dichlorophenol [2,4-] | 9 | | | | 240 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 45 | Diethyl phthalate | 9 | | | | 64,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 46 | Dimethyl phthalate | 9 | | | | 800,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 47 | Dimethylphenol [2,4-] | 9 | | | | 1,600 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 48 | Dinitrophenol [2,4-] | 9 | | | | 160 | mg/kg | 9 | 1.9 | 3.5 | | 9 | |
| 49 | Dinitrotoluene [2,4-] | 9 | | | | 1 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 50 | Dinitrotoluene [2,6-] | 9 | | | | 1 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 51 | Fluoranthene | 9 | 2 | 1.1 | 2.1 | 3,200 | mg/kg | 7 | 0.38 | 0.45 | | 9 | |
| 52 | Fluorene | 9 | | | | 3,200 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 53 | Hexachlorobenzene | 9 | | | | 0.44 | mg/kg | 9 | 0.38 | 0.7 | | 6 | 3 |
| 54 | Hexachlorobutadiene | 9 | | | | 90 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 55 | Hexachlorocyclopentadiene | 9 | | | | 560 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 56 | Hexachloroethane | 9 | | | | 80 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 57 | Indeno[1,2,3-cd]pyrene | 9 | | | | 0.41 | mg/kg | 9 | 0.38 | 0.7 | | 5 | 4 |
| 58 | Iron | 22 | 22 | 4,500 | 12,100 | | mg/kg | | | | | | |
| 59 | Isophorone | 9 | | | | 7,400 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 60 | Lead | 22 | 22 | 9.9 | 47 | 500 | mg/kg | | | | | 22 | |
| 61 | Lithium | 22 | 22 | 2.3 | 8.8 | | mg/kg | | | | | | |
| 62 | Magnesium | 22 | 22 | 602 | 2,470 | | mg/kg | | | | | | |
| 63 | Manganese | 22 | 22 | 205 | 652 | 8,000 | mg/kg | | | | | 22 | |
| 64 | Methyl-4,6-dinitrophenol [2-] | 9 | | | | | mg/kg | 9 | 1.9 | 3.5 | | | |
| 65 | Methylnaphthalene [2-] | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 66 | Methylphenol [2-] | 9 | | | | 4,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 67 | Methylphenol [4-] | 9 | | | | 400 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 68 | Molybdenum | 22 | | | | 400 | mg/kg | 22 | 6.8 | 8.6 | | 22 | |
| 69 | Naphthalene | 9 | | | | 3,200 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 70 | Nickel | 22 | 11 | 3.4 | 6.8 | 1,600 | mg/kg | 11 | 2.6 | 3.3 | | 22 | |
| 71 | Nitroaniline [2-] | 9 | | | | | mg/kg | 9 | 1.9 | 3.5 | | | |
| 72 | Nitroaniline [3-] | 9 | | | | | mg/kg | 9 | 1.9 | 3.5 | | | |
| 73 | Nitroaniline [4-] | 9 | | | | | mg/kg | 9 | 1.9 | 3.5 | | | |
| 74 | Nitrobenzene | 9 | | | | 5.3 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |

## TABLE 2-4

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF GRID EXTENSION, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 75 | Nitrophenol [2-] | 9 | | | | | mg/kg | 9 | 0.38 | 0.7 | | | |
| 76 | Nitrophenol [4-] | 9 | | | | | mg/kg | 9 | 1.9 | 3.5 | | | |
| 77 | Nitrosodi-n-propylamine [N-] | 9 | | | | 0.1 | mg/kg | 9 | 0.38 | 0.7 | | | 9 |
| 78 | Nitrosodiphenylamine [N-] | 9 | | | | 140 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 79 | Pentachlorophenol | 9 | | | | 5.8 | mg/kg | 9 | 1.9 | 3.5 | | 9 | |
| 80 | Phenanthrene | 9 | 2 | 1 | 1.2 | | mg/kg | 7 | 0.38 | 0.45 | | | |
| 81 | Phenol | 9 | | | | 48,000 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 82 | Plutonium-238 | 25 | 25 | 0.001 | 0.015 | 27 | pCi/g | | | | | 25 | |
| 83 | Plutonium-239 | 25 | 25 | 0.007 | 1.487 | 24 | pCi/g | | | | | 25 | |
| 84 | Potassium | 22 | 22 | 419 | 2,430 | | mg/kg | | | | | | |
| 85 | Pyrene | 9 | 2 | 0.94 | 1.3 | 2,400 | mg/kg | 7 | 0.38 | 0.45 | | 9 | |
| 86 | Selenium | 22 | 2 | 0.53 | 0.64 | 400 | mg/kg | 20 | 0.47 | 0.6 | | 22 | |
| 87 | Silver | 22 | 2 | 2 | 2.1 | 400 | mg/kg | 20 | 1.2 | 1.5 | | 22 | |
| 88 | Strontium | 22 | 22 | 8.7 | 39.8 | | mg/kg | | | | | | |
| 89 | Strontium-90 | 25 | | | | 8.9 | pCi/g | 25 | 1.0 | 1.0 | | 25 | |
| 90 | Thallium | 22 | | | | 6.4 | mg/kg | 22 | 0.23 | 0.3 | | 22 | |
| 91 | Trichlorobenzene [1,2,4-] | 9 | | | | 160 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 92 | Trichlorophenol [2,4,5-] | 9 | | | | 8,000 | mg/kg | 9 | 1.9 | 3.5 | | 9 | |
| 93 | Trichlorophenol [2,4,6-] | 9 | | | | 64 | mg/kg | 9 | 0.38 | 0.7 | | 9 | |
| 94 | Tritium | 25 | | | | 15,000,000 | pCi/g | 25 | 2.0 | 2.0 | | 25 | |
| 95 | Uranium-234 | 25 | 25 | 1.09 | 2.809 | 86 | pCi/g | | | | | 25 | |
| 96 | Uranium-235 | 25 | 25 | 0.04 | 0.31 | 18 | pCi/g | | | | | 25 | |
| 97 | Uranium-238 | 25 | 25 | 1.1 | 2.958 | 59 | pCi/g | | | | | 25 | |
| 98 | Vanadium | 22 | 22 | 5.2 | 22.5 | 560 | mg/kg | | | | | 22 | |
| 99 | Zinc | 22 | 22 | 21.5 | 78.9 | 24,000 | mg/kg | | | | | 22 | |
| | **Total Number of Values** | **1,363** | **559** | | | | | **804** | | | **43** | **947** | **46** |

# TABLE 2-5

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT MDA T, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 53 | | | | 4,800 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 2 | Acenaphthylene | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 3 | Actinium-227 | 31 | | | | | pCi/g | 31 | 1.83 | 5.39 | | | |
| 4 | Aluminum | 43 | 43 | 1,350 | 18,700 | | mg/kg | | | | | | |
| 5 | Americium-241 | 31 | 30 | 0.011 | 12.33 | 22 | pCi/g | 1 | 0.01 | 0.01 | | 31 | |
| 6 | Anthracene | 53 | | | | 24,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 7 | Antimony | 43 | 3 | 0.25 | 0.27 | 32 | mg/kg | 40 | 0.21 | 0.25 | | 43 | |
| 8 | Arsenic | 43 | 42 | 1 | 4.5 | 0.4 | mg/kg | 1 | 0.93 | 0.93 | 42 | | 1 |
| 9 | Barium | 43 | 43 | 0.9 | 261 | 5,600 | mg/kg | | | | | 43 | |
| 10 | Benzo[a]anthracene | 53 | | | | 0.64 | mg/kg | 53 | 0.34 | 0.72 | | 51 | 2 |
| 11 | Benzo[a]pyrene | 53 | | | | 0.1 | mg/kg | 53 | 0.34 | 0.72 | | | 53 |
| 12 | Benzo[b]fluoranthene | 53 | | | | 0.7 | mg/kg | 53 | 0.34 | 0.72 | | 51 | 2 |
| 13 | Benzo[g,h,i]perylene | 53 | | | | 44 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 14 | Benzo[k]fluoranthene | 53 | | | | 1.5 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 15 | Benzoic acid | 53 | | | | 320,000 | mg/kg | 53 | 1.7 | 3.6 | | 53 | |
| 16 | Benzyl alcohol | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 17 | Beryllium | 43 | 41 | 0.25 | 124 | 0.16 | mg/kg | 2 | 0.21 | 0.21 | 41 | | 2 |
| 18 | Bis(2-chloroethoxy)methane | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 19 | Bis(2-chloroethyl)ether | 53 | | | | 0.12 | mg/kg | 53 | 0.34 | 0.72 | | | 53 |
| 20 | Bis(2-chloroisopropyl)ether | 53 | | | | 100 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 21 | Bis(2-ethylhexyl)phthalate | 53 | 1 | 0.44 | 0.44 | 50 | mg/kg | 52 | 0.34 | 0.72 | | 53 | |
| 22 | Bromophenylphenyl ether [4-] | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 23 | Butyl benzyl phthalate | 53 | | | | 16,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 24 | Cadmium | 43 | 35 | 0.69 | 2.2 | 80 | mg/kg | 8 | 0.62 | 0.72 | | 43 | |
| 25 | Calcium | 43 | 43 | 1,320 | 7,900 | | mg/kg | | | | | | |
| 26 | Cesium-137 | 31 | 16 | 0.9 | 431.4 | 4 | pCi/g | 15 | 0.29 | 1.12 | 7 | 24 | |
| 27 | Chloro-3-methylphenol [4-] | 53 | | | | 16,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 28 | Chloroaniline [4-] | 53 | | | | 320 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 29 | Chloronaphthalene [2-] | 53 | | | | 6,400 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 30 | Chlorophenol [o-] | 53 | | | | 400 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 31 | Chlorophenylphenyl ether [4-] | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 32 | Chromium | 43 | 43 | 1.8 | 11.6 | 400 | mg/kg | | | | | 43 | |
| 33 | Chrysene | 53 | | | | 22 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 34 | Cobalt | 43 | 38 | 2.1 | 8 | | mg/kg | 5 | 1.9 | 2.1 | | | |
| 35 | Copper | 43 | 43 | 2.6 | 21.8 | 3,000 | mg/kg | | | | | 43 | |
| 36 | Di-n-butyl phthalate | 53 | | | | 8,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 37 | Di-n-octyl phthalate | 53 | | | | 1,600 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 38 | Dibenzo[a,h]anthracene | 53 | | | | 0.086 | mg/kg | 53 | 0.34 | 0.72 | | | 53 |

## TABLE 2-5

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT MDA T, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | Dibenzofuran | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 40 | Dichlorobenzene (1,2) [o-] | 53 | | | | 1,600 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 41 | Dichlorobenzene (1,3) [m-] | 53 | | | | 7,200 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 42 | Dichlorobenzene (1,4) [p-] | 53 | | | | 290 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 43 | Dichlorobenzidine [3,3'-] | 53 | | | | 1.6 | mg/kg | 53 | 0.44 | 1.4 | | 53 | |
| 44 | Dichlorophenol [2,4-] | 53 | | | | 240 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 45 | Diethyl phthalate | 53 | | | | 64,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 46 | Dimethyl phthalate | 53 | | | | 800,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 47 | Dimethylphenol [2,4-] | 53 | | | | 1,600 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 48 | Dinitrophenol [2,4-] | 53 | | | | 160 | mg/kg | 53 | 1.7 | 3.6 | | 53 | |
| 49 | Dinitrotoluene [2,4-] | 53 | | | | 1 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 50 | Dinitrotoluene [2,6-] | 53 | | | | 1 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 51 | Fluoranthene | 53 | | | | 3,200 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 52 | Fluorene | 53 | | | | 3,200 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 53 | Hexachlorobenzene | 53 | | | | 0.44 | mg/kg | 53 | 0.34 | 0.72 | | 51 | 2 |
| 54 | Hexachlorobutadiene | 53 | | | | 90 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 55 | Hexachlorocyclopentadiene | 53 | | | | 560 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 56 | Hexachloroethane | 53 | | | | 80 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 57 | Indeno[1,2,3-cd]pyrene | 53 | | | | 0.41 | mg/kg | 53 | 0.34 | 0.72 | | 50 | 3 |
| 58 | Iron | 43 | 43 | 4,010 | 15,700 | | mg/kg | | | | | | |
| 59 | Isophorone | 53 | | | | 7,400 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 60 | Lead | 43 | 43 | 6.1 | 22.1 | 500 | mg/kg | | | | | 43 | |
| 61 | Lithium | 43 | 43 | 2 | 14.8 | | mg/kg | | | | | | |
| 62 | Magnesium | 43 | 43 | 665 | 2,690 | | mg/kg | | | | | | |
| 63 | Manganese | 43 | 43 | 118 | 479 | 8,000 | mg/kg | | | | | 43 | |
| 64 | Methyl-4,6-dinitrophenol [2-] | 53 | | | | | mg/kg | 53 | 1.7 | 3.6 | | | |
| 65 | Methylnaphthalene [2-] | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 66 | Methylphenol [2-] | 53 | | | | 4,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 67 | Methylphenol [4-] | 53 | | | | 400 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 68 | Molybdenum | 43 | | | | 400 | mg/kg | 43 | 6 | 7.4 | | 43 | |
| 69 | Naphthalene | 53 | | | | 3,200 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 70 | Nickel | 43 | 40 | 3.1 | 10.8 | 1,600 | mg/kg | 3 | 2.4 | 2.6 | | 43 | |
| 71 | Nitroaniline [2-] | 53 | | | | | mg/kg | 53 | 1.7 | 3.6 | | | |
| 72 | Nitroaniline [3-] | 53 | | | | | mg/kg | 53 | 1.7 | 3.6 | | | |
| 73 | Nitroaniline [4-] | 53 | | | | | mg/kg | 53 | 1.7 | 3.6 | | | |
| 74 | Nitrobenzene | 53 | | | | 5.3 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 75 | Nitrophenol [2-] | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 76 | Nitrophenol [4-] | 53 | | | | | mg/kg | 53 | 1.7 | 3.6 | | | |

## TABLE 2-5

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT MDA T, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Nitrosodi-n-propylamine [N-] | 53 | | | | 0.1 | mg/kg | 53 | 0.34 | 0.72 | | | 53 |
| 78 | Nitrosodiphenylamine [N-] | 53 | | | | 140 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 79 | Pentachlorophenol | 53 | | | | 5.8 | mg/kg | 53 | 1.7 | 3.6 | | 53 | |
| 80 | Phenanthrene | 53 | | | | | mg/kg | 53 | 0.34 | 0.72 | | | |
| 81 | Phenol | 53 | | | | 48,000 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 82 | Plutonium-238 | 31 | 28 | 0.015 | 1.82 | 27 | pCi/g | 3 | 0.01 | 0.01 | | 31 | |
| 83 | Plutonium-239 | 31 | 30 | 0.025 | 47.94 | 24 | pCi/g | 1 | 0.01 | 0.01 | 2 | 29 | |
| 84 | Potassium | 43 | 43 | 589 | 2,350 | | mg/kg | | | | | | |
| 85 | Pyrene | 53 | | | | 2,400 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 86 | Selenium | 43 | 1 | 0.7 | 0.7 | 400 | mg/kg | 42 | 0.41 | 0.51 | | 43 | |
| 87 | Silver | 43 | 2 | 1.3 | 1.3 | 400 | mg/kg | 41 | 1 | 1.3 | | 43 | |
| 88 | Strontium | 43 | 43 | 5.3 | 32.6 | | mg/kg | | | | | | |
| 89 | Strontium-90 | 31 | 7 | 1.96 | 239.7 | 8.9 | pCi/g | 24 | 1.0 | 1.0 | 3 | 28 | |
| 90 | Thallium | 43 | 1 | 0.24 | 0.24 | 6.4 | mg/kg | 42 | 0.21 | 0.25 | | 43 | |
| 91 | Trichlorobenzene [1,2,4-] | 53 | | | | 160 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 92 | Trichlorophenol [2,4,5-] | 53 | | | | 8,000 | mg/kg | 53 | 1.7 | 3.6 | | 53 | |
| 93 | Trichlorophenol [2,4,6-] | 53 | | | | 64 | mg/kg | 53 | 0.34 | 0.72 | | 53 | |
| 94 | Tritium | 31 | | | | 15,000,000 | pCi/g | 31 | 2 | 2 | | 31 | |
| 95 | Uranium-234 | 31 | 31 | 0.868 | 2.738 | 86 | pCi/g | | | | | 31 | |
| 96 | Uranium-235 | 31 | 31 | 0.043 | 0.38 | 18 | pCi/g | | | | | 31 | |
| 97 | Uranium-238 | 31 | 31 | 0.872 | 2.03 | 59 | pCi/g | | | | | 31 | |
| 98 | Vanadium | 43 | 43 | 5.6 | 26 | 560 | mg/kg | | | | | 43 | |
| 99 | Zinc | 43 | 43 | 17.9 | 132 | 24,000 | mg/kg | | | | | 43 | |
| | **Total Number of Values** | **4,787** | **1,010** | | | | | **3,777** | | | **95** | **3,351** | **224** |

## TABLE 2-6

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT HOT OUTFALLS, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 15 | | | | 4,800 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 2 | Acenaphthylene | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 3 | Anthracene | 15 | | | | 24,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 4 | Benzo[a]anthracene | 15 | | | | 0.64 | mg/kg | 15 | 0.66 | 0.66 | | | 15 |
| 5 | Benzo[a]pyrene | 15 | | | | 0.1 | mg/kg | 15 | 0.66 | 0.66 | | | 15 |
| 6 | Benzo[b]fluoranthene | 15 | | | | 0.7 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 7 | Benzo[g,h,i]perylene | 15 | | | | 44 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 8 | Benzo[k]fluoranthene | 15 | | | | 1.5 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 9 | Benzoic acid | 15 | | | | 320,000 | mg/kg | 15 | 3.3 | 3.3 | | 15 | |
| 10 | Benzyl alcohol | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 11 | Bis(2-chloroethoxy)methane | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 12 | Bis(2-chloroethyl)ether | 15 | | | | 0.12 | mg/kg | 15 | 0.66 | 0.66 | | | 15 |
| 13 | Bis(2-chloroisopropyl)ether | 15 | | | | 100 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 14 | Bis(2-ethylhexyl)phthalate | 15 | 2 | 1.9 | 9.2 | 50 | mg/kg | 13 | 0.66 | 0.66 | | 15 | |
| 15 | Bromophenylphenyl ether [4-] | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 16 | Butyl benzyl phthalate | 15 | | | | 16,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 17 | Chloro-3-methylphenol [4-] | 15 | | | | 16,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 18 | Chloroaniline [4-] | 15 | | | | 320 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 19 | Chloronaphthalene [2-] | 15 | | | | 6,400 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 20 | Chlorophenol [o-] | 15 | | | | 400 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 21 | Chlorophenylphenyl ether [4-] | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 22 | Chrysene | 15 | | | | 22 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 23 | Di-n-butyl phthalate | 15 | | | | 8,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 24 | Di-n-octyl phthalate | 15 | | | | 1,600 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 25 | Dibenzo[a,h]anthracene | 15 | | | | 0.086 | mg/kg | 15 | 0.66 | 0.66 | | | 15 |
| 26 | Dibenzofuran | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 27 | Dichlorobenzene (1,2) [o-] | 15 | | | | 1,600 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 28 | Dichlorobenzene (1,3) [m-] | 15 | | | | 7,200 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 29 | Dichlorobenzene (1,4) [p-] | 15 | | | | 290 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 30 | Dichlorobenzidine [3,3'-] | 15 | | | | 1.6 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 31 | Dichlorophenol [2,4-] | 15 | | | | 240 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 32 | Diethyl phthalate | 15 | | | | 64,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 33 | Dimethyl phthalate | 15 | | | | 800,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 34 | Dimethylphenol [2,4-] | 15 | | | | 1,600 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 35 | Dinitrophenol [2,4-] | 15 | | | | 160 | mg/kg | 15 | 3.3 | 3.3 | | 15 | |
| 36 | Dinitrotoluene [2,4-] | 15 | | | | 1 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 37 | Dinitrotoluene [2,6-] | 15 | | | | 1 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 38 | Fluoranthene | 15 | | | | 3,200 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |

## TABLE 2-6

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT HOT OUTFALLS, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | Fluorene | 15 | | | | 3,200 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 40 | Hexachlorobenzene | 15 | | | | 0.44 | mg/kg | 15 | 0.66 | 0.66 | | | 15 |
| 41 | Hexachlorobutadiene | 15 | | | | 90 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 42 | Hexachlorocyclopentadiene | 15 | | | | 560 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 43 | Hexachloroethane | 15 | | | | 80 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 44 | Indeno[1,2,3-cd]pyrene | 15 | | | | 0.41 | mg/kg | 15 | 0.66 | 0.66 | | | 15 |
| 45 | Isophorone | 15 | | | | 7,400 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 46 | Methyl-4,6-dinitrophenol [2-] | 15 | | | | | mg/kg | 15 | 3.3 | 3.3 | | | |
| 47 | Methylnaphthalene [2-] | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 48 | Methylphenol [2-] | 15 | | | | 4,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 49 | Methylphenol [4-] | 15 | | | | 400 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 50 | Naphthalene | 15 | | | | 3,200 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 51 | Nitroaniline [2-] | 15 | | | | | mg/kg | 15 | 3.3 | 3.3 | | | |
| 52 | Nitroaniline [3-] | 15 | | | | | mg/kg | 15 | 3.3 | 3.3 | | | |
| 53 | Nitroaniline [4-] | 15 | | | | | mg/kg | 15 | 3.3 | 3.3 | | | |
| 54 | Nitrobenzene | 15 | | | | 5.3 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 55 | Nitrophenol [2-] | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 56 | Nitrophenol [4-] | 15 | | | | | mg/kg | 15 | 3.3 | 3.3 | | | |
| 57 | Nitrosodi-n-propylamine [N-] | 15 | | | | 0.1 | mg/kg | 15 | 0.66 | 0.66 | | | 15 |
| 58 | Nitrosodiphenylamine [N-] | 15 | | | | 140 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 59 | Pentachlorophenol | 15 | | | | 5.8 | mg/kg | 15 | 3.3 | 3.3 | | 15 | |
| 60 | Phenanthrene | 15 | | | | | mg/kg | 15 | 0.66 | 0.66 | | | |
| 61 | Phenol | 15 | | | | 48,000 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 62 | Pyrene | 15 | | | | 2,400 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 63 | Trichlorobenzene [1,2,4-] | 15 | | | | 160 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| 64 | Trichlorophenol [2,4,5-] | 15 | | | | 8,000 | mg/kg | 15 | 3.3 | 3.3 | | 15 | |
| 65 | Trichlorophenol [2,4,6-] | 15 | | | | 64 | mg/kg | 15 | 0.66 | 0.66 | | 15 | |
| | **Total Number of Values** | **975** | **2** | | | | | **973** | | | **0** | **660** | **105** |

# TABLE 2-7

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT NPDES OUTFALLS, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 27 | 1 | 11 | 11 | 4,800 | mg/kg | 26 | 0.33 | 1.8 | | 27 | |
| 2 | Acenaphthylene | 27 | | | | | mg/kg | 27 | 0.33 | 4.7 | | | |
| 3 | Acetone | 27 | 6 | 0.021 | 0.089 | 8,000 | mg/kg | 21 | 0.02 | 0.02 | | 27 | |
| 4 | Aluminum | 27 | 27 | 346 | 21,300 | | mg/kg | | | | | | |
| 5 | Anthracene | 27 | 2 | 0.46 | 21 | 24,000 | mg/kg | 25 | 0.33 | 1.8 | | 27 | |
| 6 | Antimony | 26 | 1 | 0.39 | 0.39 | 32 | mg/kg | 25 | 0.2 | 0.63 | | 26 | |
| 7 | Arsenic | 27 | 15 | 1.1 | 13 | 0.4 | mg/kg | 12 | 0.93 | 2.1 | 15 | | 12 |
| 8 | Barium | 27 | 19 | 2.5 | 242 | 5,600 | mg/kg | 8 | 2.1 | 47.1 | | 27 | |
| 9 | Benzene | 27 | | | | 0.67 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 10 | Benzo[a]anthracene | 27 | 7 | 0.42 | 98 | 0.64 | mg/kg | 20 | 0.33 | 1.8 | 3 | 22 | 2 |
| 11 | Benzo[a]pyrene | 27 | 5 | 0.44 | 74 | 0.1 | mg/kg | 22 | 0.33 | 1.8 | 5 | | 22 |
| 12 | Benzo[b]fluoranthene | 27 | 6 | 0.37 | 76 | 0.7 | mg/kg | 21 | 0.33 | 1.8 | 3 | 22 | 2 |
| 13 | Benzo[g,h,i]perylene | 27 | 3 | 1.3 | 37 | 44 | mg/kg | 24 | 0.33 | 1.8 | | 27 | |
| 14 | Benzo[k]fluoranthene | 27 | 4 | 0.55 | 66 | 1.5 | mg/kg | 23 | 0.33 | 1.8 | 3 | 23 | 1 |
| 15 | Benzoic acid | 27 | | | | 320,000 | mg/kg | 27 | 1.6 | 24 | | 27 | |
| 16 | Benzyl alcohol | 27 | | | | | mg/kg | 27 | 0.33 | 4.7 | | | |
| 17 | Beryllium | 27 | 10 | 0.23 | 1.7 | 0.16 | mg/kg | 17 | 0.22 | 0.41 | 10 | | 17 |
| 18 | Bis(2-chloroethoxy)methane | 27 | | | | | mg/kg | 27 | 0.33 | 4.7 | | | |
| 19 | Bis(2-chloroethyl)ether | 27 | | | | 0.12 | mg/kg | 27 | 0.33 | 4.7 | | | 27 |
| 20 | Bis(2-chloroisopropyl)ether | 27 | | | | 100 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 21 | Bis(2-ethylhexyl)phthalate | 27 | 6 | 0.53 | 10 | 50 | mg/kg | 21 | 0.33 | 1.8 | | 27 | |
| 22 | Bromobenzene | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 23 | Bromochloromethane | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 24 | Bromodichloromethane | 27 | | | | 11 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 25 | Bromoform | 27 | | | | 89 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 26 | Bromomethane | 27 | | | | 0.43 | mg/kg | 27 | 0.01 | 0.01 | | 27 | |
| 27 | Bromophenylphenyl ether [4-] | 27 | | | | | mg/kg | 27 | 0.33 | 4.7 | | | |
| 28 | Butanone [2-] | 27 | | | | 4,000 | mg/kg | 27 | 0.02 | 0.02 | | 27 | |
| 29 | Butyl benzyl phthalate | 27 | | | | 16,000 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 30 | Butylbenzene [n-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 31 | Butylbenzene [sec-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 32 | Butylbenzene [tert-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 33 | Cadmium | 27 | 12 | 0.73 | 12.4 | 80 | mg/kg | 15 | 0.6 | 0.86 | | 27 | |
| 34 | Calcium | 27 | 22 | 207 | 15,000 | | mg/kg | 5 | 180 | 1,240 | | | |
| 35 | Carbon disulfide | 27 | 4 | 0.0092 | 0.035 | 7.4 | mg/kg | 23 | 0.005 | 0.005 | | 27 | |
| 36 | Carbon tetrachloride | 27 | | | | 0.21 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 37 | Chloro-3-methylphenol [4-] | 27 | | | | 16,000 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 38 | Chloroaniline [4-] | 27 | | | | 320 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 39 | Chlorobenzene | 27 | | | | 67 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |

## TABLE 2-7

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT NPDES OUTFALLS, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | Chlorodibromomethane | 27 | | | | 83 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 41 | Chloroethane | 27 | | | | 3,300 | mg/kg | 27 | 0.01 | 0.01 | | 27 | |
| 42 | Chloroform | 27 | | | | 0.21 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 43 | Chloromethane | 27 | | | | 6.4 | mg/kg | 27 | 0.01 | 0.01 | | 27 | |
| 44 | Chloronaphthalene [2-] | 27 | | | | 6,400 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 45 | Chlorophenol [o-] | 27 | | | | 400 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 46 | Chlorophenylphenyl ether [4-] | 27 | | | | | mg/kg | 27 | 0.33 | 4.7 | | | |
| 47 | Chlorotoluene [o-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 48 | Chlorotoluene [p-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 49 | Chromium | 27 | 24 | 1.1 | 184 | 400 | mg/kg | 3 | 0.98 | 0.98 | | 27 | |
| 50 | Chrysene | 27 | 7 | 0.49 | 110 | 22 | mg/kg | 20 | 0.33 | 1.8 | 1 | 26 | |
| 51 | Cobalt | 27 | 8 | 2.3 | 4.3 | | mg/kg | 19 | 1.8 | 4.6 | | | |
| 52 | Copper | 27 | 23 | 0.81 | 1,900 | 3,000 | mg/kg | 4 | 0.74 | 2.8 | | 27 | |
| 53 | Di-n-butyl phthalate | 27 | 1 | 0.77 | 0.77 | 8,000 | mg/kg | 26 | 0.33 | 4.7 | | 27 | |
| 54 | Di-n-octyl phthalate | 27 | | | | 1,600 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 55 | Dibenzo[a,h]anthracene | 27 | 3 | 0.65 | 16 | 0.086 | mg/kg | 24 | 0.33 | 1.8 | 3 | | 24 |
| 56 | Dibenzofuran | 27 | 1 | 5.8 | 5.8 | | mg/kg | 26 | 0.33 | 1.8 | | | |
| 57 | Dibromo-3-chloropropane [1,2-] | 27 | | | | | mg/kg | 27 | 0.01 | 0.01 | | | |
| 58 | Dibromoethane [1,2-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 59 | Dibromomethane | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 60 | Dichlorobenzene (1,2) [o-] | 54 | 1 | 0.15 | 0.15 | 1,600 | mg/kg | 53 | 0.005 | 4.7 | | 54 | |
| 61 | Dichlorobenzene (1,3) [m-] | 54 | | | | 7,200 | mg/kg | 54 | 0.005 | 4.7 | | 54 | |
| 62 | Dichlorobenzene (1,4) [p-] | 54 | | | | 290 | mg/kg | 54 | 0.005 | 4.7 | | 54 | |
| 63 | Dichlorobenzidine [3,3'-] | 27 | | | | 1.6 | mg/kg | 27 | 0.66 | 9.4 | | 25 | 2 |
| 64 | Dichlorodifluoromethane | 27 | | | | | mg/kg | 27 | 0.01 | 0.01 | | | |
| 65 | Dichloroethane [1,1-] | 27 | | | | 410 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 66 | Dichloroethane [1,2-] | 27 | | | | 0.2 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 67 | Dichloroethene [1,1-] | 27 | | | | 0.4 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 68 | Dichloroethene [trans-1,2-] | 27 | | | | 1,600 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 69 | Dichloroethylene [cis-1,2-] | 27 | | | | 800 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 70 | Dichlorophenol [2,4-] | 27 | | | | 240 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 71 | Dichloropropane [1,2-] | 27 | | | | 6.5 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 72 | Dichloropropane [1,3-] | 27 | 1 | 0.18 | 0.18 | | mg/kg | 26 | 0.005 | 0.005 | | | |
| 73 | Dichloropropane [2,2-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 74 | Dichloropropene [1,1-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 75 | Dichloropropene [cis-1,3-] | 27 | | | | 0.17 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 76 | Dichloropropene [trans-1,3-] | 27 | | | | 0.17 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 77 | Diethyl phthalate | 27 | | | | 64,000 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 78 | Dimethyl phthalate | 27 | | | | 800,000 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |

## TABLE 2-7

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT NPDES OUTFALLS, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79 | Dimethylphenol [2,4-] | 27 | | | | 1,600 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 80 | Dinitrophenol [2,4-] | 27 | | | | 160 | mg/kg | 27 | 1.6 | 24 | | 27 | |
| 81 | Dinitrotoluene [2,4-] | 27 | | | | 1 | mg/kg | 27 | 0.33 | 4.7 | | 25 | 2 |
| 82 | Dinitrotoluene [2,6-] | 27 | | | | 1 | mg/kg | 27 | 0.33 | 4.7 | | 25 | 2 |
| 83 | Ethylbenzene | 27 | | | | 3,100 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 84 | Fluoranthene | 27 | 10 | 0.43 | 320 | 3,200 | mg/kg | 17 | 0.33 | 1.8 | | 27 | |
| 85 | Fluorene | 27 | 1 | 11 | 11 | 3,200 | mg/kg | 26 | 0.33 | 1.8 | | 27 | |
| 86 | Hexachlorobenzene | 27 | | | | 0.44 | mg/kg | 27 | 0.33 | 4.7 | | 19 | 8 |
| 87 | Hexachlorobutadiene | 27 | | | | 90 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 88 | Hexachlorocyclopentadiene | 27 | | | | 560 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 89 | Hexachloroethane | 27 | | | | 80 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 90 | Hexanone [2-] | 27 | | | | | mg/kg | 27 | 0.02 | 0.02 | | | |
| 91 | Indeno[1,2,3-cd]pyrene | 27 | 3 | 1.3 | 38 | 0.41 | mg/kg | 24 | 0.33 | 1.8 | 3 | 12 | 12 |
| 92 | Iron | 27 | 27 | 580 | 20,800 | | mg/kg | | | | | | |
| 93 | Isophorone | 27 | | | | 7,400 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 94 | Isopropylbenzene | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 95 | Isopropyltoluene [4-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 96 | Lead | 27 | 27 | 1.9 | 392 | 500 | mg/kg | | | | | 27 | |
| 97 | Lithium | 27 | 17 | 1.7 | 18.3 | | mg/kg | 10 | 2.8 | 7.4 | | | |
| 98 | Magnesium | 27 | 18 | 54.6 | 3,010 | | mg/kg | 9 | 117 | 941 | | | |
| 99 | Manganese | 27 | 27 | 55.2 | 186 | 8,000 | mg/kg | | | | | 27 | |
| 100 | Methyl iodide | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 101 | Methyl-2-pentanone [4-] | 27 | | | | 510 | mg/kg | 27 | 0.02 | 0.02 | | 27 | |
| 102 | Methyl-4,6-dinitrophenol [2-] | 27 | | | | | mg/kg | 27 | 1.6 | 24 | | | |
| 103 | Methylene chloride | 27 | | | | 5.6 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 104 | Methylnaphthalene [2-] | 27 | | | | | mg/kg | 27 | 0.33 | 4.7 | | | |
| 105 | Methylphenol [2-] | 27 | | | | 4,000 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 106 | Methylphenol [4-] | 27 | | | | 400 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 107 | Molybdenum | 27 | 3 | 7.2 | 15.7 | 400 | mg/kg | 24 | 5.8 | 8.5 | | 27 | |
| 108 | Naphthalene | 27 | | | | 3,200 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 109 | Nickel | 27 | 17 | 2.8 | 21.1 | 1,600 | mg/kg | 10 | 2.2 | 4.2 | | 27 | |
| 110 | Nitroaniline [2-] | 27 | | | | | mg/kg | 27 | 1.6 | 24 | | | |
| 111 | Nitroaniline [3-] | 27 | | | | | mg/kg | 27 | 1.6 | 24 | | | |
| 112 | Nitroaniline [4-] | 27 | | | | | mg/kg | 27 | 1.6 | 24 | | | |
| 113 | Nitrobenzene | 27 | | | | 5.3 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 114 | Nitrophenol [2-] | 27 | | | | | mg/kg | 27 | 0.33 | 4.7 | | | |
| 115 | Nitrophenol [4-] | 27 | | | | | mg/kg | 27 | 1.6 | 24 | | | |
| 116 | Nitrosodi-n-propylamine [N-] | 27 | | | | 0.1 | mg/kg | 27 | 0.33 | 4.7 | | | 27 |
| 117 | Nitrosodiphenylamine [N-] | 27 | | | | 140 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |

## TABLE 2-7

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES AT NPDES OUTFALLS, OU 1106

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 118 Pentachlorophenol | 27 | | | | 5.8 | mg/kg | 27 | 1.6 | 24 | | 25 | 2 |
| 119 Phenanthrene | 27 | 6 | 0.42 | 160 | | mg/kg | 21 | 0.33 | 1.8 | | | |
| 120 Phenol | 27 | | | | 48,000 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 121 Potassium | 27 | 13 | 286 | 2,070 | | mg/kg | 14 | 225 | 718 | | | |
| 122 Propylbenzene | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 123 Pyrene | 27 | 9 | 0.47 | 230 | 2,400 | mg/kg | 18 | 0.33 | 1.8 | | 27 | |
| 124 Selenium | 27 | 3 | 0.53 | 0.6 | 400 | mg/kg | 24 | 0.4 | 0.58 | | 27 | |
| 125 Silver | 27 | | | | 400 | mg/kg | 27 | 1 | 1.5 | | 27 | |
| 126 Strontium | 27 | 18 | 0.97 | 68.2 | | mg/kg | 9 | 1.6 | 18.5 | | | |
| 127 Styrene | 27 | | | | 16,000 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 128 Tetrachloroethane [1,1,1,2-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 129 Tetrachloroethane [1,1,2,2-] | 27 | | | | 3.9 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 130 Tetrachloroethylene | 27 | | | | 5.9 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 131 Thallium | 27 | 3 | 0.33 | 0.38 | 6.4 | mg/kg | 24 | 0.2 | 0.28 | | 27 | |
| 132 Toluene | 27 | | | | 890 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 133 Trichloro-1,2,2-trifluoroethane [1,1,2-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 134 Trichlorobenzene [1,2,4-] | 27 | | | | 160 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 135 Trichloroethane [1,1,1-] | 27 | | | | 1,000 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 136 Trichloroethane [1,1,2-] | 27 | | | | 6.3 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 137 Trichloroethene | 27 | | | | 3.2 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 138 Trichlorofluoromethane | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 139 Trichlorophenol [2,4,5-] | 27 | | | | 8,000 | mg/kg | 27 | 1.6 | 24 | | 27 | |
| 140 Trichlorophenol [2,4,6-] | 27 | | | | 64 | mg/kg | 27 | 0.33 | 4.7 | | 27 | |
| 141 Trichloropropane [1,2,3-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 142 Trimethylbenzene [1,2,4-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 143 Trimethylbenzene [1,3,5-] | 27 | | | | | mg/kg | 27 | 0.005 | 0.005 | | | |
| 144 Vanadium | 27 | 18 | 3.1 | 27 | 560 | mg/kg | 9 | 1.2 | 9.9 | | 27 | |
| 145 Vinyl chloride | 27 | | | | 0.012 | mg/kg | 27 | 0.01 | 0.01 | | 27 | |
| 146 Xylenes (o + m + p) [Mixed-] | 27 | | | | 160,000 | mg/kg | 27 | 0.005 | 0.005 | | 27 | |
| 147 Zinc | 27 | 27 | 16.2 | 3,020 | 24,000 | mg/kg | | | | | 27 | |
| **Total Number of Values** | **4,049** | **466** | | | | | **3,583** | | | **46** | **2,572** | **162** |

## TABLE 2-8

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF SHALLOW BOREHOLES, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 72 | | | | 4,800 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 2 | Acenaphthylene | 72 | | | | | mg/kg | 72 | 0.18 | 0.66 | | | |
| 3 | Acetone | 73 | 8 | 0.021 | 0.029 | 8,000 | mg/kg | 65 | 0.02 | 0.02 | | 73 | |
| 4 | Actinium-227 | 23 | | | | | pCi/g | 23 | 2.22 | 4.58 | | | |
| 5 | Aluminum | 79 | 79 | 188 | 29,700 | | mg/kg | | | | | | |
| 6 | Americium-241 | 23 | 6 | 0.016 | 1.126 | 22 | pCi/g | 17 | 0.01 | 0.01 | | 23 | |
| 7 | Aniline | 54 | | | | | mg/kg | 54 | 0.19 | 0.66 | | | |
| 8 | Anthracene | 72 | | | | 24,000 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 9 | Antimony | 78 | 4 | 0 | 0 | 32 | mg/kg | 74 | 0.2 | 0.57 | | 78 | |
| 10 | Arsenic | 80 | 33 | 0.83 | 9.7 | 0.4 | mg/kg | 47 | 0.81 | 4 | 33 | | 47 |
| 11 | Azobenzene | 54 | | | | | mg/kg | 54 | 0.19 | 0.66 | | | |
| 12 | Barium | 80 | 39 | 1.4 | 280 | 5,600 | mg/kg | 41 | 1.1 | 46.1 | | 80 | |
| 13 | Benzene | 73 | | | | 0.67 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 14 | Benzidine [m-] | 54 | | | | | mg/kg | 54 | 0.96 | 3.3 | | | |
| 15 | Benzo[a]anthracene | 72 | 1 | 1.1 | 1.1 | 0.64 | mg/kg | 71 | 0.18 | 0.66 | 1 | 24 | 47 |
| 16 | Benzo[a]pyrene | 72 | 1 | 0.87 | 0.87 | 0.1 | mg/kg | 71 | 0.18 | 0.66 | 1 | | 71 |
| 17 | Benzo[b]fluoranthene | 72 | 1 | 1.6 | 1.6 | 0.7 | mg/kg | 71 | 0.18 | 0.66 | 1 | 71 | |
| 18 | Benzo[g,h,i]perylene | 72 | | | | 44 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 19 | Benzo[k]fluoranthene | 72 | | | | 1.5 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 20 | Benzoic acid | 72 | | | | 320,000 | mg/kg | 72 | 0.89 | 3.3 | | 72 | |
| 21 | Benzyl alcohol | 72 | | | | | mg/kg | 72 | 0.18 | 1.3 | | | |
| 22 | Beryllium | 80 | 15 | 0.22 | 3.3 | 0.16 | mg/kg | 65 | 0.2 | 1.2 | 15 | | 65 |
| 23 | Bis(2-chloroethoxy)methane | 72 | | | | | mg/kg | 72 | 0.18 | 0.66 | | | |
| 24 | Bis(2-chloroethyl)ether | 72 | | | | 0.12 | mg/kg | 72 | 0.18 | 0.66 | | | 72 |
| 25 | Bis(2-chloroisopropyl)ether | 72 | | | | 100 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 26 | Bis(2-ethylhexyl)phthalate | 72 | 3 | 1.653 | 5.5 | 50 | mg/kg | 69 | 0.18 | 0.66 | | 72 | |
| 27 | Bromobenzene | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 28 | Bromochloromethane | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 29 | Bromodichloromethane | 73 | | | | 11 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 30 | Bromoform | 73 | | | | 89 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 31 | Bromomethane | 73 | | | | 0.43 | mg/kg | 73 | 0.01 | 0.01 | | 73 | |
| 32 | Bromophenylphenyl ether [4-] | 72 | | | | | mg/kg | 72 | 0.18 | 0.66 | | | |
| 33 | Butanone [2-] | 73 | | | | 4,000 | mg/kg | 73 | 0.02 | 0.02 | | 73 | |
| 34 | Butyl benzyl phthalate | 72 | | | | 16,000 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 35 | Butylbenzene [n-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 36 | Butylbenzene [sec-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 37 | Butylbenzene [tert-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 38 | Cadmium | 80 | 12 | 0.75 | 2.2 | 80 | mg/kg | 68 | 0.6 | 1.2 | | 80 | |

# TABLE 2-8

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF SHALLOW BOREHOLES, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | Calcium | 80 | 46 | 112 | 123,000 | | mg/kg | 34 | 93.5 | 1,050 | | | |
| 40 | Carbon disulfide | 73 | 2 | 0.0057 | 0.011 | 7.4 | mg/kg | 71 | 0.005 | 0.005 | | 73 | |
| 41 | Carbon tetrachloride | 73 | | | | 0.21 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 42 | Cesium-137 | 23 | 1 | 0.79 | 0.79 | 4 | pCi/g | 22 | 0.24 | 0.76 | | 23 | |
| 43 | Chloro-3-methylphenol [4-] | 72 | | | | 16,000 | mg/kg | 72 | 0.18 | 1.3 | | 72 | |
| 44 | Chloroaniline [4-] | 72 | | | | 320 | mg/kg | 72 | 0.18 | 1.3 | | 72 | |
| 45 | Chlorobenzene | 73 | | | | 67 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 46 | Chlorodibromomethane | 73 | | | | 83 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 47 | Chloroethane | 73 | | | | 3,300 | mg/kg | 73 | 0.01 | 0.01 | | 73 | |
| 48 | Chloroform | 73 | | | | 0.21 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 49 | Chloromethane | 73 | | | | 6.4 | mg/kg | 73 | 0.01 | 0.01 | | 73 | |
| 50 | Chloronaphthalene [2-] | 72 | | | | 6,400 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 51 | Chlorophenol [o-] | 72 | | | | 400 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 52 | Chlorophenylphenyl ether [4-] | 72 | | | | | mg/kg | 72 | 0.18 | 0.66 | | | |
| 53 | Chlorotoluene [o-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 54 | Chlorotoluene [p-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 55 | Chromium | 79 | 55 | 0.87 | 42.5 | 400 | mg/kg | 24 | 0.81 | 2 | | 79 | |
| 56 | Chrysene | 72 | 1 | 1.1 | 1.1 | 22 | mg/kg | 71 | 0.18 | 0.66 | | 72 | |
| 57 | Cobalt | 80 | | | | | mg/kg | 80 | 1.8 | 5.7 | | | |
| 58 | Copper | 79 | 32 | 0.65 | 73 | 3,000 | mg/kg | 47 | 0.6 | 6.3 | | 79 | |
| 59 | Di-n-butyl phthalate | 72 | | | | 8,000 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 60 | Di-n-octyl phthalate | 72 | | | | 1,600 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 61 | Dibenzo[a,h]anthracene | 72 | | | | 0.086 | mg/kg | 72 | 0.18 | 0.66 | | | 72 |
| 62 | Dibenzofuran | 72 | | | | | mg/kg | 72 | 0.18 | 0.66 | | | |
| 63 | Dibromo-3-chloropropane [1,2-] | 73 | | | | | mg/kg | 73 | 0.01 | 0.01 | | | |
| 64 | Dibromoethane [1,2-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 65 | Dibromomethane | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 66 | Dichlorobenzene (1,2) [o-] | 145 | | | | 1,600 | mg/kg | 145 | 0.005 | 0.66 | | 145 | |
| 67 | Dichlorobenzene (1,3) [m-] | 145 | | | | 7,200 | mg/kg | 145 | 0.005 | 0.66 | | 145 | |
| 68 | Dichlorobenzene (1,4) [p-] | 145 | | | | 290 | mg/kg | 145 | 0.005 | 0.66 | | 145 | |
| 69 | Dichlorobenzidine [3,3'-] | 72 | | | | 1.6 | mg/kg | 72 | 0.36 | 1.3 | | 72 | |
| 70 | Dichlorodifluoromethane | 73 | | | | | mg/kg | 73 | 0.01 | 0.01 | | | |
| 71 | Dichloroethane [1,1-] | 73 | | | | 410 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 72 | Dichloroethane [1,2-] | 73 | | | | 0.2 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 73 | Dichloroethene [1,1-] | 73 | | | | 0.4 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 74 | Dichloroethene [trans-1,2-] | 73 | | | | 1,600 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 75 | Dichloroethylene [cis-1,2-] | 73 | | | | 800 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 76 | Dichlorophenol [2,4-] | 72 | | | | 240 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |

## TABLE 2-8

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF SHALLOW BOREHOLES, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Dichloropropane [1,2-] | 73 | | | | 6.5 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 78 | Dichloropropane [1,3-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 79 | Dichloropropane [2,2-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 80 | Dichloropropene [1,1-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 81 | Dichloropropene [cis-1,3-] | 73 | | | | 0.17 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 82 | Dichloropropene [trans-1,3-] | 73 | | | | 0.17 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 83 | Diethyl phthalate | 72 | | | | 64,000 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 84 | Dimethyl phthalate | 72 | | | | 800,000 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 85 | Dimethylphenol [2,4-] | 72 | | | | 1,600 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 86 | Dinitrophenol [2,4-] | 72 | | | | 160 | mg/kg | 72 | 0.89 | 3.3 | | 72 | |
| 87 | Dinitrotoluene [2,4-] | 72 | | | | 1 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 88 | Dinitrotoluene [2,6-] | 72 | | | | 1 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 89 | Ethylbenzene | 73 | | | | 3,100 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 90 | Fluoranthene | 72 | 1 | 2.9 | 2.9 | 3,200 | mg/kg | 71 | 0.18 | 0.66 | | 72 | |
| 91 | Fluorene | 72 | | | | 3,200 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 92 | Hexachlorobenzene | 72 | | | | 0.44 | mg/kg | 72 | 0.18 | 0.66 | | 24 | 48 |
| 93 | Hexachlorobutadiene | 72 | | | | 90 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 94 | Hexachlorocyclopentadiene | 72 | | | | 560 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 95 | Hexachloroethane | 72 | | | | 80 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 96 | Hexanone [2-] | 73 | | | | | mg/kg | 73 | 0.02 | 0.02 | | | |
| 97 | Indeno[1,2,3-cd]pyrene | 72 | 1 | 0.46 | 0.46 | 0.41 | mg/kg | 71 | 0.18 | 0.66 | 1 | 22 | 49 |
| 98 | Iron | 79 | 79 | 864 | 21,700 | | mg/kg | | | | | | |
| 99 | Isophorone | 72 | | | | 7,400 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 100 | Isopropylbenzene | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 101 | Isopropyltoluene [4-] | 73 | 1 | 0.012 | 0.012 | | mg/kg | 72 | 0.005 | 0.005 | | | |
| 102 | Lead | 78 | 78 | 0.67 | 84 | 500 | mg/kg | | | | | 78 | |
| 103 | Lithium | 78 | 26 | 1.3 | 22.5 | | mg/kg | 52 | 1.2 | 8.8 | | | |
| 104 | Magnesium | 77 | 37 | 71.4 | 8,840 | | mg/kg | 40 | 59.9 | 918 | | | |
| 105 | Manganese | 78 | 78 | 27.7 | 373 | 8,000 | mg/kg | | | | | 78 | |
| 106 | Methyl iodide | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 107 | Methyl-2-pentanone [4-] | 73 | | | | 510 | mg/kg | 73 | 0.02 | 0.02 | | 73 | |
| 108 | Methyl-4,6-dinitrophenol [2-] | 72 | | | | | mg/kg | 72 | 0.89 | 3.3 | | | |
| 109 | Methylene chloride | 73 | | | | 5.6 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 110 | Methylnaphthalene [2-] | 72 | | | | | mg/kg | 72 | 0.18 | 0.96 | | | |
| 111 | Methylphenol [2-] | 72 | | | | 4,000 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 112 | Methylphenol [4-] | 72 | | | | 400 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 113 | Molybdenum | 78 | | | | 400 | mg/kg | 78 | 5.8 | 8.4 | | 78 | |
| 114 | Naphthalene | 72 | | | | 3,200 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |

## TABLE 2-8

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF SHALLOW BOREHOLES, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115 | Nickel | 78 | 10 | 2.8 | 20.2 | 1,600 | mg/kg | 68 | 2.2 | 9.6 | | 78 | |
| 116 | Nitroaniline [2-] | 72 | | | | | mg/kg | 72 | 0.89 | 3.3 | | | |
| 117 | Nitroaniline [3-] | 72 | | | | | mg/kg | 72 | 0.89 | 3.3 | | | |
| 118 | Nitroaniline [4-] | 72 | | | | | mg/kg | 72 | 0.89 | 3.3 | | | |
| 119 | Nitrobenzene | 72 | | | | 5.3 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 120 | Nitrophenol [2-] | 72 | | | | | mg/kg | 72 | 0.18 | 0.66 | | | |
| 121 | Nitrophenol [4-] | 72 | | | | | mg/kg | 72 | 0.89 | 3.3 | | | |
| 122 | Nitrosodi-n-propylamine [N-] | 72 | | | | 0.1 | mg/kg | 72 | 0.18 | 0.66 | | | 72 |
| 123 | Nitrosodimethylamine [N-] | 54 | | | | | mg/kg | 54 | 0.19 | 0.66 | | | |
| 124 | Nitrosodiphenylamine [N-] | 72 | | | | 140 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 125 | Pentachlorophenol | 72 | | | | 5.8 | mg/kg | 72 | 0.89 | 3.3 | | 72 | |
| 126 | Phenanthrene | 72 | 1 | 1.7 | 1.7 | | mg/kg | 71 | 0.18 | 0.66 | | | |
| 127 | Phenol | 72 | | | | 48,000 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 128 | Plutonium-238 | 23 | 4 | 0.067 | 0.269 | 27 | pCi/g | 19 | 0.01 | 0.01 | | 23 | |
| 129 | Plutonium-239 | 23 | 8 | 0.023 | 33.901 | 24 | pCi/g | 15 | 0.01 | 0.01 | 1 | 22 | |
| 130 | Potassium | 78 | 15 | 259 | 2,730 | | mg/kg | 63 | 215 | 1,210 | | | |
| 131 | Propylbenzene | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 132 | Pyrene | 72 | 1 | 2 | 2 | 2,400 | mg/kg | 71 | 0.18 | 0.66 | | 72 | |
| 133 | Selenium | 77 | 7 | 0.41 | 0.71 | 400 | mg/kg | 70 | 0.4 | 0.71 | | 77 | |
| 134 | Silver | 80 | 2 | 5 | 5.2 | 400 | mg/kg | 78 | 1 | 2.1 | | 80 | |
| 135 | Strontium | 77 | 33 | 0.49 | 415 | | mg/kg | 44 | 0.4 | 23.2 | | | |
| 136 | Strontium-90 | 23 | | | | 8.9 | pCi/g | 23 | 1.0 | 1.0 | | 23 | |
| 137 | Styrene | 73 | | | | 16,000 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 138 | Tetrachloroethane [1,1,1,2-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 139 | Tetrachloroethane [1,1,2,2-] | 73 | | | | 3.9 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 140 | Tetrachloroethylene | 73 | | | | 5.9 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 141 | Thallium | 78 | | | | 6.4 | mg/kg | 78 | 0.2 | 0.31 | | 78 | |
| 142 | Thorium-228 | 19 | 19 | 1.41 | 1.78 | | pCi/g | | | | | | |
| 143 | Thorium-230 | 19 | 19 | 1.22 | 1.43 | 10 | pCi/g | | | | | 19 | |
| 144 | Thorium-232 | 19 | 19 | 1.43 | 1.78 | 0.88 | pCi/g | | | | 19 | | |
| 145 | Toluene | 73 | | | | 890 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 146 | Trichloro-1,2,2-trifluoroethane [1,1,2- | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 147 | Trichlorobenzene [1,2,4-] | 72 | | | | 160 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 148 | Trichloroethane [1,1,1-] | 73 | | | | 1,000 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 149 | Trichloroethane [1,1,2-] | 73 | | | | 6.3 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 150 | Trichloroethene | 73 | | | | 3.2 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 151 | Trichlorofluoromethane | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 152 | Trichlorophenol [2,4,5-] | 72 | | | | 8,000 | mg/kg | 72 | 0.66 | 2.1 | | 72 | |

## TABLE 2-8

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF SHALLOW BOREHOLES, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 153 | Trichlorophenol [2,4,6-] | 72 | | | | 64 | mg/kg | 72 | 0.18 | 0.66 | | 72 | |
| 154 | Trichloropropane [1,2,3-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 155 | Trimethylbenzene [1,2,4-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 156 | Trimethylbenzene [1,3,5-] | 73 | | | | | mg/kg | 73 | 0.005 | 0.005 | | | |
| 157 | Tritium | 23 | | | | 15,000,000 | pCi/g | 23 | 2.0 | 2.0 | | 23 | |
| 158 | Uranium-234 | 19 | 19 | 1.19 | 21.37 | 86 | pCi/g | | | | | 19 | |
| 159 | Uranium-235 | 19 | 19 | 0.03 | 0.87 | 18 | pCi/g | | | | | 19 | |
| 160 | Uranium-238 | 19 | 19 | 1.15 | 2.22 | 59 | pCi/g | | | | | 19 | |
| 161 | Vanadium | 77 | 28 | 1.1 | 58 | 560 | mg/kg | 49 | 1 | 10.1 | | 77 | |
| 162 | Vinyl chloride | 73 | | | | 0.012 | mg/kg | 73 | 0.01 | 0.01 | | 73 | |
| 163 | Xylenes (o + m + p) [Mixed-] | 73 | | | | 160,000 | mg/kg | 73 | 0.005 | 0.005 | | 73 | |
| 164 | Zinc | 77 | 77 | 6.5 | 160 | 24,000 | mg/kg | | | | | 77 | |
| | **Total Number of Values** | **11,509** | **940** | | | | | **10,569** | | | **72** | **7,175** | **543** |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | Soil | 4 | | | | 4,800 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 2 | Acenaphthene | Water | 2 | | | | 2,100 | µg/l | 2 | 10 | 10 | | 2 | |
| 3 | Acenaphthylene | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 4 | Acenaphthylene | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 5 | Acetone | Soil | 5 | 1 | 0.026 | 0.026 | 8,000 | mg/kg | 4 | 0.02 | 0.024 | | 5 | |
| 6 | Acetone | Water | 2 | | | | 3,500 | µg/l | 2 | 20 | 53 | | 2 | |
| 7 | Actinium-227 | Soil | 3 | | | | | pCi/g | 3 | 0.7788 | 1.176 | | | |
| 8 | Aluminum | Soil | 5 | 5 | 2,100 | 3,330 | | mg/kg | | | | | | |
| 9 | Aluminum | Water | 2 | 2 | 30 | 30 | | mg/l | | | | | | |
| 10 | Americium-241 | Soil | 2 | 1 | 0.291 | 0.291 | 22 | pCi/g | 1 | 0.01 | 0.01 | | 2 | |
| 11 | Aniline | Soil | 3 | | | | | mg/kg | 3 | 0.36 | 0.4 | | | |
| 12 | Aniline | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 13 | Anthracene | Soil | 4 | | | | 24,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 14 | Anthracene | Water | 2 | | | | 10,000 | µg/l | 2 | 10 | 10 | | 2 | |
| 15 | Antimony | Soil | 5 | 2 | 0.3 | 0.3 | 32 | mg/kg | 3 | 0.12 | 0.24 | | 5 | |
| 16 | Antimony | Water | 2 | | | | 6 | µg/l | 2 | 2 | 2 | | 2 | |
| 17 | Arsenic | Soil | 5 | 4 | 0.4 | 0.5 | 0.4 | mg/kg | 1 | 0.95 | 0.95 | 4 | | 1 |
| 18 | Arsenic | Water | 2 | | | | 50 | µg/l | 2 | 2 | 2 | | 2 | |
| 19 | Azobenzene | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 20 | Azobenzene | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 21 | Barium | Water | 2 | 2 | 0.57 | 0.57 | 2,000 | mg/l | | | | | 2 | |
| 22 | Barium | Soil | 5 | 4 | 27 | 38 | 5,600 | mg/kg | 1 | 28.4 | 28.4 | | 5 | |
| 23 | Benzene | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 24 | Benzene | Soil | 5 | | | | 0.67 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 25 | Benzidine [m-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 26 | Benzo[a]anthracene | Soil | 4 | | | | 0.64 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 27 | Benzo[a]anthracene | Water | 2 | | | | 0.1 | µg/l | 2 | 10 | 10 | | | 2 |
| 28 | Benzo[a]pyrene | Soil | 4 | | | | 0.1 | mg/kg | 4 | 0.36 | 0.4 | | | 4 |
| 29 | Benzo[a]pyrene | Water | 2 | | | | 0.2 | µg/l | 2 | 10 | 10 | | | 2 |
| 30 | Benzo[b]fluoranthene | Water | 2 | | | | 0.2 | µg/l | 2 | 10 | 10 | | | 2 |
| 31 | Benzo[b]fluoranthene | Soil | 4 | | | | 0.7 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 32 | Benzo[g,h,i]perylene | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 33 | Benzo[g,h,i]perylene | Soil | 4 | | | | 44 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 34 | Benzo[k]fluoranthene | Soil | 4 | | | | 1.5 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 35 | Benzo[k]fluoranthene | Water | 2 | | | | 0.2 | µg/l | 2 | 10 | 10 | | | 2 |
| 36 | Benzoic acid | Soil | 4 | | | | 320,000 | mg/kg | 4 | 1.7 | 1.9 | | 4 | |
| 37 | Benzoic acid | Water | 2 | | | | 140,000 | µg/l | 2 | 10 | 10 | | 2 | |
| 38 | Benzyl alcohol | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 39 | Benzyl alcohol | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 40 | Beryllium | Soil | 5 | 4 | 0.43 | 0.8 | 0.16 | mg/kg | 1 | 0.24 | 0.24 | 4 | | 1 |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | Beryllium | Water | 2 | 2 | 0.007 | 0.007 | 4 | mg/l | | | | | 2 | |
| 42 | Bis(2-chloroethoxy)methane | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 43 | Bis(2-chloroethoxy)methane | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 44 | Bis(2-chloroethyl)ether | Soil | 4 | | | | 0.12 | mg/kg | 4 | 0.71 | 0.79 | | | 4 |
| 45 | Bis(2-chloroethyl)ether | Water | 2 | | | | 0.032 | µg/l | 2 | 10 | 10 | | | 2 |
| 46 | Bis(2-chloroisopropyl)ether | Water | 2 | | | | 0.5 | µg/l | 2 | 10 | 10 | | | 2 |
| 47 | Bis(2-chloroisopropyl)ether | Soil | 4 | | | | 100 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 48 | Bis(2-ethylhexyl)phthalate | Soil | 4 | | | | 50 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 49 | Bis(2-ethylhexyl)phthalate | Water | 2 | | | | 4 | µg/l | 2 | 10 | 10 | | | 2 |
| 50 | Bromobenzene | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 51 | Bromobenzene | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 52 | Bromochloromethane | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 53 | Bromochloromethane | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 54 | Bromodichloromethane | Soil | 5 | | | | 11 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 55 | Bromodichloromethane | Water | 2 | | | | 0.56 | µg/l | 2 | 5 | 5 | | | 2 |
| 56 | Bromoform | Soil | 5 | | | | 89 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 57 | Bromoform | Water | 2 | | | | 4.4 | µg/l | 2 | 5 | 5 | | | 2 |
| 58 | Bromomethane | Soil | 5 | | | | 0.43 | mg/kg | 5 | 0.01 | 0.012 | | 5 | |
| 59 | Bromomethane | Water | 2 | | | | 49 | µg/l | 2 | 10 | 10 | | 2 | |
| 60 | Bromophenylphenyl ether [4-] | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 61 | Bromophenylphenyl ether [4-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 62 | Butanone [2-] | Soil | 5 | 1 | 0.11 | 0.11 | 4,000 | mg/kg | 4 | 0.022 | 0.024 | | 5 | |
| 63 | Butanone [2-] | Water | 2 | | | | 1,700 | µg/l | 2 | 20 | 20 | | 2 | |
| 64 | Butyl benzyl phthalate | Soil | 4 | | | | 16,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 65 | Butyl benzyl phthalate | Water | 2 | | | | 100 | µg/l | 2 | 10 | 10 | | 2 | |
| 66 | Butylbenzene [n-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 67 | Butylbenzene [n-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 68 | Butylbenzene [sec-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 69 | Butylbenzene [sec-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 70 | Butylbenzene [tert-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 71 | Butylbenzene [tert-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 72 | Cadmium | Soil | 5 | | | | 80 | mg/kg | 5 | 0.4 | 1 | | 5 | |
| 73 | Cadmium | Water | 2 | | | | 5 | mg/l | 2 | 0.003 | 0.003 | | 2 | |
| 74 | Calcium | Soil | 5 | 5 | 850 | 1,700 | | mg/kg | | | | | | |
| 75 | Calcium | Water | 2 | 2 | 24 | 24 | | mg/l | | | | | | |
| 76 | Carbon disulfide | Water | 2 | | | | 3,500 | µg/l | 2 | 5 | 5 | | 2 | |
| 77 | Carbon disulfide | Soil | 5 | | | | 7.4 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 78 | Carbon tetrachloride | Soil | 5 | | | | 0.21 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 79 | Carbon tetrachloride | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 80 | Cesium-137 | Soil | 5 | | | | 4 | pCi/g | 5 | 0.144 | 0.3214 | | 5 | |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | Chloro-3-methylphenol [4-] | Water | 2 | | | | 7,000 | µg/l | 2 | 10 | 10 | | 2 | |
| 82 | Chloro-3-methylphenol [4-] | Soil | 4 | | | | 16,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 83 | Chloroaniline [4-] | Soil | 4 | | | | 320 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 84 | Chloroaniline [4-] | Water | 2 | | | | 140 | µg/l | 2 | 10 | 10 | | 2 | |
| 85 | Chlorobenzene | Soil | 5 | | | | 67 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 86 | Chlorobenzene | Water | 2 | | | | 100 | µg/l | 2 | 5 | 5 | | 2 | |
| 87 | Chlorodibromomethane | Water | 2 | | | | 4.2 | µg/l | 2 | 5 | 5 | | | 2 |
| 88 | Chlorodibromomethane | Soil | 5 | | | | 63 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 89 | Chloroethane | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 90 | Chloroethane | Soil | 5 | | | | 3,300 | mg/kg | 5 | 0.01 | 0.012 | | 5 | |
| 91 | Chloroform | Water | 2 | | | | 100 | µg/l | 2 | 5 | 5 | | 2 | |
| 92 | Chloroform | Soil | 5 | | | | 0.21 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 93 | Chloromethane | Water | 2 | | | | 27 | µg/l | 2 | 10 | 10 | | 2 | |
| 94 | Chloromethane | Soil | 5 | | | | 6.4 | mg/kg | 5 | 0.01 | 0.012 | | 5 | |
| 95 | Chloronaphthalene [2-] | Soil | 4 | | | | 6,400 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 96 | Chloronaphthalene [2-] | Water | 2 | | | | 2,800 | µg/l | 2 | 10 | 10 | | 2 | |
| 97 | Chlorophenol [o-] | Soil | 4 | | | | 400 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 98 | Chlorophenol [o-] | Water | 2 | | | | 170 | µg/l | 2 | 10 | 10 | | 2 | |
| 99 | Chlorophenylphenyl ether [4-] | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 100 | Chlorophenylphenyl ether [4-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 101 | Chlorotoluene [o-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 102 | Chlorotoluene [o-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 103 | Chlorotoluene [p-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 104 | Chlorotoluene [p-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 105 | Chromium | Water | 2 | 2 | 0.021 | 0.021 | 100 | mg/l | | | | | 2 | |
| 106 | Chromium | Soil | 5 | 5 | 1.8 | 4.2 | 400 | mg/kg | | | | | 5 | |
| 107 | Chrysene | Water | 2 | | | | 0.2 | µg/l | 2 | 10 | 10 | | | 2 |
| 108 | Chrysene | Soil | 4 | | | | 22 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 109 | Cobalt | Soil | 5 | 4 | 1.8 | 3.8 | | mg/kg | 1 | 2.1 | 2.1 | | | |
| 110 | Cobalt | Water | 2 | | | | | mg/l | 2 | 0.004 | 0.004 | | | |
| 111 | Copper | Soil | 5 | 4 | 0.7 | 2.8 | 3,000 | mg/kg | 1 | 3.1 | 3.1 | | 5 | |
| 112 | Copper | Water | 2 | 2 | 0.016 | 0.016 | 1,300 | mg/l | | | | | 2 | |
| 113 | Di-n-butyl phthalate | Soil | 4 | | | | 8,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 114 | Di-n-butyl phthalate | Water | 2 | | | | 3,500 | µg/l | 2 | 10 | 10 | | 2 | |
| 115 | Di-n-octyl phthalate | Soil | 4 | | | | 1,600 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 116 | Di-n-octyl phthalate | Water | 2 | | | | 700 | µg/l | 2 | 10 | 10 | | 2 | |
| 117 | Dibenzo[a,h]anthracene | Soil | 4 | | | | 0.086 | mg/kg | 4 | 0.36 | 0.4 | | | 4 |
| 118 | Dibenzo[a,h]anthracene | Water | 2 | | | | 0.3 | µg/l | 2 | 10 | 10 | | | 2 |
| 119 | Dibenzofuran | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 120 | Dibenzofuran | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 121 | Dibromo-3-chloropropane [1,2-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 122 | Dibromo-3-chloropropane [1,2-] | Soil | 5 | | | | | mg/kg | 5 | 0.01 | 0.012 | | | |
| 123 | Dibromoethane [1,2-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 124 | Dibromoethane [1,2-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 125 | Dibromomethane | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 126 | Dibromomethane | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 127 | Dichlorobenzene (1,2) [o-] | Soil | 9 | | | | 1,600 | mg/kg | 9 | 0.005 | 0.4 | | 9 | |
| 128 | Dichlorobenzene (1,2) [o-] | Water | 4 | | | | 600 | µg/l | 4 | 5 | 10 | | 4 | |
| 129 | Dichlorobenzene (1,3) [m-] | Soil | 9 | | | | 7,200 | mg/kg | 9 | 0.005 | 0.4 | | 9 | |
| 130 | Dichlorobenzene (1,3) [m-] | Water | 4 | | | | 600 | µg/l | 4 | 5 | 10 | | 4 | |
| 131 | Dichlorobenzene (1,4) [p-] | Water | 4 | | | | 75 | µg/l | 4 | 5 | 10 | | 4 | |
| 132 | Dichlorobenzene (1,4) [p-] | Soil | 9 | | | | 280 | mg/kg | 9 | 0.005 | 0.4 | | 9 | |
| 133 | Dichlorobenzidine [3,3'-] | Soil | 4 | | | | 1.6 | mg/kg | 4 | 0.36 | 0.79 | | 4 | |
| 134 | Dichlorobenzidine [3,3'-] | Water | 2 | | | | 0.078 | µg/l | 2 | 10 | 10 | | | 2 |
| 135 | Dichlorodifluoromethane | Soil | 5 | | | | | mg/kg | 5 | 0.01 | 0.012 | | | |
| 136 | Dichlorodifluoromethane | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 137 | Dichloroethane [1,1-] | Soil | 5 | | | | 410 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 138 | Dichloroethane [1,1-] | Water | 2 | | | | 3,500 | µg/l | 2 | 5 | 5 | | 2 | |
| 139 | Dichloroethane [1,2-] | Soil | 5 | | | | 0.2 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 140 | Dichloroethane [1,2-] | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 141 | Dichloroethene [1,1-] | Soil | 5 | | | | 0.4 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 142 | Dichloroethene [1,1-] | Water | 2 | | | | 7 | µg/l | 2 | 5 | 5 | | 2 | |
| 143 | Dichloroethene [trans-1,2-] | Soil | 5 | | | | 1,600 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 144 | Dichloroethene [trans-1,2-] | Water | 2 | | | | 100 | µg/l | 2 | 5 | 5 | | 2 | |
| 145 | Dichloroethylene [cis-1,2-] | Soil | 5 | | | | 800 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 146 | Dichloroethylene [cis-1,2-] | Water | 2 | | | | 70 | µg/l | 2 | 5 | 5 | | 2 | |
| 147 | Dichlorophenol [2,4-] | Soil | 4 | | | | 240 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 148 | Dichlorophenol [2,4-] | Water | 2 | | | | 100 | µg/l | 2 | 10 | 10 | | 2 | |
| 149 | Dichloropropane [1,2-] | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 150 | Dichloropropane [1,2-] | Soil | 5 | | | | 6.5 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 151 | Dichloropropane [1,3-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 152 | Dichloropropane [1,3-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 153 | Dichloropropane [2,2-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 154 | Dichloropropane [2,2-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 155 | Dichloropropene [1,1-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 156 | Dichloropropene [1,1-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 157 | Dichloropropene [cis-1,3-] | Water | 2 | | | | 0.19 | µg/l | 2 | 5 | 5 | | | 2 |
| 158 | Dichloropropene [cis-1,3-] | Soil | 5 | | | | 0.17 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 159 | Dichloropropene [trans-1,3-] | Soil | 5 | | | | 0.17 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 160 | Dichloropropene [trans-1,3-] | Water | 2 | | | | 0.19 | µg/l | 2 | 5 | 5 | | | 2 |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 161 | Diethyl phthalate | Soil | 4 | | | | 64,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 162 | Diethyl phthalate | Water | 2 | | | | 5,000 | µg/l | 2 | 10 | 10 | | 2 | |
| 163 | Dimethyl phthalate | Water | 2 | | | | 350,000 | µg/l | 2 | 10 | 10 | | 2 | |
| 164 | Dimethyl phthalate | Soil | 4 | | | | 800,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 165 | Dimethylphenol [2,4-] | Water | 2 | | | | 700 | µg/l | 2 | 10 | 10 | | 2 | |
| 166 | Dimethylphenol [2,4-] | Soil | 4 | | | | 1,600 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 167 | Dinitrophenol [2,4-] | Soil | 4 | | | | 160 | mg/kg | 4 | 0.86 | 0.96 | | 4 | |
| 168 | Dinitrophenol [2,4-] | Water | 2 | | | | 70 | µg/l | 2 | 10 | 10 | | 2 | |
| 169 | Dinitrotoluene [2,4-] | Soil | 4 | | | | 1 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 170 | Dinitrotoluene [2,4-] | Water | 2 | | | | 0.05 | µg/l | 2 | 10 | 10 | | | 2 |
| 171 | Dinitrotoluene [2,6-] | Soil | 4 | | | | 1 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 172 | Dinitrotoluene [2,6-] | Water | 2 | | | | 0.05 | µg/l | 2 | 10 | 10 | | | 2 |
| 173 | Ethylbenzene | Water | 2 | | | | 700 | µg/l | 2 | 5 | 5 | | 2 | |
| 174 | Ethylbenzene | Soil | 5 | | | | 3,100 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 175 | Fluoranthene | Soil | 4 | | | | 3,200 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 176 | Fluoranthene | Water | 2 | | | | 1,400 | µg/l | 2 | 10 | 10 | | 2 | |
| 177 | Fluorene | Soil | 4 | | | | 3,200 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 178 | Fluorene | Water | 2 | | | | 1,400 | µg/l | 2 | 10 | 10 | | 2 | |
| 179 | Hexachlorobenzene | Soil | 4 | | | | 0.44 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 180 | Hexachlorobenzene | Water | 2 | | | | 1 | µg/l | 2 | 10 | 10 | | | 2 |
| 181 | Hexachlorobutadiene | Soil | 4 | | | | 90 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 182 | Hexachlorobutadiene | Water | 2 | | | | 4.5 | µg/l | 2 | 10 | 10 | | | 2 |
| 183 | Hexachlorocyclopentadiene | Soil | 4 | | | | 560 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 184 | Hexachlorocyclopentadiene | Water | 2 | | | | 50 | µg/l | 2 | 10 | 10 | | 2 | |
| 185 | Hexachloroethane | Soil | 4 | | | | 80 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 186 | Hexachloroethane | Water | 2 | | | | 25 | µg/l | 2 | 10 | 10 | | 2 | |
| 187 | Hexanone [2-] | Soil | 5 | | | | | mg/kg | 5 | 0.02 | 0.024 | | | |
| 188 | Hexanone [2-] | Water | 2 | | | | | µg/l | 2 | 20 | 20 | | | |
| 189 | Indeno[1,2,3-cd]pyrene | Soil | 4 | | | | 0.41 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 190 | Indeno[1,2,3-cd]pyrene | Water | 2 | | | | 0.4 | µg/l | 2 | 10 | 10 | | | 2 |
| 191 | Iron | Soil | 5 | 5 | 3,200 | 7,000 | | mg/kg | | | | | | |
| 192 | Iron | Water | 2 | 2 | 7.8 | 7.8 | | mg/l | | | | | | |
| 193 | Isophorone | Soil | 4 | | | | 7,400 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 194 | Isophorone | Water | 2 | | | | 370 | µg/l | 2 | 10 | 10 | | 2 | |
| 195 | Isopropylbenzene | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 196 | Isopropylbenzene | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 197 | Isopropyltoluene [4-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 198 | Isopropyltoluene [4-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 199 | Lead | Soil | 5 | 2 | 5 | 5.7 | 500 | mg/kg | 3 | 4 | 4 | | 5 | |
| 200 | Lead | Water | 2 | 2 | 23 | 23 | 50 | µg/l | | | | | 2 | |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 | Lead-210 | Soil | 1 | 1 | 2.03 | 2.03 | | pCi/g | | | | | | |
| 202 | Lead-212 | Soil | 2 | 2 | 1.71 | 2.46 | | pCi/g | | | | | | |
| 203 | Lithium | Soil | 5 | 5 | 14.7 | 19 | | mg/kg | | | | | | |
| 204 | Lithium | Water | 2 | 2 | 0.025 | 0.025 | | mg/l | | | | | | |
| 205 | Magnesium | Water | 2 | 2 | 7.9 | 7.9 | | mg/l | | | | | | |
| 206 | Magnesium | Soil | 5 | 5 | 480 | 1,230 | | mg/kg | | | | | | |
| 207 | Manganese | Water | 2 | 2 | 1.7 | 1.7 | 3,500 | mg/l | | | | | 2 | |
| 208 | Manganese | Soil | 5 | 5 | 120 | 290 | 8,000 | mg/kg | | | | | 5 | |
| 209 | Mercury | Water | 2 | | | | 2 | µg/l | 2 | 0.2 | 0.2 | | 2 | |
| 210 | Mercury | Soil | 2 | | | | 24 | mg/kg | 2 | 0.1 | 0.1 | | 2 | |
| 211 | Methyl iodide | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 212 | Methyl iodide | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 213 | Methyl-2-pentanone [4-] | Water | 2 | | | | 1,700 | µg/l | 2 | 20 | 20 | | 2 | |
| 214 | Methyl-2-pentanone [4-] | Soil | 5 | | | | 510 | mg/kg | 5 | 0.02 | 0.024 | | 5 | |
| 215 | Methyl-4,6-dinitrophenol [2-] | Soil | 4 | | | | | mg/kg | 4 | 0.86 | 0.96 | | | |
| 216 | Methyl-4,6-dinitrophenol [2-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 217 | Methylene chloride | Soil | 5 | 1 | 0.008 | 0.008 | 5.6 | mg/kg | 4 | 0.005 | 0.014 | | 5 | |
| 218 | Methylene chloride | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 219 | Methylnaphthalene [2-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 220 | Methylnaphthalene [2-] | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 221 | Methylphenol [2-] | Water | 2 | | | | 1,700 | µg/l | 2 | 10 | 10 | | 2 | |
| 222 | Methylphenol [2-] | Soil | 4 | | | | 4,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 223 | Methylphenol [4-] | Soil | 4 | | | | 400 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 224 | Methylphenol [4-] | Water | 2 | | | | 175 | µg/l | 2 | 10 | 10 | | 2 | |
| 225 | Molybdenum | Soil | 5 | 2 | 2.4 | 2.4 | 400 | mg/kg | 3 | 1 | 6.9 | | 5 | |
| 226 | Molybdenum | Water | 2 | | | | 180 | mg/l | 2 | 0.008 | 0.008 | | 2 | |
| 227 | Naphthalene | Soil | 4 | | | | 3,200 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 228 | Naphthalene | Water | 2 | | | | 1,400 | µg/l | 2 | 10 | 10 | | 2 | |
| 229 | Nickel | Soil | 5 | | | | 1,600 | mg/kg | 5 | 2 | 3 | | 5 | |
| 230 | Nickel | Water | 2 | | | | 100 | µg/l | 2 | 0.01 | 0.01 | | 2 | |
| 231 | Nitroaniline [2-] | Soil | 4 | | | | | mg/kg | 4 | 0.86 | 0.96 | | | |
| 232 | Nitroaniline [2-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 233 | Nitroaniline [3-] | Soil | 4 | | | | | mg/kg | 4 | 0.86 | 0.96 | | | |
| 234 | Nitroaniline [3-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 235 | Nitroaniline [4-] | Soil | 4 | | | | | mg/kg | 4 | 0.77 | 0.96 | | | |
| 236 | Nitroaniline [4-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 237 | Nitrobenzene | Soil | 4 | | | | 5.3 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 238 | Nitrobenzene | Water | 2 | | | | 18 | µg/l | 2 | 10 | 10 | | 2 | |
| 239 | Nitrophenol [2-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 240 | Nitrophenol [2-] | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | Nitrophenol [4-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 242 | Nitrophenol [4-] | Soil | 4 | | | | | mg/kg | 4 | 0.86 | 0.96 | | | |
| 243 | Nitrosodi-n-propylamine [N-] | Water | 2 | | | | 0.005 | µg/l | 2 | 10 | 10 | | | 2 |
| 244 | Nitrosodi-n-propylamine [N-] | Soil | 4 | | | | 0.1 | mg/kg | 4 | 0.36 | 0.4 | | | 4 |
| 245 | Nitrosodimethylamine [N-] | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 246 | Nitrosodimethylamine [N-] | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 247 | Nitrosodiphenylamine [N-] | Soil | 4 | | | | 140 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 248 | Nitrosodiphenylamine [N-] | Water | 2 | 1 | 120 | 120 | 7.1 | µg/l | 1 | 10 | 10 | 1 | | 1 |
| 249 | Pentachlorophenol | Soil | 4 | | | | 5.8 | mg/kg | 4 | 0.86 | 0.96 | | 4 | |
| 250 | Pentachlorophenol | Water | 2 | | | | 1 | µg/l | 2 | 10 | 10 | | | 2 |
| 251 | Phenanthrene | Soil | 4 | | | | | mg/kg | 4 | 0.36 | 0.4 | | | |
| 252 | Phenanthrene | Water | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 253 | Phenol | Soil | 4 | | | | 48,000 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 254 | Phenol | Water | 2 | | | | 21,000 | µg/l | 2 | 10 | 10 | | 2 | |
| 255 | Plutonium-238 | Water | 1 | | | | 15 | pCi/l | 1 | 0.04 | 0.04 | | 1 | |
| 256 | Plutonium-238 | Soil | 5 | 2 | 0.0352 | 0.132 | 27 | pCi/g | 3 | 0.01 | 0.01 | | 5 | |
| 257 | Plutonium-239 | Water | 1 | | | | 15 | pCi/l | 1 | 0.04 | 0.04 | | 1 | |
| 258 | Plutonium-239 | Soil | 5 | 1 | 0.0317 | 0.0317 | 24 | pCi/g | 4 | 0.01 | 0.01 | | 5 | |
| 259 | Potassium | Water | 2 | 2 | 9.7 | 9.7 | | mg/l | | | | | | |
| 260 | Potassium | Soil | 5 | 4 | 760 | 840 | | mg/kg | 1 | 792 | 792 | | | |
| 261 | Potassium-40 | Soil | 2 | 2 | 29.6 | 40.9 | | pCi/g | | | | | | |
| 262 | Propylbenzene | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 263 | Propylbenzene | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 264 | Pyrene | Soil | 4 | | | | 2,400 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 265 | Pyrene | Water | 2 | | | | 1,000 | µg/l | 2 | 10 | 10 | | 2 | |
| 266 | Radium-226 | Soil | 2 | 2 | 1.28 | 1.94 | 0.73 | pCi/g | | | | 2 | | |
| 267 | Selenium | Soil | 5 | 4 | 0.3 | 0.4 | 400 | mg/kg | 1 | 0.48 | 0.48 | | 5 | |
| 268 | Selenium | Water | 2 | | | | 50 | µg/l | 2 | 2 | 2 | | 2 | |
| 269 | Silver | Soil | 5 | | | | 400 | mg/kg | 5 | 1 | 1.2 | | 5 | |
| 270 | Silver | Water | 2 | | | | 170 | mg/l | 2 | 0.01 | 0.01 | | 2 | |
| 271 | Sodium | Soil | 1 | | | | | mg/kg | 1 | 266 | 266 | | | |
| 272 | Sodium | Water | 2 | 2 | 38 | 38 | | mg/l | | | | | | |
| 273 | Strontium | Soil | 5 | 4 | 6.8 | 7.5 | | mg/kg | 1 | 16.2 | 16.2 | | | |
| 274 | Strontium | Water | 2 | 2 | 0.19 | 0.19 | | mg/l | | | | | | |
| 275 | Strontium-90 | Soil | 5 | | | | 8.9 | pCi/g | 5 | 1.0 | 1.0 | | 5 | |
| 276 | Strontium-90 | Water | 2 | | | | 8 | pCi/l | 2 | 3.0 | 3.0 | | 2 | |
| 277 | Styrene | Soil | 5 | | | | 16,000 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 278 | Styrene | Water | 2 | | | | 100 | µg/l | 2 | 5 | 5 | | 2 | |
| 279 | Tetrachloroethane [1,1,1,2-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 280 | Tetrachloroethane [1,1,1,2-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 281 | Tetrachloroethane [1,1,2,2-] | Soil | 5 | | | | 3.9 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 282 | Tetrachloroethane [1,1,2,2-] | Water | 2 | | | | 1.8 | µg/l | 2 | 5 | 5 | | | 2 |
| 283 | Tetrachloroethylene | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 284 | Tetrachloroethylene | Soil | 5 | | | | 5.9 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 285 | Thallium | Water | 2 | | | | 2 | µg/l | 2 | 2 | 2 | | | 2 |
| 286 | Thallium | Soil | 5 | 2 | 1 | 1 | 6.4 | mg/kg | 3 | 0.12 | 0.24 | | 5 | |
| 287 | Thallium-208 | Soil | 1 | 1 | 0.427 | 0.427 | | pCi/g | | | | | | |
| 288 | Thorium-228 | Soil | 5 | 5 | 1.55 | 4.28 | | pCi/g | | | | | | |
| 289 | Thorium-230 | Soil | 5 | 5 | 1.25 | 4.88 | 10 | pCi/g | | | | | 5 | |
| 290 | Thorium-232 | Soil | 5 | 5 | 1.5 | 2.53 | 0.88 | pCi/g | | | | 5 | | |
| 291 | Thorium-234 | Soil | 2 | 2 | 2.07 | 2.71 | | pCi/g | | | | | | |
| 292 | Toluene | Soil | 5 | | | | 890 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 293 | Toluene | Water | 2 | | | | 1,000 | µg/l | 2 | 5 | 5 | | 2 | |
| 294 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 295 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 296 | Trichlorobenzene [1,2,4-] | Soil | 4 | | | | 160 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 297 | Trichlorobenzene [1,2,4-] | Water | 2 | | | | 70 | µg/l | 2 | 10 | 10 | | 2 | |
| 298 | Trichloroethane [1,1,1-] | Soil | 5 | | | | 1,000 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 299 | Trichloroethane [1,1,1-] | Water | 2 | | | | 200 | µg/l | 2 | 5 | 5 | | 2 | |
| 300 | Trichloroethane [1,1,2-] | Soil | 5 | | | | 6.3 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 301 | Trichloroethane [1,1,2-] | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 302 | Trichloroethene | Water | 2 | | | | 5 | µg/l | 2 | 5 | 5 | | | 2 |
| 303 | Trichloroethene | Soil | 5 | | | | 3.2 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 304 | Trichlorofluoromethane | Water | 2 | | | | | µg/l | 2 | 5 | 10 | | | |
| 305 | Trichlorofluoromethane | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.012 | | | |
| 306 | Trichlorophenol [2,4,5-] | Soil | 4 | | | | 8,000 | mg/kg | 4 | 0.86 | 0.96 | | 4 | |
| 307 | Trichlorophenol [2,4,5-] | Water | 2 | | | | 3,500 | µg/l | 2 | 10 | 10 | | 2 | |
| 308 | Trichlorophenol [2,4,6-] | Soil | 4 | | | | 64 | mg/kg | 4 | 0.36 | 0.4 | | 4 | |
| 309 | Trichlorophenol [2,4,6-] | Water | 2 | | | | 3.2 | µg/l | 2 | 10 | 10 | | | 2 |
| 310 | Trichloropropane [1,2,3-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 311 | Trichloropropane [1,2,3-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 312 | Trimethylbenzene [1,2,4-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 313 | Trimethylbenzene [1,2,4-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 314 | Trimethylbenzene [1,3,5-] | Soil | 5 | | | | | mg/kg | 5 | 0.005 | 0.006 | | | |
| 315 | Trimethylbenzene [1,3,5-] | Water | 2 | | | | | µg/l | 2 | 5 | 5 | | | |
| 316 | Tritium | Soil | 5 | 5 | 40.19 | 1,620 | 15,000,000 | pCi/g | | | | | 5 | |
| 317 | Tritium | Water | 1 | 1 | 5,500 | 5,500 | 20,000 | pCi/l | | | | | 1 | |
| 318 | Uranium-234 | Soil | 5 | 5 | 2.1 | 3.54 | 86 | pCi/g | | | | | 5 | |
| 319 | Uranium-234 | Water | 1 | 1 | 0.19 | 0.19 | 19 | pCi/l | | | | | 1 | |
| 320 | Uranium-235 | Soil | 5 | 4 | 0.0588 | 0.171 | 18 | pCi/g | 1 | 0.02 | 0.02 | | 5 | |

# TABLE 2-9

## SUMMARY OF ANALYTICAL RESULTS FOR SAMPLES OF LADP-3, OU 1106

| | Analyte | Matrix | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 321 | Uranium-235 | Water | 1 | | | | 21 | pCi/l | 1 | 0.07 | 0.07 | | 1 | |
| 322 | Uranium-238 | Water | 1 | 1 | 0.205 | 0.205 | 6.7 | pCi/l | | | | | 1 | |
| 323 | Uranium-238 | Soil | 5 | 5 | 2.02 | 4.24 | 59 | pCi/g | | | | | 5 | |
| 324 | Vanadium | Water | 2 | | | | 240 | µg/l | 2 | 4 | 4 | | 2 | |
| 325 | Vanadium | Soil | 5 | 4 | 3.1 | 3.7 | 560 | mg/kg | 1 | 3 | 3 | | 5 | |
| 326 | Vinyl chloride | Water | 2 | | | | 2 | µg/l | 2 | 10 | 10 | | | 2 |
| 327 | Vinyl chloride | Soil | 5 | | | | 0.012 | mg/kg | 5 | 0.01 | 0.012 | | | 3 |
| 328 | Xylenes (o + m + p) [Mixed-] | Soil | 5 | | | | 160,000 | mg/kg | 5 | 0.005 | 0.006 | | 5 | |
| 329 | Xylenes (o + m + p) [Mixed-] | Water | 2 | | | | 10,000 | µg/l | 2 | 5 | 5 | | 2 | |
| 330 | Zinc | Soil | 5 | 5 | 14 | 19 | 24,000 | mg/kg | | | | | 5 | |
| 331 | Zinc | Water | 2 | 2 | 0.25 | 0.25 | 10,000 | mg/l | | | | | 2 | |
| | **Total Number of Values** | | **1,089** | **169** | | | | | **920** | | | **16** | **624** | **90** |

# TABLE 2-10

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF LADP-4, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 8 | | | | 4,800 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 2 | Acenaphthylene | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 3 | Acetone | 8 | 2 | 0.035 | 0.041 | 8,000 | mg/kg | 6 | 0.02 | 0.06 | | 8 | |
| 4 | Actinium-227 | 1 | | | | | pCi/g | 1 | 1.166 | 1.166 | | | |
| 5 | Aluminum | 8 | 8 | 628 | 14,000 | | mg/kg | | | | | | |
| 6 | Americium-241 | 1 | | | | 22 | pCi/g | 1 | 0.01 | 0.01 | | 1 | |
| 7 | Aniline | 7 | | | | | mg/kg | 7 | 0.33 | 0.37 | | | |
| 8 | Anthracene | 8 | | | | 24,000 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 9 | Antimony | 8 | 1 | 3 | 3 | 32 | mg/kg | 7 | 0.098 | 5 | | 8 | |
| 10 | Arsenic | 8 | 3 | 0.6 | 2.1 | 0.4 | mg/kg | 5 | 0.29 | 0.86 | 3 | 1 | 4 |
| 11 | Azobenzene | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 12 | Barium | 8 | 2 | 54 | 120 | 5,600 | mg/kg | 6 | 10.5 | 29.7 | | 8 | |
| 13 | Benzene | 8 | | | | 0.67 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 14 | Benzidine [m-] | 7 | | | | | mg/kg | 7 | 0.33 | 1.8 | | | |
| 15 | Benzo[a]anthracene | 8 | | | | 0.64 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 16 | Benzo[a]pyrene | 8 | | | | 0.1 | mg/kg | 8 | 0.33 | 0.37 | | | 8 |
| 17 | Benzo[b]fluoranthene | 8 | | | | 0.7 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 18 | Benzo[g,h,i]perylene | 8 | | | | 44 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 19 | Benzo[k]fluoranthene | 8 | | | | 1.5 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 20 | Benzoic acid | 8 | | | | 320,000 | mg/kg | 8 | 0.33 | 3.7 | | 8 | |
| 21 | Benzyl alcohol | 8 | | | | | mg/kg | 8 | 0.33 | 1.4 | | | |
| 22 | Beryllium | 8 | 2 | 0.32 | 2.6 | 0.16 | mg/kg | 6 | 0.45 | 1.1 | 2 | | 6 |
| 23 | Bis(2-chloroethoxy)methane | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 24 | Bis(2-chloroethyl)ether | 8 | | | | 0.12 | mg/kg | 8 | 0.33 | 0.68 | | | 8 |
| 25 | Bis(2-chloroisopropyl)ether | 8 | | | | 100 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 26 | Bis(2-ethylhexyl)phthalate | 8 | | | | 50 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 27 | Bromobenzene | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 28 | Bromochloromethane | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 29 | Bromodichloromethane | 8 | | | | 11 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 30 | Bromoform | 8 | | | | 89 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 31 | Bromomethane | 8 | | | | 0.43 | mg/kg | 8 | 0.01 | 0.011 | | 8 | |
| 32 | Bromophenylphenyl ether [4-] | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 33 | Butanone [2-] | 8 | | | | 4,000 | mg/kg | 8 | 0.02 | 0.022 | | 8 | |
| 34 | Butyl benzyl phthalate | 8 | | | | 16,000 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 35 | Butylbenzene [n-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 36 | Butylbenzene [sec-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 37 | Butylbenzene [tert-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 38 | Cadmium | 8 | | | | 80 | mg/kg | 8 | 0.4 | 0.82 | | 8 | |
| 39 | Calcium | 8 | 3 | 330 | 2,550 | | mg/kg | 5 | 201 | 571 | | | |
| 40 | Carbon disulfide | 8 | | | | 7.4 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |

# TABLE 2-10

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF LADP-4, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | Carbon tetrachloride | 8 | | | | 0.21 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 42 | Cesium-137 | 3 | 1 | 0.0243 | 0.0243 | 4 | pCi/g | 2 | 0.145 | 0.2845 | | 3 | |
| 43 | Chloro-3-methylphenol [4-] | 8 | | | | 16,000 | mg/kg | 8 | 0.33 | 0.73 | | 8 | |
| 44 | Chloroaniline [4-] | 8 | | | | 320 | mg/kg | 8 | 0.33 | 1.4 | | 8 | |
| 45 | Chlorobenzene | 8 | | | | 67 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 46 | Chlorodibromomethane | 8 | | | | 83 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 47 | Chloroethane | 8 | | | | 3,300 | mg/kg | 8 | 0.01 | 0.011 | | 8 | |
| 48 | Chloroform | 8 | | | | 0.21 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 49 | Chloromethane | 8 | | | | 6.4 | mg/kg | 8 | 0.01 | 0.011 | | 8 | |
| 50 | Chloronaphthalene [2-] | 8 | | | | 6,400 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 51 | Chlorophenol [o-] | 8 | | | | 400 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 52 | Chlorophenylphenyl ether [4-] | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 53 | Chlorotoluene [o-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 54 | Chlorotoluene [p-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 55 | Chromium | 8 | 3 | 0.8 | 8.8 | 400 | mg/kg | 5 | 1 | 1.6 | | 8 | |
| 56 | Chrysene | 8 | | | | 22 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 57 | Cobalt | 8 | 1 | 5.4 | 5.4 | | mg/kg | 7 | 0.5 | 2.6 | | | |
| 58 | Copper | 8 | 2 | 3.7 | 13 | 3,000 | mg/kg | 6 | 0.69 | 5.2 | | 8 | |
| 59 | Di-n-butyl phthalate | 8 | | | | 8,000 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 60 | Di-n-octyl phthalate | 8 | | | | 1,600 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 61 | Dibenzo[a,h]anthracene | 8 | | | | 0.086 | mg/kg | 8 | 0.33 | 0.37 | | | 8 |
| 62 | Dibenzofuran | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 63 | Dibromo-3-chloropropane [1,2-] | 8 | | | | | mg/kg | 8 | 0.01 | 0.011 | | | |
| 64 | Dibromoethane [1,2-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 65 | Dibromomethane | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 66 | Dichlorobenzene (1,2) [o-] | 16 | | | | 1,600 | mg/kg | 16 | 0.005 | 0.37 | | 16 | |
| 67 | Dichlorobenzene (1,3) [m-] | 16 | | | | 7,200 | mg/kg | 16 | 0.005 | 0.37 | | 16 | |
| 68 | Dichlorobenzene (1,4) [p-] | 16 | | | | 290 | mg/kg | 16 | 0.005 | 0.37 | | 16 | |
| 69 | Dichlorobenzidine [3,3'-] | 8 | | | | 1.6 | mg/kg | 8 | 0.33 | 0.73 | | 8 | |
| 70 | Dichlorodifluoromethane | 8 | | | | | mg/kg | 8 | 0.01 | 0.011 | | | |
| 71 | Dichloroethane [1,1-] | 8 | | | | 410 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 72 | Dichloroethane [1,2-] | 8 | | | | 0.2 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 73 | Dichloroethene [1,1-] | 8 | | | | 0.4 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 74 | Dichloroethene [trans-1,2-] | 8 | | | | 1,600 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 75 | Dichloroethylene [cis-1,2-] | 8 | | | | 800 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 76 | Dichlorophenol [2,4-] | 8 | | | | 240 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 77 | Dichloropropane [1,2-] | 8 | | | | 6.5 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 78 | Dichloropropane [1,3-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 79 | Dichloropropane [2,2-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 80 | Dichloropropene [1,1-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |

# TABLE 2-10

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF LADP-4, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 81 | Dichloropropene [cis-1,3-] | 8 | | | | 0.17 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 82 | Dichloropropene [trans-1,3-] | 8 | | | | 0.17 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 83 | Diethyl phthalate | 8 | | | | 64,000 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 84 | Dimethyl phthalate | 8 | | | | 800,000 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 85 | Dimethylphenol [2,4-] | 8 | | | | 1,600 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 86 | Dinitrophenol [2,4-] | 8 | | | | 160 | mg/kg | 8 | 0.33 | 1.8 | | 8 | |
| 87 | Dinitrotoluene [2,4-] | 8 | | | | 1 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 88 | Dinitrotoluene [2,6-] | 8 | | | | 1 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 89 | Ethylbenzene | 8 | | | | 3,100 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 90 | Fluoranthene | 8 | | | | 3,200 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 91 | Fluorene | 8 | | | | 3,200 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 92 | Hexachlorobenzene | 8 | | | | 0.44 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 93 | Hexachlorobutadiene | 8 | | | | 90 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 94 | Hexachlorocyclopentadiene | 8 | | | | 560 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 95 | Hexachloroethane | 8 | | | | 80 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 96 | Hexanone [2-] | 8 | | | | | mg/kg | 8 | 0.02 | 0.022 | | | |
| 97 | Indeno[1,2,3-cd]pyrene | 8 | | | | 0.41 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 98 | Iron | 8 | 8 | 1,890 | 9,400 | | mg/kg | | | | | | |
| 99 | Isophorone | 8 | | | | 7,400 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 100 | Isopropylbenzene | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 101 | Isopropyltoluene [4-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 102 | Lead | 8 | 7 | 1.5 | 16 | 500 | mg/kg | 1 | 4 | 4 | | 8 | |
| 103 | Lead-210 | 1 | 1 | 2.28 | 2.28 | | pCi/g | | | | | | |
| 104 | Lead-212 | 1 | 1 | 1.98 | 1.98 | | pCi/g | | | | | | |
| 105 | Lithium | 8 | 3 | 7.2 | 23 | | mg/kg | 5 | 1.1 | 8.5 | | | |
| 106 | Magnesium | 8 | 3 | 210 | 1,830 | | mg/kg | 5 | 138 | 331 | | | |
| 107 | Manganese | 8 | 8 | 94.3 | 394 | 8,000 | mg/kg | | | | | 8 | |
| 108 | Methyl iodide | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 109 | Methyl-2-pentanone [4-] | 8 | | | | 510 | mg/kg | 8 | 0.02 | 0.022 | | 8 | |
| 110 | Methyl-4,6-dinitrophenol [2-] | 8 | | | | | mg/kg | 8 | 0.33 | 1.8 | | | |
| 111 | Methylene chloride | 8 | | | | 5.6 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 112 | Methylnaphthalene [2-] | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 113 | Methylphenol [2-] | 8 | | | | 4,000 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 114 | Methylphenol [4-] | 8 | | | | 400 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 115 | Molybdenum | 8 | 1 | 1 | 1 | 400 | mg/kg | 7 | 1 | 6.9 | | 8 | |
| 116 | Naphthalene | 8 | | | | 3,200 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 117 | Nickel | 8 | 1 | 13 | 13 | 1,600 | mg/kg | 7 | 1.9 | 6.2 | | 8 | |
| 118 | Nitroaniline [2-] | 8 | | | | | mg/kg | 8 | 0.33 | 1.8 | | | |
| 119 | Nitroaniline [3-] | 8 | | | | | mg/kg | 8 | 0.33 | 1.8 | | | |
| 120 | Nitroaniline [4-] | 8 | | | | | mg/kg | 8 | 0.33 | 0.83 | | | |

## TABLE 2-10

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF LADP-4, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 121 | Nitrobenzene | 8 | | | | 5.3 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 122 | Nitrophenol [2-] | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 123 | Nitrophenol [4-] | 8 | | | | | mg/kg | 8 | 0.33 | 1.8 | | | |
| 124 | Nitrosodi-n-propylamine [N-] | 8 | | | | 0.1 | mg/kg | 8 | 0.33 | 0.37 | | | 8 |
| 125 | Nitrosodimethylamine [N-] | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 126 | Nitrosodiphenylamine [N-] | 8 | | | | 140 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 127 | Pentachlorophenol | 8 | | | | 5.8 | mg/kg | 8 | 0.33 | 1.8 | | 8 | |
| 128 | Phenanthrene | 8 | | | | | mg/kg | 8 | 0.33 | 0.37 | | | |
| 129 | Phenol | 8 | | | | 48,000 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 130 | Plutonium-238 | 2 | | | | 27 | pCi/g | 2 | 0.01 | 0.01 | | 2 | |
| 131 | Plutonium-239 | 2 | 1 | 0.01 | 0.01 | 24 | pCi/g | 1 | 0.01 | 0.01 | | 2 | |
| 132 | Potassium | 8 | 2 | 430 | 820 | | mg/kg | 6 | 283 | 673 | | | |
| 133 | Potassium-40 | 1 | 1 | 28.5 | 28.5 | | pCi/g | | | | | | |
| 134 | Propylbenzene | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 135 | Pyrene | 8 | | | | 2,400 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 136 | Radium-226 | 1 | 1 | 1.3 | 1.3 | 0.73 | pCi/g | | | | 1 | | |
| 137 | Radium-228 | 1 | 1 | 1.44 | 1.44 | 1.6 | pCi/g | | | | | 1 | |
| 138 | Selenium | 8 | 1 | 0.5 | 0.5 | 400 | mg/kg | 7 | 0.2 | 0.48 | | 8 | |
| 139 | Silver | 8 | 1 | 1.1 | 1.1 | 400 | mg/kg | 7 | 0.63 | 1 | | 8 | |
| 140 | Strontium | 8 | 2 | 5.9 | 8.8 | | mg/kg | 6 | 1.3 | 17 | | | |
| 141 | Strontium-90 | 2 | | | | 8.9 | pCi/g | 2 | 1.0 | 1.0 | | 2 | |
| 142 | Styrene | 8 | | | | 16,000 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 143 | Tetrachloroethane [1,1,1,2-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 144 | Tetrachloroethane [1,1,2,2-] | 8 | | | | 3.9 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 145 | Tetrachloroethylene | 8 | | | | 5.9 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 146 | Thallium | 8 | 2 | 2.1 | 3 | 6.4 | mg/kg | 6 | 0.21 | 0.24 | | 8 | |
| 147 | Thallium-208 | 1 | 1 | 0.466 | 0.466 | | pCi/g | | | | | | |
| 148 | Thorium-228 | 2 | 2 | 0.831 | 2.42 | | pCi/g | | | | | | |
| 149 | Thorium-230 | 2 | 2 | 1.21 | 2.97 | 10 | pCi/g | | | | | 2 | |
| 150 | Thorium-232 | 2 | 2 | 0.806 | 2.25 | 0.88 | pCi/g | | | | 1 | 1 | |
| 151 | Thorium-234 | 1 | 1 | 1.55 | 1.55 | | pCi/g | | | | | | |
| 152 | Toluene | 8 | | | | 890 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 153 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 154 | Trichlorobenzene [1,2,4-] | 8 | | | | 160 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |
| 155 | Trichloroethane [1,1,1-] | 8 | | | | 1,000 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 156 | Trichloroethane [1,1,2-] | 8 | | | | 6.3 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 157 | Trichloroethene | 8 | | | | 3.2 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 158 | Trichlorofluoromethane | 8 | | | | | mg/kg | 8 | 0.005 | 0.011 | | | |
| 159 | Trichlorophenol [2,4,5-] | 8 | | | | 8,000 | mg/kg | 8 | 0.33 | 1.8 | | 8 | |
| 160 | Trichlorophenol [2,4,6-] | 8 | | | | 64 | mg/kg | 8 | 0.33 | 0.37 | | 8 | |

## TABLE 2-10

## SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES OF LADP-4, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 161 | Trichloropropane [1,2,3-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 162 | Trimethylbenzene [1,2,4-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 163 | Trimethylbenzene [1,3,5-] | 8 | | | | | mg/kg | 8 | 0.005 | 0.006 | | | |
| 164 | Tritium | 3 | 1 | 13,200 | 13,200 | 15,000,000 | pCi/g | 2 | 1.0 | 1.0 | | 3 | |
| 165 | Uranium-234 | 2 | 2 | 1.7 | 3.45 | 86 | pCi/g | | | | | 2 | |
| 166 | Uranium-235 | 2 | 2 | 0.0248 | 0.14 | 18 | pCi/g | | | | | 2 | |
| 167 | Uranium-238 | 2 | 2 | 1.87 | 3.66 | 59 | pCi/g | | | | | 2 | |
| 168 | Vanadium | 8 | 2 | 1.4 | 16 | 560 | mg/kg | 6 | 1.4 | 3.8 | | 8 | |
| 169 | Vinyl chloride | 8 | | | | 0.012 | mg/kg | 8 | 0.01 | 0.011 | | 8 | |
| 170 | Xylenes (o + m + p) [Mixed-] | 8 | | | | 160,000 | mg/kg | 8 | 0.005 | 0.006 | | 8 | |
| 171 | Zinc | 8 | 8 | 9.6 | 41.5 | 24,000 | mg/kg | | | | | 8 | |
| | **Total Number of Values** | **1,263** | **98** | | | | | **1,165** | | | **7** | **800** | **42** |

## TABLE 2-11

## SUMMARY OF ANALYTICAL RESULTS FOR WATER SAMPLES OF DP SPRING, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 5 | | | | 2,100 | µg/l | 5 | 10 | 10 | | 5 | |
| 2 | Acenaphthylene | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 3 | Acetone | 5 | | | | 3,500 | µg/l | 5 | 20 | 20 | | 5 | |
| 4 | Alpha | 2 | 1 | 7 | 7 | 15 | pCi/l | 1 | 2 | 2 | | 2 | |
| 5 | Aluminum | 4 | 4 | 0.78 | 2.3 | | mg/l | | | | | | |
| 6 | Aniline | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 7 | Anthracene | 5 | | | | 10,000 | µg/l | 5 | 10 | 10 | | 5 | |
| 8 | Antimony | 4 | | | | 6 | µg/l | 4 | 1 | 1 | | 4 | |
| 9 | Arsenic | 4 | 2 | 2 | 3 | 50 | µg/l | 2 | 2 | 2 | | 4 | |
| 10 | Azobenzene | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 11 | Barium | 4 | 4 | 0.035 | 0.07 | 2,000 | mg/l | | | | | 4 | |
| 12 | Benzene | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | 5 |
| 13 | Benzidine [m-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 14 | Benzo[a]anthracene | 5 | | | | 0.1 | µg/l | 5 | 10 | 10 | | | 5 |
| 15 | Benzo[a]pyrene | 5 | | | | 0.2 | µg/l | 5 | 10 | 10 | | | 5 |
| 16 | Benzo[b]fluoranthene | 5 | | | | 0.2 | µg/l | 5 | 10 | 10 | | | 5 |
| 17 | Benzo[g,h,i]perylene | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 18 | Benzo[k]fluoranthene | 5 | | | | 0.2 | µg/l | 5 | 10 | 10 | | | 5 |
| 19 | Benzoic acid | 5 | | | | 140,000 | µg/l | 5 | 10 | 10 | | 5 | |
| 20 | Benzyl alcohol | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 21 | Beryllium | 4 | | | | 4 | mg/l | 4 | 0.001 | 0 | | 4 | |
| 22 | Beta | 2 | 2 | 140 | 160 | | pCi/l | | | | | | |
| 23 | Bis(2-chloroethoxy)methane | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 24 | Bis(2-chloroethyl)ether | 5 | | | | 0.032 | µg/l | 5 | 10 | 10 | | | 5 |
| 25 | Bis(2-chloroisopropyl)ether | 5 | | | | 0.5 | µg/l | 5 | 10 | 10 | | | 5 |
| 26 | Bis(2-ethylhexyl)phthalate | 5 | | | | 4 | µg/l | 5 | 10 | 10 | | | 5 |
| 27 | Boron | 3 | 3 | 0.058 | 0.23 | | mg/l | | | | | | |
| 28 | Bromine | 4 | | | | | mg/l | 4 | 1 | 1 | | | |
| 29 | Bromobenzene | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 30 | Bromochloromethane | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 31 | Bromodichloromethane | 5 | | | | 0.56 | µg/l | 5 | 5 | 5 | | | 5 |
| 32 | Bromoform | 5 | | | | 4.4 | µg/l | 5 | 5 | 5 | | | 5 |
| 33 | Bromomethane | 5 | | | | 49 | µg/l | 5 | 10 | 10 | | 5 | |
| 34 | Bromophenylphenyl ether [4-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 35 | Butanone [2-] | 5 | | | | 1,700 | µg/l | 5 | 20 | 20 | | 5 | |
| 36 | Butyl benzyl phthalate | 5 | | | | 100 | µg/l | 5 | 10 | 10 | | 5 | |
| 37 | Butylbenzene [n-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 38 | Butylbenzene [sec-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |

## TABLE 2-11

## SUMMARY OF ANALYTICAL RESULTS FOR WATER SAMPLES OF DP SPRING, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | Butylbenzene [tert-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 40 | Cadmium | 4 | | | | 5 | mg/l | 4 | 0.003 | 0 | | 4 | |
| 41 | Calcium | 1 | 1 | 15 | 15 | | mg/l | | | | | | |
| 42 | Carbon disulfide | 5 | | | | 3,500 | µg/l | 5 | 5 | 5 | | 5 | |
| 43 | Carbon tetrachloride | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | 5 |
| 44 | Cesium-137 | 1 | 1 | 1.93 | 1.93 | 110 | pCi/l | | | | | 1 | |
| 45 | Chloro-3-methylphenol [4-] | 5 | | | | 7,000 | µg/l | 5 | 10 | 10 | | 5 | |
| 46 | Chloroaniline [4-] | 5 | | | | 140 | µg/l | 5 | 10 | 10 | | 5 | |
| 47 | Chlorobenzene | 5 | | | | 100 | µg/l | 5 | 5 | 5 | | 5 | |
| 48 | Chlorodibromomethane | 5 | | | | 4 | µg/l | 5 | 5 | 5 | | | 5 |
| 49 | Chloroethane | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 50 | Chloroform | 5 | | | | 100 | µg/l | 5 | 5 | 5 | | 5 | |
| 51 | Chloromethane | 5 | | | | 27 | µg/l | 5 | 10 | 10 | | 5 | |
| 52 | Chloronaphthalene [2-] | 5 | | | | 2,800 | µg/l | 5 | 10 | 10 | | 5 | |
| 53 | Chlorophenol [o-] | 5 | | | | 170 | µg/l | 5 | 10 | 10 | | 5 | |
| 54 | Chlorophenylphenyl ether [4-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 55 | Chlorotoluene [o-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 56 | Chlorotoluene [p-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 57 | Chromium | 4 | 1 | 0.019 | 0.019 | 100 | mg/l | 3 | 0.004 | 0 | | 4 | |
| 58 | Chrysene | 5 | | | | 0.2 | µg/l | 5 | 10 | 10 | | | 5 |
| 59 | Cobalt | 3 | | | | | mg/l | 3 | 0.004 | 0 | | | |
| 60 | Copper | 4 | 1 | 0.049 | 0.049 | 1,300 | mg/l | 3 | 0.004 | 0 | | 4 | |
| 61 | Cyanide | 4 | | | | 200 | mg/l | 4 | 0.01 | 0.01 | | 4 | |
| 62 | Di-n-butyl phthalate | 5 | | | | 3,500 | µg/l | 5 | 10 | 10 | | 5 | |
| 63 | Di-n-octyl phthalate | 5 | | | | 700 | µg/l | 5 | 10 | 10 | | 5 | |
| 64 | Dibenzo[a,h]anthracene | 5 | | | | 0.3 | µg/l | 5 | 10 | 10 | | | 5 |
| 65 | Dibenzofuran | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 66 | Dibromo-3-chloropropane [1,2-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 67 | Dibromoethane [1,2-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 68 | Dibromomethane | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 69 | Dichlorobenzene (1,2) [o-] | 10 | | | | 600 | µg/l | 10 | 5 | 10 | | 10 | |
| 70 | Dichlorobenzene (1,3) [m-] | 10 | | | | 600 | µg/l | 10 | 5 | 10 | | 10 | |
| 71 | Dichlorobenzene (1,4) [p-] | 10 | | | | 75 | µg/l | 10 | 5 | 10 | | 10 | |
| 72 | Dichlorobenzidine [3,3'-] | 5 | | | | 0.078 | µg/l | 5 | 10 | 10 | | | 5 |
| 73 | Dichlorodifluoromethane | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 74 | Dichloroethane [1,1-] | 5 | | | | 3,500 | µg/l | 5 | 5 | 5 | | 5 | |
| 75 | Dichloroethane [1,2-] | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | 5 |
| 76 | Dichloroethene [1,1-] | 5 | | | | 7 | µg/l | 5 | 5 | 5 | | 5 | |

# TABLE 2-11

## SUMMARY OF ANALYTICAL RESULTS FOR WATER SAMPLES OF DP SPRING, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Dichloroethene [trans-1,2-] | 5 | | | | 100 | µg/l | 5 | 5 | 5 | | 5 | |
| 78 | Dichloroethylene [cis-1,2-] | 5 | | | | 70 | µg/l | 5 | 5 | 5 | | 5 | |
| 79 | Dichlorophenol [2,4-] | 5 | | | | 100 | µg/l | 5 | 10 | 10 | | 5 | |
| 80 | Dichloropropane [1,2-] | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | 5 |
| 81 | Dichloropropane [1,3-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 82 | Dichloropropane [2,2-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 83 | Dichloropropene [1,1-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 84 | Dichloropropene [cis-1,3-] | 5 | | | | 0.19 | µg/l | 5 | 5 | 5 | | | 5 |
| 85 | Dichloropropene [trans-1,3-] | 5 | | | | 0.19 | µg/l | 5 | 5 | 5 | | | 5 |
| 86 | Diethyl phthalate | 5 | | | | 5,000 | µg/l | 5 | 10 | 10 | | 5 | |
| 87 | Dimethyl phthalate | 5 | | | | 350,000 | µg/l | 5 | 10 | 10 | | 5 | |
| 88 | Dimethylphenol [2,4-] | 5 | | | | 700 | µg/l | 5 | 10 | 10 | | 5 | |
| 89 | Dinitrophenol [2,4-] | 5 | | | | 70 | µg/l | 5 | 10 | 10 | | 5 | |
| 90 | Dinitrotoluene [2,4-] | 5 | | | | 0.05 | µg/l | 5 | 10 | 10 | | | 5 |
| 91 | Dinitrotoluene [2,6-] | 5 | | | | 0.05 | µg/l | 5 | 10 | 10 | | | 5 |
| 92 | Ethylbenzene | 5 | | | | 700 | µg/l | 5 | 5 | 5 | | 5 | |
| 93 | Fluoranthene | 5 | | | | 1,400 | µg/l | 5 | 10 | 10 | | 5 | |
| 94 | Fluorene | 5 | | | | 1,400 | µg/l | 5 | 10 | 10 | | 5 | |
| 95 | Hexachlorobenzene | 5 | | | | 1 | µg/l | 5 | 10 | 10 | | | 5 |
| 96 | Hexachlorobutadiene | 5 | | | | 4.5 | µg/l | 5 | 10 | 10 | | | 5 |
| 97 | Hexachlorocyclopentadiene | 5 | | | | 50 | µg/l | 5 | 10 | 10 | | 5 | |
| 98 | Hexachloroethane | 5 | | | | 25 | µg/l | 5 | 10 | 10 | | 5 | |
| 99 | Hexanone [2-] | 5 | | | | | µg/l | 5 | 20 | 20 | | | |
| 100 | Indeno[1,2,3-cd]pyrene | 5 | | | | 0.4 | µg/l | 5 | 10 | 10 | | | 5 |
| 101 | Iron | 4 | 4 | 0.51 | 0.69 | | mg/l | | | | | | |
| 102 | Isophorone | 5 | | | | 370 | µg/l | 5 | 10 | 10 | | 5 | |
| 103 | Isopropylbenzene | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 104 | Isopropyltoluene [4-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 105 | Lead | 4 | 2 | 1.4 | 3 | 50 | µg/l | 2 | 1 | 2 | | 4 | |
| 106 | Lithium | 4 | 4 | 0.016 | 0.026 | | mg/l | | | | | | |
| 107 | Magnesium | 1 | 1 | 1.9 | 1.9 | | mg/l | | | | | | |
| 108 | Manganese | 4 | 4 | 0.002 | 0.063 | 3,500 | mg/l | | | | | 4 | |
| 109 | Mercury | 3 | | | | 2 | µg/l | 3 | 0.2 | 0.2 | | 3 | |
| 110 | Methyl iodide | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 111 | Methyl-2-pentanone [4-] | 5 | | | | 1,700 | µg/l | 5 | 20 | 20 | | 5 | |
| 112 | Methyl-4,6-dinitrophenol [2-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 113 | Methylene chloride | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | 5 |
| 114 | Methylnaphthalene [2-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |

## TABLE 2-11

## SUMMARY OF ANALYTICAL RESULTS FOR WATER SAMPLES OF DP SPRING, OU 1106

| Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115 Methylphenol [2-] | 5 | | | | 1,700 | µg/l | 5 | 10 | 10 | | 5 | |
| 116 Methylphenol [4-] | 5 | | | | 175 | µg/l | 5 | 10 | 10 | | 5 | |
| 117 Molybdenum | 4 | 2 | 0.01 | 0.01 | 180 | mg/l | 2 | 0.008 | 0.01 | | 4 | |
| 118 Naphthalene | 5 | | | | 1,400 | µg/l | 5 | 10 | 10 | | 5 | |
| 119 Nickel | 4 | 1 | 0.04 | 0.04 | 100 | mg/l | 3 | 0.01 | 0.01 | | 4 | |
| 120 Nitroaniline [2-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 121 Nitroaniline [3-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 122 Nitroaniline [4-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 123 Nitrobenzene | 5 | | | | 18 | µg/l | 5 | 10 | 10 | | 5 | |
| 124 Nitrophenol [2-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 125 Nitrophenol [4-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 126 Nitrosodi-n-propylamine [N-] | 5 | | | | 0.005 | µg/l | 5 | 10 | 10 | | | 5 |
| 127 Nitrosodimethylamine [N-] | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 128 Nitrosodiphenylamine [N-] | 5 | | | | 7.1 | µg/l | 5 | 10 | 10 | | | 5 |
| 129 Pentachlorophenol | 5 | | | | 1 | µg/l | 5 | 10 | 10 | | | 5 |
| 130 Phenanthrene | 5 | | | | | µg/l | 5 | 10 | 10 | | | |
| 131 Phenol | 5 | | | | 21,000 | µg/l | 5 | 10 | 10 | | 5 | |
| 132 Plutonium-238 | 1 | | | | 15 | pCi/l | 1 | 0.04 | 0.04 | | 1 | |
| 133 Plutonium-239 | 1 | 1 | 0.051 | 0.051 | 15 | pCi/l | | | | | 1 | |
| 134 Potassium | 1 | 1 | 10 | 10 | | mg/l | | | | | | |
| 135 Propylbenzene | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 136 Pyrene | 5 | | | | 1,000 | µg/l | 5 | 10 | 10 | | 5 | |
| 137 Radium-226 | 7 | 7 | 0.89 | 4.3 | 20 | pCi/l | | | | | 7 | |
| 138 Selenium | 4 | 1 | 2 | 2 | 50 | µg/l | 3 | 2 | 2 | | 4 | |
| 139 Silicon Dioxide | 4 | 4 | 18 | 25 | | mg/l | | | | | | |
| 140 Silver | 4 | 1 | 0.03 | 0.03 | 170 | mg/l | 3 | 0.01 | 0.02 | | 4 | |
| 141 Sodium | 1 | 1 | 47 | 47 | | mg/l | | | | | | |
| 142 Strontium | 4 | 4 | 0.088 | 0.15 | | mg/l | | | | | | |
| 143 Strontium-90 | 3 | 3 | 48.4 | 97.5 | 8 | pCi/l | | | | 3 | | |
| 144 Styrene | 5 | | | | 100 | µg/l | 5 | 5 | 5 | | 5 | |
| 145 Tetrachloroethane [1,1,1,2-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 146 Tetrachloroethane [1,1,2,2-] | 5 | | | | 1.8 | µg/l | 5 | 5 | 5 | | | 5 |
| 147 Tetrachloroethylene | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | 5 |
| 148 Thallium | 4 | | | | 2 | µg/l | 4 | 1 | 1 | | 4 | |
| 149 Toluene | 5 | | | | 1,000 | µg/l | 5 | 5 | 5 | | 5 | |
| 150 Trichloro-1,2,2-trifluoroethane [1,1,2-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 151 Trichlorobenzene [1,2,4-] | 5 | | | | 70 | µg/l | 5 | 10 | 10 | | 5 | |
| 152 Trichloroethane [1,1,1-] | 5 | | | | 200 | µg/l | 5 | 5 | 5 | | 5 | |

## TABLE 2-11

## SUMMARY OF ANALYTICAL RESULTS FOR WATER SAMPLES OF DP SPRING, OU 1106

| | Analyte | Number of Values per Analyte | Number of Values >=LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 153 | Trichloroethane [1,1,2-] | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | |
| 154 | Trichloroethene | 5 | | | | 5 | µg/l | 5 | 5 | 5 | | | |
| 155 | Trichlorofluoromethane | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 156 | Trichlorophenol [2,4,5-] | 5 | | | | 3,500 | µg/l | 5 | 10 | 10 | | 5 | |
| 157 | Trichlorophenol [2,4,6-] | 5 | | | | 3.2 | µg/l | 5 | 10 | 10 | | | 5 |
| 158 | Trichloropropane [1,2,3-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 159 | Trimethylbenzene [1,2,4-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 160 | Trimethylbenzene [1,3,5-] | 5 | | | | | µg/l | 5 | 5 | 5 | | | |
| 161 | Uranium-234 | 4 | 4 | 0.395 | 0.725 | 19 | pCi/l | | | | | 4 | |
| 162 | Uranium-235 | 4 | | | | 21 | pCi/l | 4 | 0.07 | 0.07 | | 4 | |
| 163 | Uranium-238 | 4 | 3 | 0.098 | 0.442 | 6.7 | pCi/l | 1 | 0.08 | 0.08 | | 4 | |
| 164 | Vanadium | 4 | 2 | 7 | 23 | 240 | µg/l | 2 | 4 | 4 | | 4 | |
| 165 | Vinyl acetate | 2 | | | | | µg/l | 2 | 10 | 10 | | | |
| 166 | Vinyl chloride | 5 | | | | 2 | µg/l | 5 | 10 | 10 | | | 5 |
| 167 | Xylenes (o + m + p) [Mixed-] | 5 | | | | 10,000 | µg/l | 5 | 5 | 5 | | 5 | |
| 168 | Zinc | 4 | 2 | 0.011 | 0.3 | 10,000 | mg/l | 2 | 0.01 | 0.02 | | 4 | |
| | **Total Number of Values** | **786** | **72** | | | | | **714** | | | **3** | **350** | **160** |

## 2.12 ADS 1111—TAs-6, -7, -22, -40, -58, -62 (Project Leader: Cheryl K. Rofer)

**Location of waste burials in Aggregate 1.** The locations of waste burials in Aggregate 1, MDA F and Adjacent Pit [PRSs 6-005 and 6-007(a–e)], are being determined by overlay of data from aerial photo analysis and geophysics. It is necessary to locate burial areas accurately before drilling can take place, because reports state that explosives were buried in MDA F.

Historical aerial overhead and oblique photographs have been located and entered into a geographic information system. Computer analysis of these photographs, including transformation of the oblique photographs into overhead views, has produced information on disturbed areas and probable burial locations. This work, "Digital Analysis of Historical Aerial Survey Photographs for Waste Site Characterization at Los Alamos National Lab" by Paul Pope and Edward Van Eeckhout, was presented at the Tenth Thematic Conference on Geologic Remote Sensing, San Antonio, Texas, May 9–12.

The parts of Aggregate 1 believed to contain waste burial sites were cleared of brush and fences in preparation for the geophysical surveys. The area was surveyed with an innovative magnetometer developed by EG&G Idaho. This device, the Rapid Geophysical Surveyor, can acquire magnetometric data extremely rapidly, so that a high-resolution map of subsurface magnetic material can be prepared. This surveyor is compact enough to operate in a forested area like Aggregate 1; therefore, tree removal was unnecessary. Nearly 126,000 data points were collected at 1-ft-by-1-ft intervals over a 1.5-hectare area. Data were collected over a period of four days of high winds and snow. An equivalent operation with standard magnetometry equipment would probably have required two months of field work.

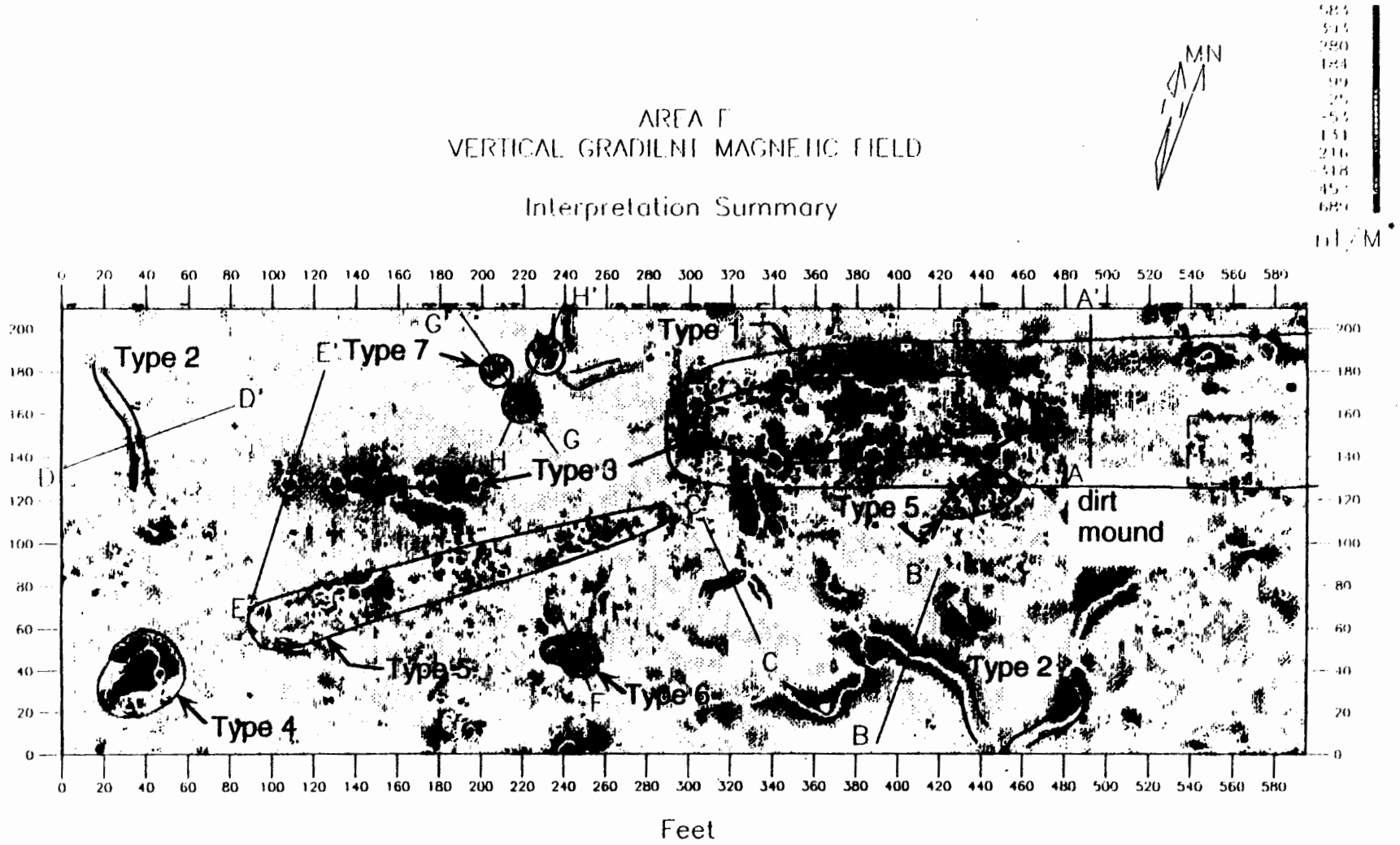
EG&G Idaho has submitted a report of the magnetometry survey of Aggregate 1. Figure 2-6 provides a summary of the results of the magnetometry survey (a colored map is available from Cheryl Rofer at 505-667-2988). The Type 1 anomaly corresponds to a feature identified in the aerial photography analysis as a probable waste burial area. The Type 2 anomalies appear to be metal chain, strap, or cable buried at a depth of 2–3 ft. The Type 3 anomalies within the Type 1 area appear to be fence post emplacements around the burial area. The Type 4 anomaly corresponds to the location of PRS 6-005, a timbered pit probably used for explosives tests. This anomaly appears to contain the greatest amount of ferrous metal in the area. The Type 5 anomalies appear to be small objects shallowly buried and may be metal debris or rocks. The Type 6 anomaly appears to be vertical pipes or casings, as do the Type 3 anomalies between the Type 5 and Type 7 anomalies. The Type 7 anomalies correspond to three pipes protruding from the ground, which appear not to be connected to underground storage tanks. Anecdotal historical information suggests that these pipes were part of an experimental setup during the Manhattan Project. The results of the magnetometry survey appear to correspond closely to the results of the analysis of the aerial photos.

**Surface soil sampling in Aggregates 2 and 3.** Surface soil samples were collected for PRSs 22-014(a,b), 22-015(a–c,e), and 40-005. Liquid and sludge samples were collected from PRSs 22-014(a) and 22-015(a,b). These PRSs include several explosives settling basins, their outfalls, and the runoff area from the plating and etching operations in Building TA-22-52. Samples were screened in the field for radiation, organics, and high explosives. One hundred fifty-seven samples were collected and submitted for chemical analysis. Figures 2-7 through 2-11 indicate the locations of soil samples.

**RFI work plan for OU 1111.** A notice of deficiency for the RFI work plan was received. A response was prepared and sent to the EPA.

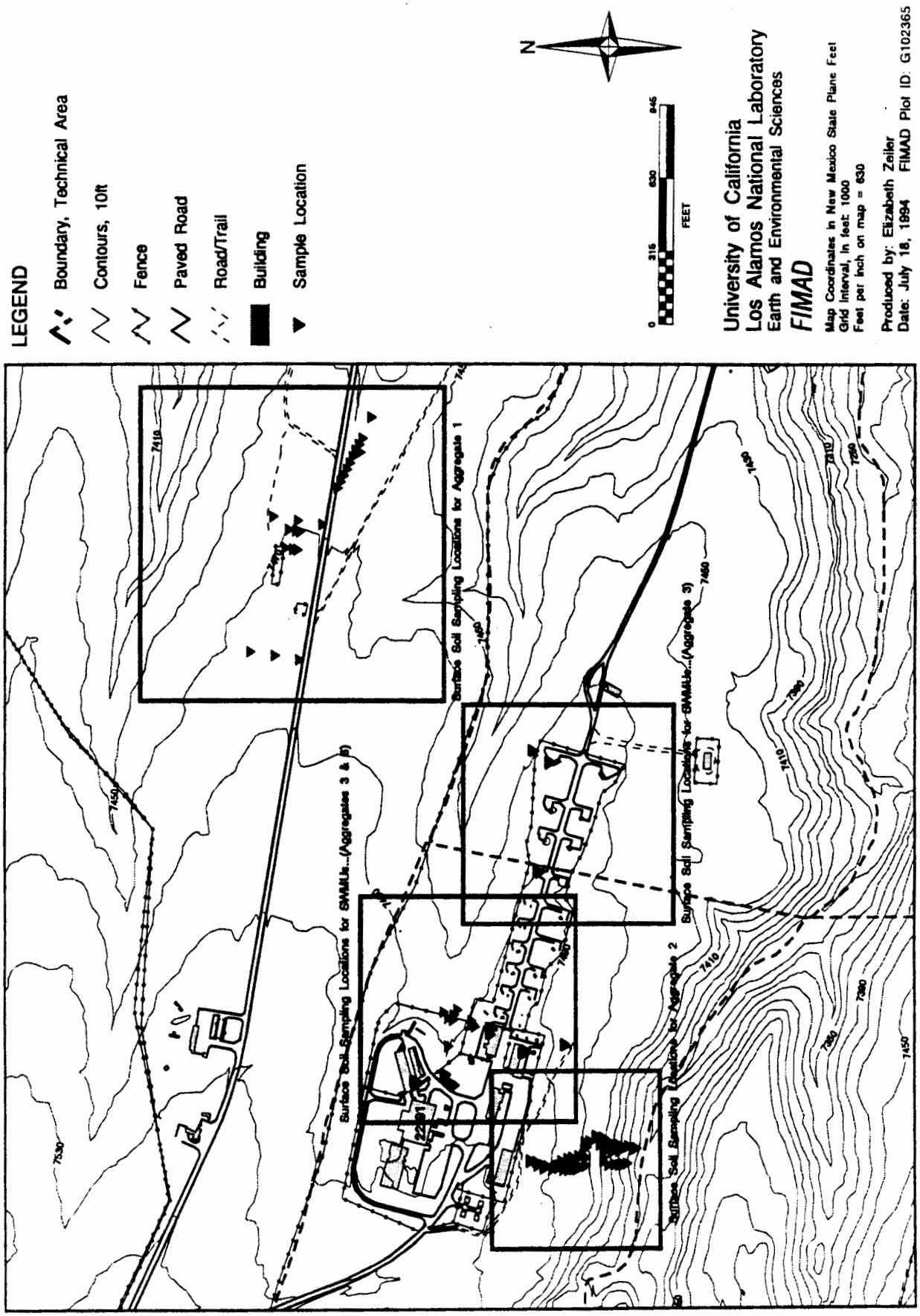
**Landfill cover pilot study.** The pilot study on landfill covers continues. During the past winter, very little precipitation fell on the test area, resulting in little data about flow; however, soil moisture measurements continue. A draft paper on the results from two years of data collection is being circulated for comments. A report on the comparison of water balances in soil under a gravel mulch and in a comparable unmulched plot has been completed and is under review. Gravel mulches appear to have the potential to stabilize soil inexpensively.

**Plating and etching bath outflow pilot study.** Samples of altered and unaltered tuff from PRS 22-015(c), the plating bath outflow, are being examined for their mineralogical composition to help determine the nature and degree of contamination and possible remediation schemes. During this quarter, the unaltered tuff was examined to determine the background levels and distributions of metals in the weathered tuff. The materials are being examined with the same procedures and techniques used for the tuff altered by the plating bath fluids. Experiments in which unaltered tuff is exposed to metal-containing solutions are being performed. The results of these experiments will contribute to this pilot study.




*nT/M = nanoteslas per meter

**Figure 2-6. Area F vertical gradient magnetic field: interpretation summary, OU 1111.**


LEGEND
Boundary, Technical Area
Contours, 10ft
Fence
Paved Road
Road/Trail
Building
Sample Location
N
0
315
630
945
FEET
University of California
Los Alamos National Laboratory
Earth and Environmental Sciences
FIMAD
Map Coordinates in New Mexico State Plane Feet
Grid interval, in feet: 1000
Feet per inch on map = 630
Produced by: Elizabeth Zeiler
Date: July 18, 1994 FIMAD Plot ID: G102365
Surface Soil Sampling Locations for Aggregate 1
Surface Soil Sampling Locations for SWMUs...(Aggregates 3 & 5)
Surface Soil Sampling Locations for SWMUs...(Aggregate 3)
Surface Soil Sampling Locations for Aggregate 2
7530
7450
7410
7390
7370
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7330
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7110
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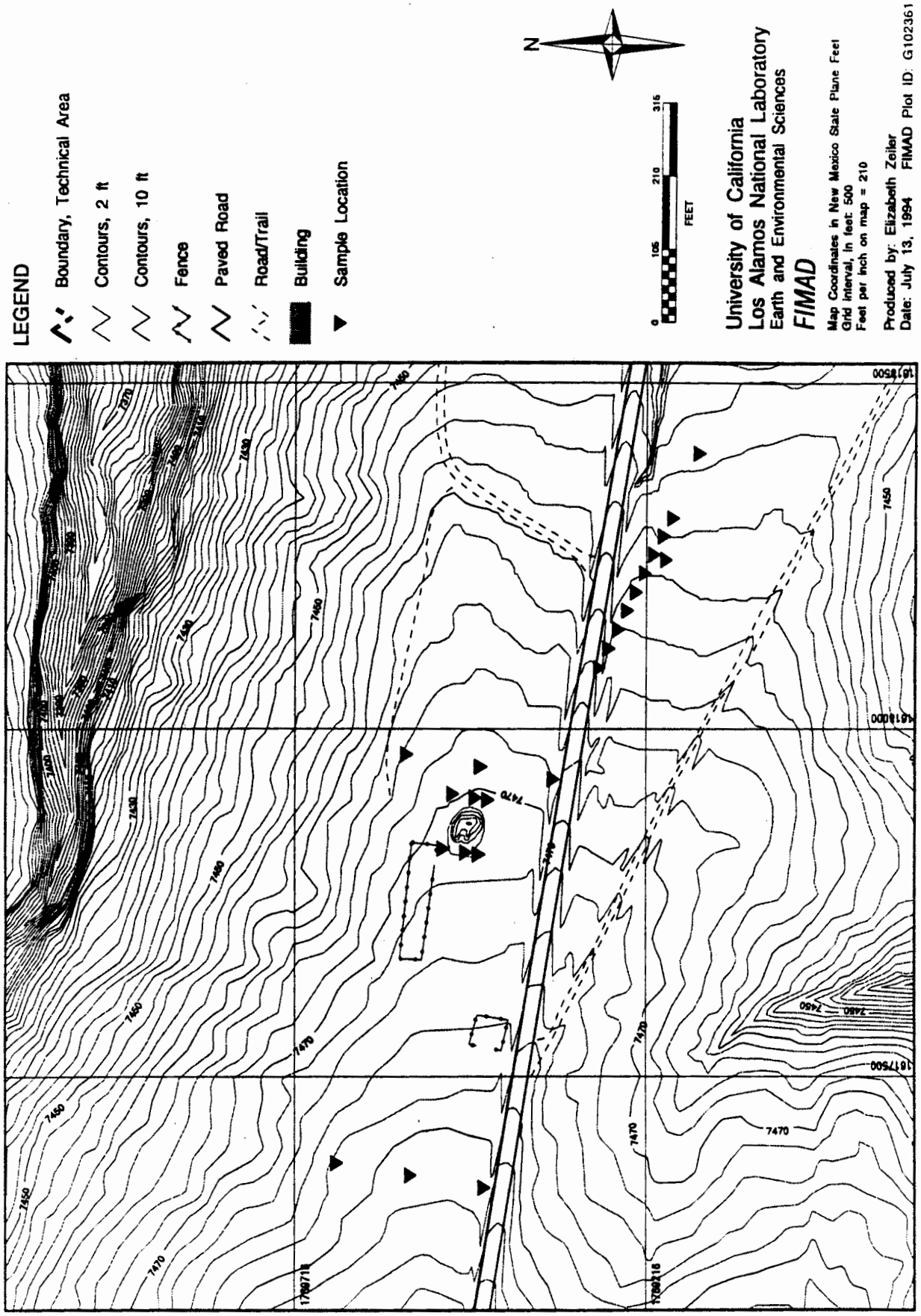
-750
-770
-790


LEGEND
Boundary, Technical Area
Contours, 2 ft
Contours, 10 ft
Fence
Paved Road
Road/Trail
Building
Sample Location
N
0
105
210
315
FEET
University of California
Los Alamos National Laboratory
Earth and Environmental Sciences
FIMAD
Map Coordinates in New Mexico State Plane Feet
Grid interval, in feet: 500
Feet per inch on map = 210
Produced by: Elizabeth Zeiler
Date: July 13, 1994 FIMAD Plot ID: G102361
1618500
1618000
1617500
1709716
1709216
7450
7460
7470
7480
7490
7500
7510
7520
7530
7540
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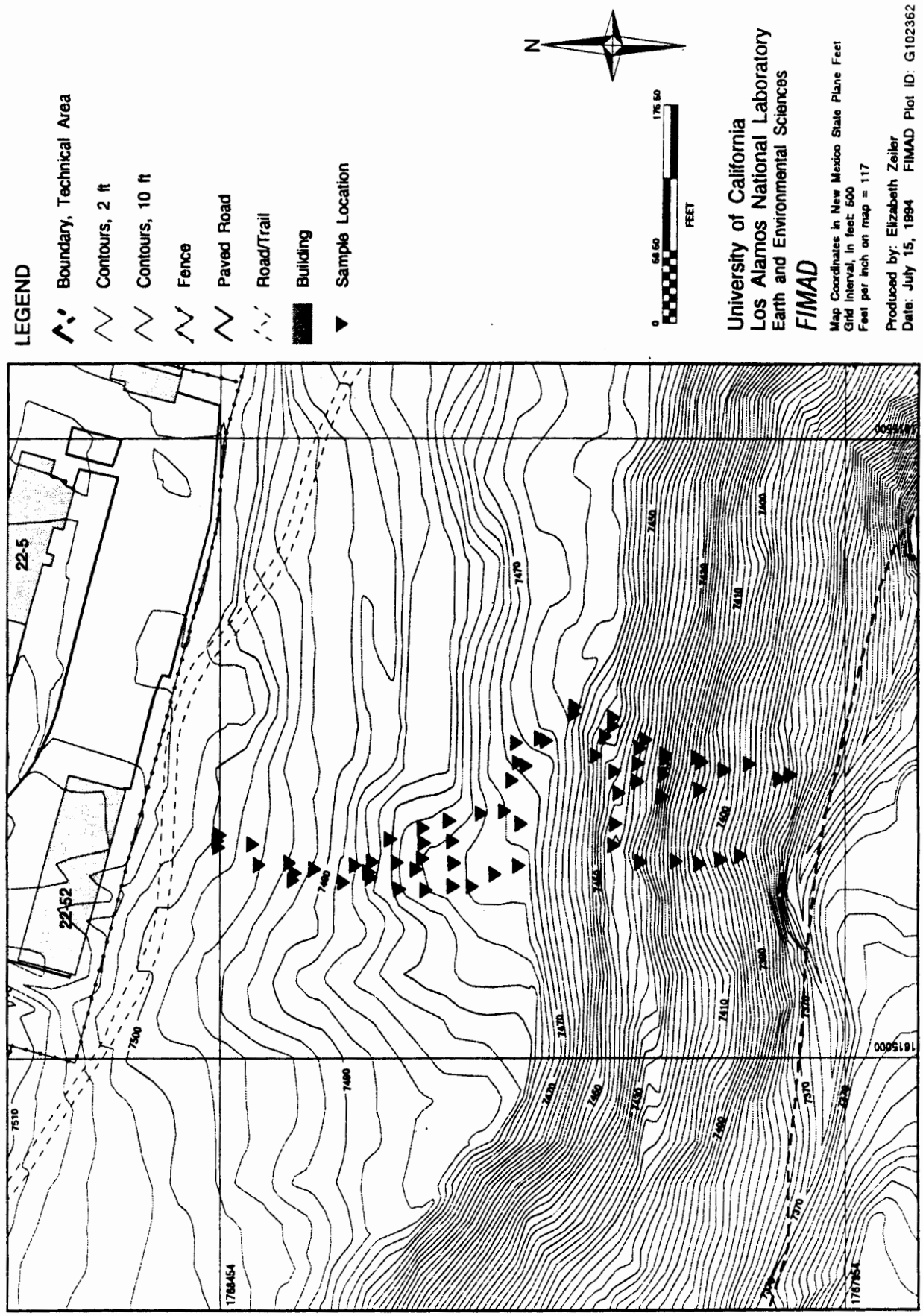



**Figure 2-9. Surface soil sampling locations for Aggregate 2, OU 1111.**

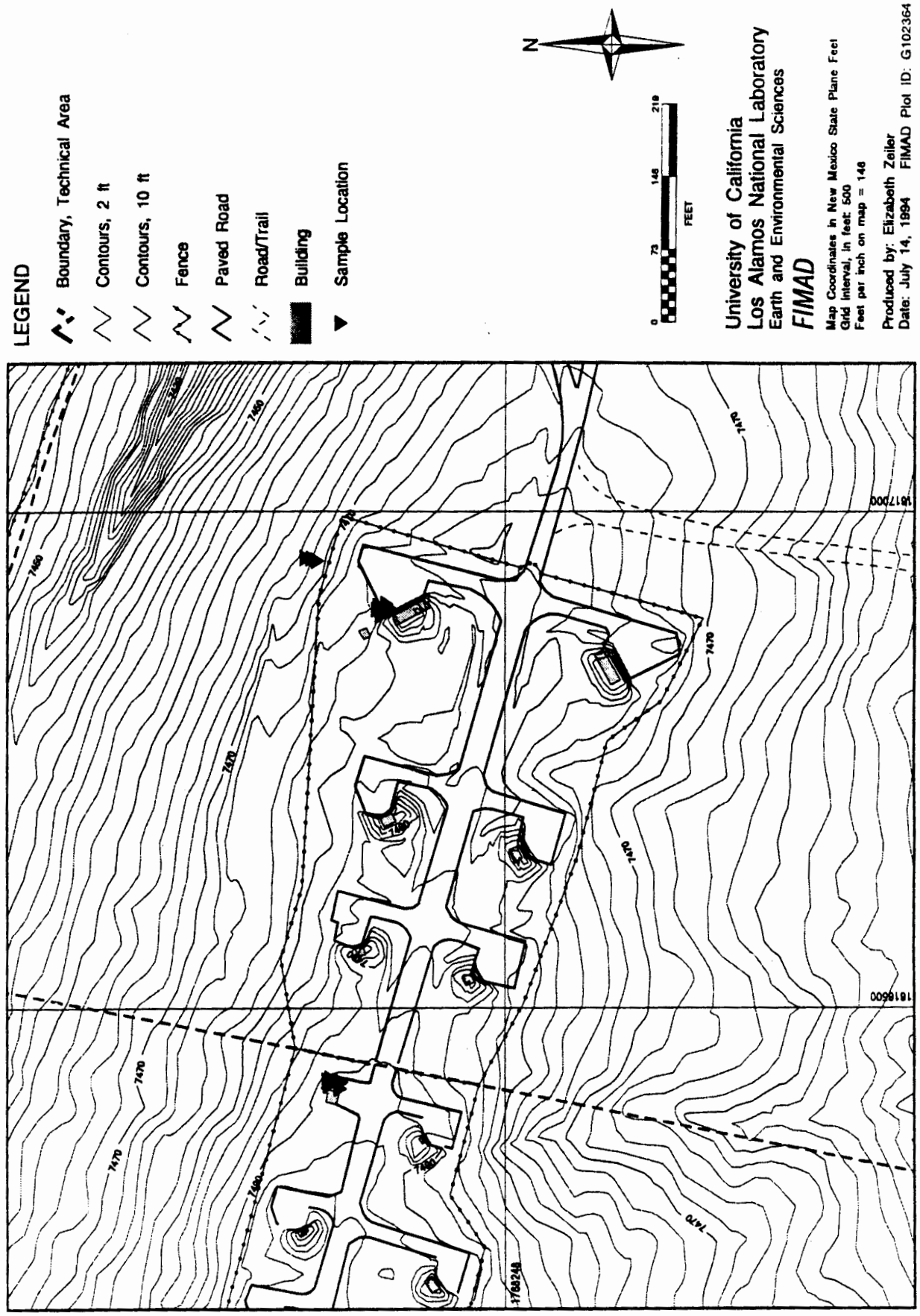



**Figure 2-10. Surface soil sampling locations for SWMUs...(Aggregate 3), OU 1111.**

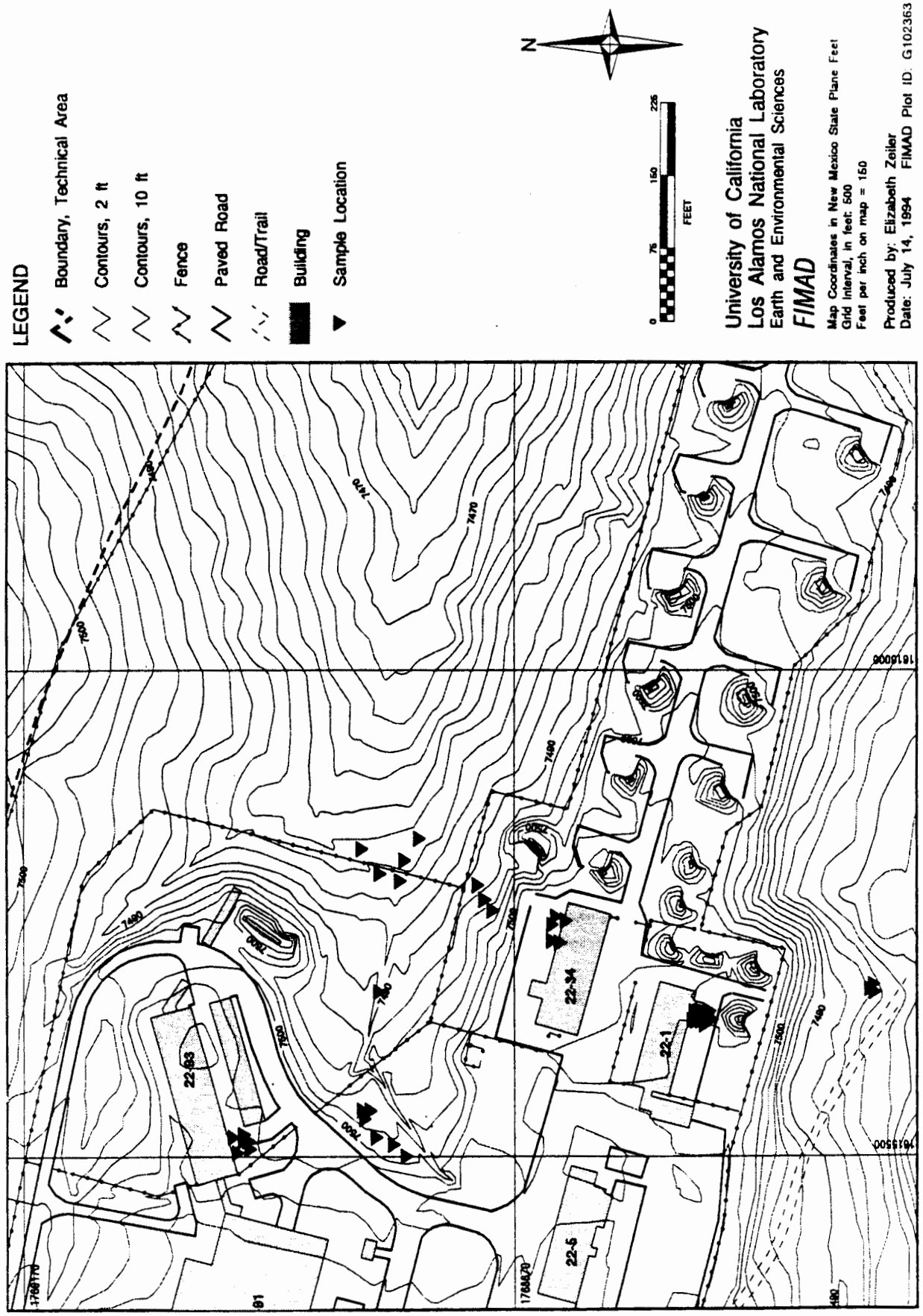



**Figure 2-11. Surface soil sampling locations for SWMUs...(Aggregate 3 and 6), OU 1111.**

## 2.13 ADS 1114—TAs-3, -30, -59, -60, -61, -64 (Project Leader: Garry Allen)

The primary focus for this quarter has been the continued investigation of the remaining 186 PRSs, required for the preparation of Volume II of the RFI work plan for OU 1114.

Three soil lifts were completed at PRS 3-010(a), the mercury spill at TA-30. Analyses of samples to determine whether the total petroleum hydrocarbons associated with this PRS were mineral oils also resulted in the detection of contaminants from solvents. The historical use of these solvents renders them "spent solvents"; therefore, they are classified as listed hazardous waste. The disposal of solvent-contaminated soil in Pit 37 resulted in an "off-normal" occurrence, reported in accord with DOE Order 5000.3b. Waste disposal at Pit 37 was stopped entirely, and criteria for waste acceptance at Area G are being re-evaluated.

In June, samples were collected from the soils excavated at the mercury spill; the samples are currently stored at TA-54, Area L mixed waste dome. Two of the samples were split with the NMED. The samples were shipped to a certified laboratory in Utah as part of the waste acceptance criteria for Envirocare, the mixed waste disposal facility that is targeted to receive this waste stream.

Equipment and supplies are being stocked for the summer sampling operation. The Site-Specific Health and Safety Plan and Waste Management Plan are in the final stages of review. Once the comments are signed, the sampling plans that are detailed in Volume I of the RFI work plan for OU 1114 will be implemented.

## 2.14 ADS 1122—TAs-33, -70 (Project Leader: Roy Michelotti)

The OU team completed the review of analytical data for 20 of 25 PRSs sampled during the May–June 1993 sampling campaign. (The data set is still incomplete for five MDA K PRSs.) Team members inspected the sample locations for each PRS as part of the decision process. Ten PRSs are being recommended for no further action. Seven PRSs are currently undergoing a preliminary risk assessment evaluation to determine if further action needs to be recommended. Three PRSs must undergo further action, possibly Phase II investigations or a voluntary corrective action. Portions of the Phase I Report for these 20 PRSs are in draft form and are undergoing a review by the OU team.

A readiness review was completed before commencing field work. The contract field team completed all surface sampling scheduled at TA-33 for the 1994 sampling campaign and has started excavation sampling. Excavation sampling in the landfills was canceled because of newly discovered archival information. The new information on the landfill will require a new set of decisions. A large capacitor (1' x 2' x 3') was discovered in canyon-side disposal PRS 33-009 at Area 6; it was sampled and removed. The sample analyses indicate that the capacitor oil was polychlorinated biphenyl (PCB)-contaminated but that the surrounding soil was not contaminated.

Radiation data from EG&G overflights were evaluated. Nothing was detected above background; therefore, no changes in the planned sampling approach was needed. Data from geophysical studies of berms and landfills were evaluated; regions with anomalous geophysical signatures will be sampled.

## 2.15 ADS 1127—TA-35, TSL-125 (Project Leader: David McInroy)

The NMED issued a notice of deficiency May 5, 1994, on the Closure Plan Amendment submitted by the Laboratory in October 1993. A partial response was submitted on schedule by the Laboratory. In June 1994, the NMED granted a 30- and a 60-day extension for specific items in the notice of deficiency. Due dates for the extension items are July 8 and August 8, 1994.

## 2.16 ADS 1129—TAs-4, -5, -35, -42, -48, -52, -55, -63, -66 (Project Leader: Allyn Pratt)

The field team completed archival research and conducted field surveys for sampling activities at TA-35 Aggregates D [PRS 35-003(r)] (deep hole), E, and G to determine schedule and drilling feasibility. Survey grids were set up at Aggregates D, [PRS 35-003(r)], E, and G for health and safety, radiological, and organic vapor analyzer surveys. The grids covered an area of 1,300 $ft^2$ and contain 474 points. OU 1129

personnel prepared memoranda to document health and safety and engineering surveys and to justify resulting changes to sampling and analysis plans for Aggregates D, E, and G; the memoranda were submitted to the Records Processing Facility.

The field team completed Phase I sampling at Aggregate D on June 16, 1994, except for a 200-ft borehole at PRS 35-003(r), which will be drilled later. The following activities were performed:

- completed 23 boreholes and 8 auger holes,
- collected samples at 6 surface locations,
- submitted a total of 199 samples to the Laboratory's Environmental Chemistry Group (CST-9) for analysis,
- collected 6 core samples for hydrogeologic testing of rock properties, and
- completed the monumenting of sample points.

The field team started Phase I sampling at Aggregate E (PRS 35-008) on June 23, 1994, and completed sampling on June 24, 1994. The following activities were performed:

- conducted health and safety, radiological, organic vapor analyzer, and electromagnetic surveys;
- completed 6 auger holes;
- submitted 24 samples to CST-9 for analysis; and
- completed the monumenting of sample points.

The field team started Phase I sampling at Aggregate G [PRSs 35-010(a–c)] on May 17, 1994, and completed sampling on May 24, 1994. The following activities were performed:

- collected samples at 5 water locations,
- collected samples at 6 sludge locations,
- submitted a total of 53 samples to CST-9 for analysis,
- collected 20 water samples from the OU 1129 waste management area,
- collected one core sample for the Sample Management Facility, and
- completed the monumenting of sample points.

Other activities at OU 1129 included the following: The addendum to the May 1992 RFI work plan for OU 1129 (LANL 1992, 0785) was submitted to the EPA; the addendum contains sampling and analysis plans for an additional 55 PRSs and proposes an additional 24 PRSs for no further action. Planning began for the geophysics surveys that are scheduled for TA-4 and TA-5. The TA-48 database was verified using the hard copy data reports from CST-9. Data analysis began for the TA-48 Phase I report.

### 2.17 ADS 1130—TAs-36, -68, -71 (Project Leader: Gene Gould)

The field team was delayed in getting into the field because of coordination problems. There was no field activity during this quarter. The team prepared for the readiness review and plans to enter the field in July.

### 2.18 ADS 1132—TA-39 (Project Leader: Gene Gould)

Field team members entered the field on May 16. Sixty-two surface and subsurface samples were collected, and five angle boreholes were drilled at PRS 39-001(a) (landfill). One monitoring well was drilled. Eighty percent of the data from the 1993 field season have been reviewed.

### 2.19 ADS 1135—TA-40 (Project Leader: David McInroy)

The NMED approved the Closure Plan amendment strategy for final sampling and clean closure. Field work and sampling are scheduled for August through September 1994.

## 2.20 ADS 1136—TA-43 (Project Leader: David Bradbury)

The final draft of the RFI work plan for OU 1136 to investigate and characterize three PRSs at TA-43 was submitted to the EPA for review on schedule May 23, 1994.

## 2.21 ADS 1140—TA-46 (Project Leader: Roy Michelotti)

Planning for the 1994 field work season is complete. The Waste Management Plan has been approved. The excavation permit approval has been received. The Health and Safety Plan is in review, and the Field Implementation Plan is ready for final issue. An OU-specific quality assurance plan is being developed in coordination with CST-9. OU 1140 personnel held the readiness review and performed a sampling dry run in preparation for spring sampling activity. The ER quality assurance audit team observed the dry run and made several valuable suggestions.

An NMED representative toured TA-46, evaluated all PRSs recommended for no further action as listed in the RFI work plan for OU 1140, and gave preliminary approval of those recommendations. The tour included all sample locations planned for calendar year 1994; five additional sample locations were selected, following the NMED recommendation.

OU personnel met with an NMED representative to discuss the NMED comments on the RFI work plan.

## 2.22 ADS 1144—TA-49 (Project Leader: Ines Triay)

Emphasis was placed on the following activities at TA-49 during the quarter. Demobilization of drilling equipment from the operations conducted last winter and early spring was completed at Area 2 in April. An ecological assessment of TA-49 by the Laboratory's Environmental Science Group (EES-15) is currently under way. OU 1144 also participated in EG&G's multispectral survey, which took place this past spring. The data are currently being assessed by the Geophysics Group (EES-3).

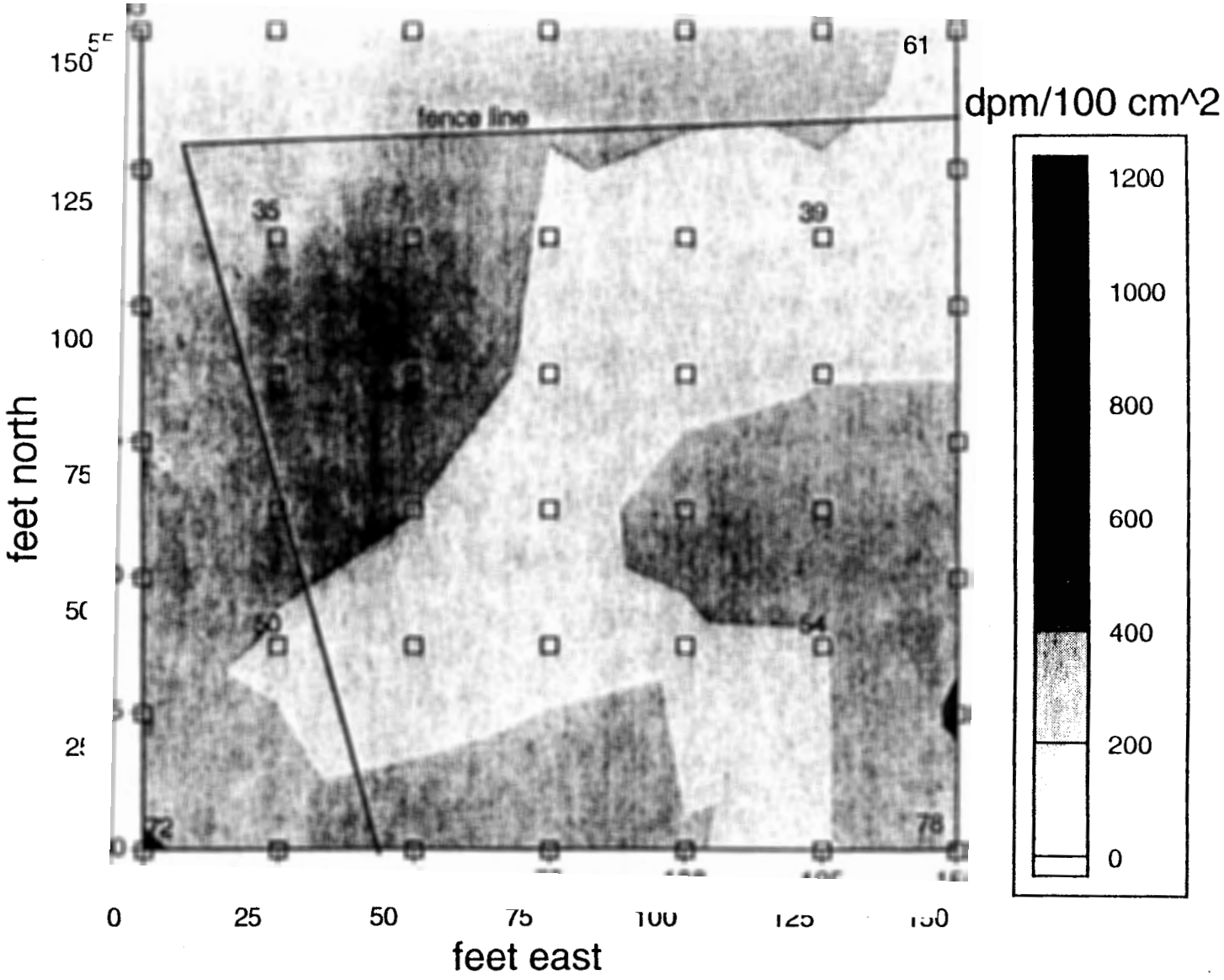
In May, land surveys of Areas 1 and 11 were completed. At Area 1, the proposed and past (1987) soil sampling locations were surveyed. In Area 11, the proposed soil sampling and borehole locations at the leach field, the interim waste storage area, and the small-scale shot area were surveyed.

A long-range alpha detector survey was completed in Areas 1 and 11. Area 1 was at or below natural background activity levels for the Laboratory mesa tops (see Figure 2-12). The northeast section of the area has sandy soil, which typically shows lower activity, but the rest of the site seemed to be normal mesa soil. Results of the survey indicated that contamination was not a concern, although unexpected small hot spots could exist between the grid points that were monitored. Area 11 showed consistently higher activity levels than Area 1 (see Figure 2-13). A grouping of readings was slightly higher than normal in the north-central part of the grid set up in the leach field. These readings are essentially two standard deviations above mean background level. On the basis of the history of the site, sampling will be done in that area to verify the findings. Remediation may not be required if the activity is just in the high-normal range. OU personnel suspect low-level contamination (twice background levels) in the southeastern corner of Area 11 and plan to conduct additional radiological surveys.

In June, preliminary plans were made with a subcontractor to conduct extensive radiological surveys at TA-49 before the end of FY94. The subcontractor intends to use a global positioning system survey, which can survey and evaluate the data in real-time.

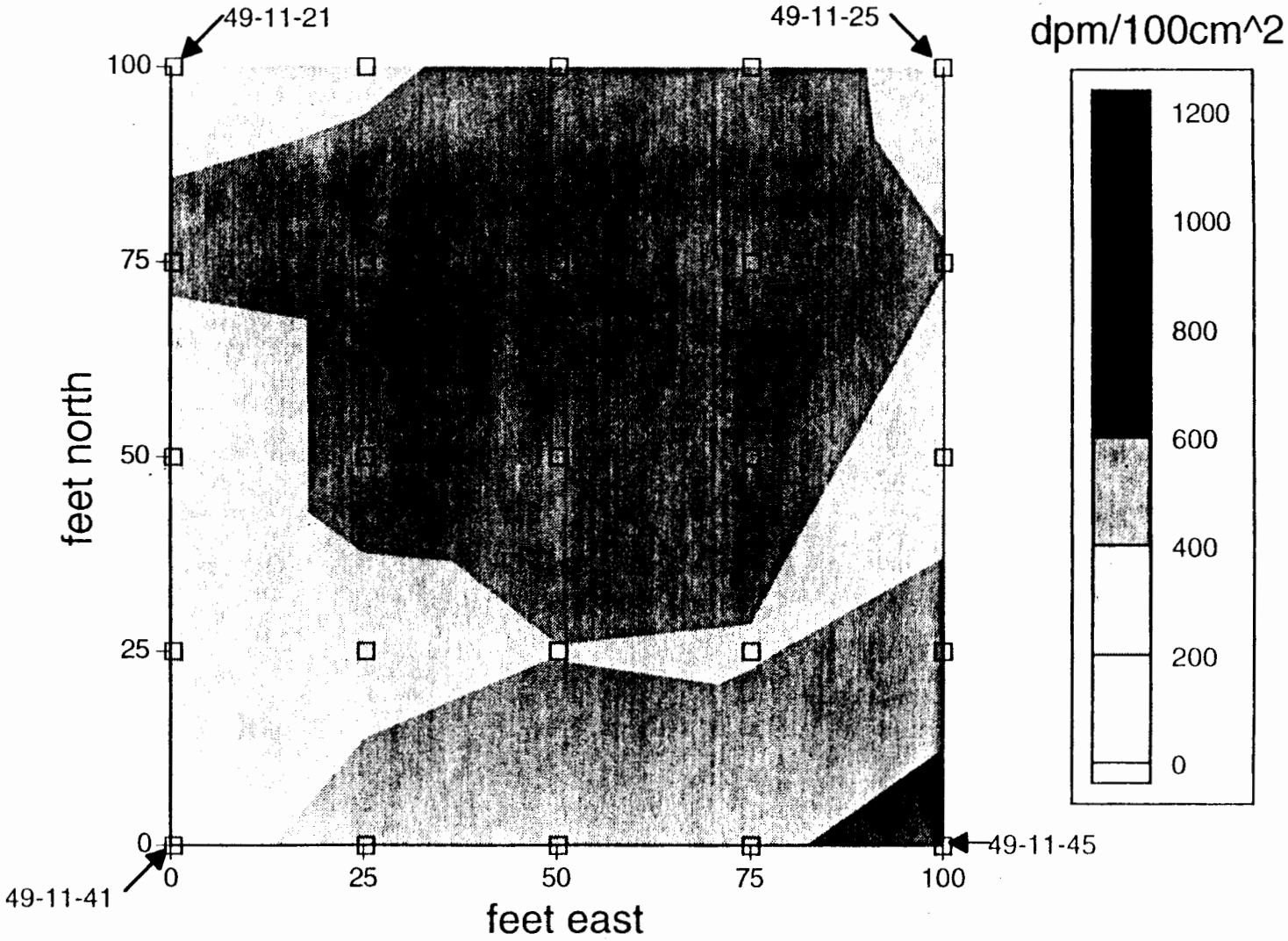
A summary of the analytical data residing in the Laboratory's Facility for Information Management, Analysis, and Display on June 30, 1994, from surface soil samples collected at Area 2 is presented in Table 2-12 (see the explanation of this table in Section 1.0). Background values for many trace metal analytes in the Los Alamos area were derived. The regional background values for arsenic and beryllium are 4.9 and 1.23 mg/kg, respectively. Baseline values were determined using ten samples collected in noncontaminated areas at TA-49 (see Figure 2-14). As shown in the table, the maximum concentration values of 3.5 mg/kg for arsenic and 0.86 mg/kg for beryllium in Area 2 are below the regional background values. These two metals exceeded SALs but were comparable to their background levels; therefore, it was concluded that those values exceeding SALs are caused by regional geologic chemical

characteristics rather than by contamination from the OU. Two radioactive analytes, radium-226 and thorium-232, also exceeded SALs at Area 2. The maximum concentration values for both of these isotopes exceeded the TA-49 background levels as well. Until Laboratory-wide background levels for these two isotopes are established, OU personnel cannot determine whether the TA-49 values indicate OU contamination or whether the results are caused by regional geologic characteristics. It should also be noted that radium-226 and thorium-232 were not on the TA-49 list of contaminants of concern and that these values may be anomalies rather than contaminant indicators.




dpm = disintegrations per minute

**Figure 2-12. TA-49 Area 1, OU 1144.**




dpm = disnitegrations per minute

**Figure 2-13. TA-49 Area 11, OU 1144.**

# TABLE 2-12

## SUMMARY OF ANALYTICAL RESULTS FOR WATER SAMPLES OF DP SPRINGS, OU 1106

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | Baseline Sample Value | SAL | Units | Number Of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL | Analyte Disposition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Americium-241 | 40 | 1 | 2.995 | 2.995 | <2.50 | 22 | pCi/g | 39 | 1.24 | 4.45 | | 40 | | No Concern |
| 2 | Antimony | 42 | | | | <11.2 | 32 | mg/kg | 42 | 11.2 | 11.2 | | 42 | | No Concern |
| 3 | Arsenic | 42 | 40 | 0.81 | 3.5 | 2.81 | 0.4 | mg/kg | 2 | 0.6 | 0.6 | 40 | | 2 | Exceeds SAL |
| 4 | Barium | 42 | 42 | 45.4 | 171 | 133 | 5,600 | mg/kg | | | | | 42 | | No Concern |
| 5 | Beryllium | 42 | 42 | 0.28 | 0.86 | 0.693 | 0.16 | mg/kg | | | | 42 | | | Exceeds SAL |
| 6 | Cadmium | 42 | 21 | 0.81 | 1.3 | 1.05 | 80 | mg/kg | 21 | 0.8 | 0.8 | | 42 | | No Concern |
| 7 | Cesium-137 | 40 | 19 | 0.119 | 1.797 | 0.807 | 4 | pCi/g | 21 | 0.324 | 0.756 | | 40 | | No Concern |
| 8 | Chromium | 42 | 42 | 2.6 | 7.6 | 7.85 | 400 | mg/kg | | | | | 42 | | No Concern |
| 9 | Lead | 42 | 42 | 3.6 | 21.5 | 14.2 | 500 | mg/kg | | | | | 42 | | No Concern |
| 10 | Mercury | 42 | 7 | 0.02 | 0.03 | <.02 | 24 | mg/kg | 35 | 0.02 | 0.02 | | 42 | | No Concern |
| 11 | Nickel | 42 | 41 | 3.1 | 8.7 | 7.7 | 1,600 | mg/kg | 1 | 2.8 | 2.8 | | 42 | | No Concern |
| 12 | Plutonium-238 | 43 | 43 | 0.002 | 0.249 | 0.005 | 27 | pCi/g | | | | | 43 | | No Concern |
| 13 | Plutonium-239 | 43 | 43 | 0.002 | 13.723 | 0.018 | 24 | pCi/g | | | | | 43 | | No Concern |
| 14 | Potassium-40 | 40 | 40 | 2.963 | 14.18 | 23.4 | | pCi/g | | | | | | | Further Eval |
| 15 | Radium-226 | 40 | 30 | 1.056 | 3.463 | <2.13 | 0.73 | pCi/g | 10 | 1.27 | 1.94 | 30 | | 10 | Exceeds SAL |
| 16 | Selenium | 42 | | | | <0.6 | 400 | mg/kg | 42 | 0.6 | 0.6 | | 42 | | No Concern |
| 17 | Silver | 42 | | | | <1.4 | 400 | mg/kg | 42 | 1.4 | 1.4 | | 42 | | No Concern |
| 18 | Thallium | 42 | | | | <1 | 6.4 | mg/kg | 42 | 1 | 1 | | 42 | | No Concern |
| 19 | Thorium-232 | 40 | 27 | 1.557 | 4.438 | <2.81 | 0.88 | pCi/g | 13 | 1.99 | 3.81 | 27 | | 13 | Exceeds SAL |
| 20 | Uranium | 40 | 40 | 1.4 | 5.3 | 4.716 | 174.6 | mg/kg | | | | | 40 | | No Concern |
| | **Total Number of Values** | **830** | **520** | | | | | | **310** | | | **139** | **626** | **25** | |

**Notes:**

1. "Baseline" values are an average from 10 background samples (see Figure 2-14 for sampling locations).
2. Analyte Disposition categories:
   "Exceeds SAL" = one or more values exceeded the SAL for that analyte.
   "Further Evaluation" = one or more analyte values was greater than the LOD, and there is no current SAL for comparison.
   "No Concern" = analyte values are all less than the SAL.
3. The SAL for uranium was calculated assuming natural abundance (U-234=0.0057%, U-235=0.7204%, U-238=99.2739%)

## 2.23 ADS 1147—TA-50 (Project Leader: Cheryl K. Rofer)

During the 1993 field season, soil samples were collected from Aggregate 5, possible fallout from operations at TA-50 [PRSs 50-006(c), 50-007, and 50-008]; Aggregate 6, Ten Site Canyon, [PRS 50-006(a)] and Mortandad Canyon, [PRS 50-006(d)]; and MDA C, (PRS 50-009); the samples were analyzed as specified in the RFI work plan for OU 1147 (LANL 1992, 0787). Most chemical analysis results for the soil samples have been received and are being reviewed. Sample locations were presented in the "ER Quarterly Technical Report, October–December, Fiscal Year 1994." Available results are summarized in Tables 2-13 through 2-16 in this report (see Section 1.0 for an explanation of these summary tables).

Arsenic, beryllium, thorium-232, and radium-226 were detected above SALs in most of the analyses; however, these constituents are naturally present in Los Alamos soils at concentrations near the SALs determined for these samples.

The available results from Aggregate 5 are summarized in Table 2-13. Other constituents detected above SALs are polycyclic aromatic hydrocarbons, PCBs, cadmium, chromium, and silver; a risk analysis is being carried out for these constituents. The analyses also resulted in 218 tentatively identified constituents, most of which were saturated hydrocarbons and other organic compounds.

The available results from Ten Site Canyon are summarized in Table 2-14. Other constituents detected above SALs are polycyclic aromatic hydrocarbons, PCBs, cobalt-60, and plutonium-238; a risk analysis is being carried out for these constituents. The analyses also resulted in 580 tentatively identified constituents, most of which were saturated hydrocarbons and other organic compounds.

The available results from Mortandad Canyon are summarized in Table 2-15. Other constituents detected above SALs are PCBs, cesium-137, cobalt-60, plutonium-239, and strontium-90. These results will be provided to the Canyons Operable Unit for further characterization and remediation decisions. The analyses also resulted in 221 tentatively identified constituents, most of which were saturated hydrocarbons and other organic compounds.

The available results from MDA C are summarized in Table 2-16. The only other constituents that were detected above SALs are PCBs. It appears that no significant migration of the contents of MDA C to the surface soils has occurred since a new cover of crushed tuff and soil was installed in 1984. The analyses also resulted in 290 tentatively identified constituents, most of which were saturated hydrocarbons and other organic compounds.

A phase report on these results is being prepared.

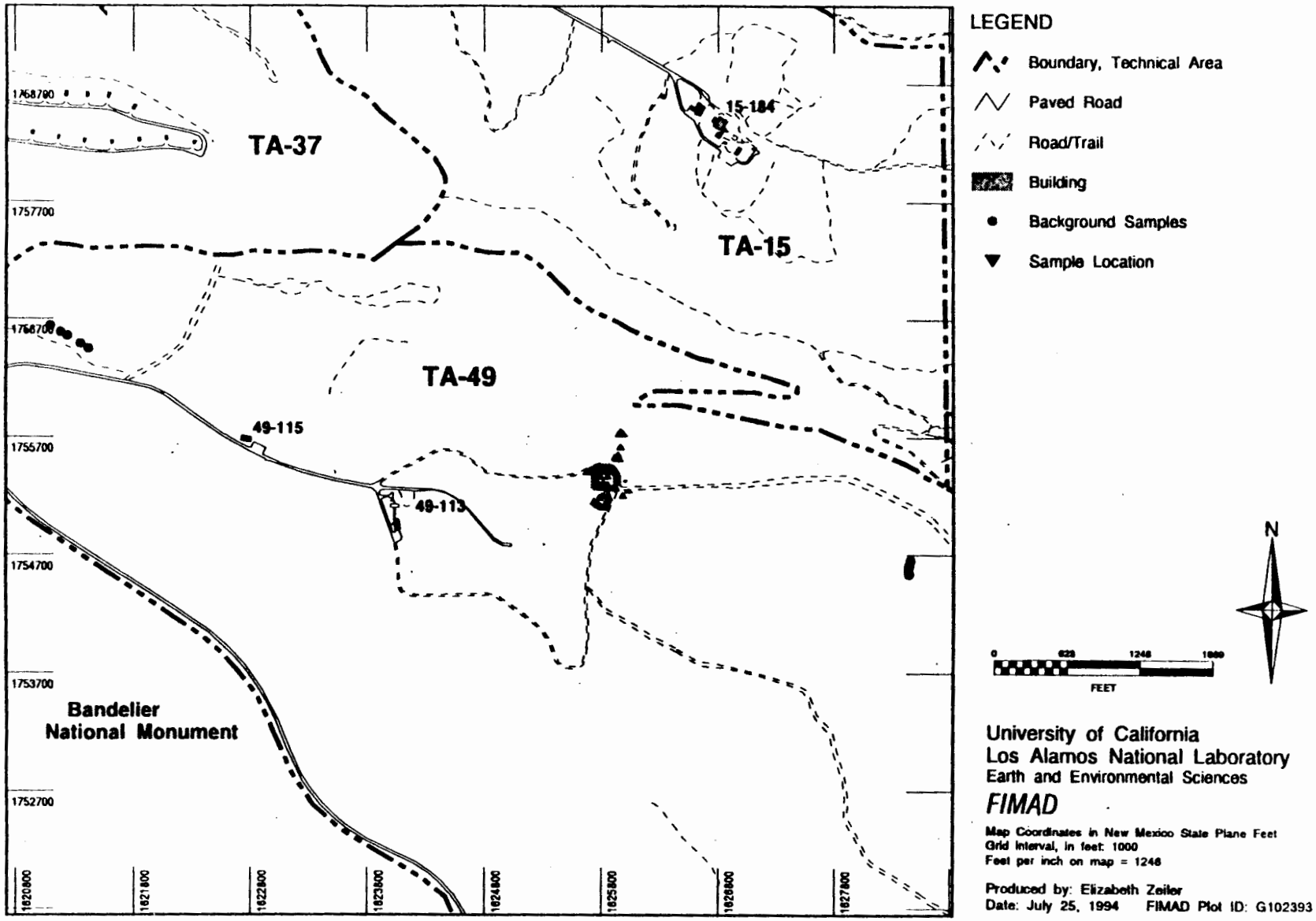



Figure 2-14. Surface soil sampling locations for Area 2, OU 1144.

## TABLE 2-13

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT AGGREGATE 5, AREA AROUND BUILDINGS

| | Analyte | Number of Values Per Analyte | Number of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 52 | | | | 4,800 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 2 | Acenaphthylene | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 3 | Aniline | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 4 | Anthracene | 52 | 1 | 0.41 | 0.41 | 24,000 | mg/kg | 51 | 0.33 | 0.39 | | 52 | |
| 5 | Antimony | 8 | 8 | 0.06 | 0.14 | 32 | mg/kg | | | | | 8 | |
| 6 | Aroclor 1242 | 52 | | | | | mg/kg | 52 | 0.05 | 1 | | | |
| 7 | Aroclor 1254 | 52 | 1 | 1 | 1 | | mg/kg | 51 | 0.05 | 1 | | | |
| 8 | Aroclor 1260 | 52 | 9 | 0.07 | 0.52 | | mg/kg | 43 | 0.05 | 1 | | | |
| 9 | Aroclor [Mixed-] | 52 | 10 | 0.07 | 1 | 0.09 | mg/kg | 42 | 0.05 | 1 | 9 | 36 | 7 |
| 10 | Arsenic | 8 | 8 | 2 | 3.6 | 0.4 | mg/kg | | | | 8 | | |
| 11 | Azobenzene | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 12 | Barium | 8 | 7 | 0.54 | 800 | 5,600 | mg/kg | 1 | 0.1 | 0.1 | | 8 | |
| 13 | Benzidine [m-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.94 | | | |
| 14 | Benzo[a]anthracene | 52 | 7 | 0.45 | 1.8 | 0.64 | mg/kg | 45 | 0.33 | 0.39 | 5 | 47 | |
| 15 | Benzo[a]pyrene | 52 | 8 | 0.36 | 2.4 | 0.1 | mg/kg | 44 | 0.33 | 0.39 | 8 | | 44 |
| 16 | Benzo[b]fluoranthene | 52 | 7 | 0.5 | 2.2 | 0.7 | mg/kg | 45 | 0.33 | 0.39 | 4 | 48 | |
| 17 | Benzo[g,h,i]perylene | 52 | 6 | 0.5 | 1.4 | 44 | mg/kg | 46 | 0.33 | 0.39 | | 52 | |
| 18 | Benzo[k]fluoranthene | 52 | 7 | 0.42 | 1.4 | 1.5 | mg/kg | 45 | 0.33 | 0.39 | | 52 | |
| 19 | Benzoic acid | 52 | | | | 320,000 | mg/kg | 52 | 0.33 | 0.94 | | 52 | |
| 20 | Benzyl alcohol | 52 | | | | | mg/kg | 52 | 0.33 | 0.94 | | | |
| 21 | Beryllium | 8 | 7 | 0.41 | 150 | 0.16 | mg/kg | 1 | 0.08 | 0.08 | 7 | 1 | |
| 22 | Bis(2-chloroethoxy)methane | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 23 | Bis(2-chloroethyl)ether | 52 | | | | 0.12 | mg/kg | 52 | 0.33 | 0.39 | | | 52 |
| 24 | Bis(2-chloroisopropyl)ether | 52 | | | | 100 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 25 | Bis(2-ethylhexyl)phthalate | 52 | 2 | 0.69 | 0.7 | 50 | mg/kg | 50 | 0.33 | 0.39 | | 52 | |
| 26 | Bromophenylphenyl ether [4-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 27 | Butyl benzyl phthalate | 52 | | | | 16,000 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 28 | Cadmium | 8 | 4 | 0.5 | 170 | 80 | mg/kg | 4 | 0.4 | 0.4 | 2 | 6 | |
| 29 | Cesium-137 | 32 | 2 | 0.979 | 2.05 | 4 | pCi/g | 30 | 0.256 | 0.752 | | 32 | |
| 30 | Chloro-3-methylphenol [4-] | 52 | | | | 16,000 | mg/kg | 52 | 0.33 | 0.94 | | 52 | |
| 31 | Chloroaniline [4-] | 52 | | | | 320 | mg/kg | 52 | 0.33 | 0.94 | | 52 | |
| 32 | Chloronaphthalene [2-] | 52 | | | | 6,400 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 33 | Chlorophenol [o-] | 52 | | | | 400 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 34 | Chlorophenylphenyl ether [4-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 35 | Chromium | 8 | 8 | 1.1 | 810 | 400 | mg/kg | | | | 1 | 7 | |
| 36 | Chrysene | 52 | 8 | 0.37 | 2.9 | 22 | mg/kg | 44 | 0.33 | 0.39 | | 52 | |

## TABLE 2-13

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT AGGREGATE 5, AREA AROUND BUILDINGS

| | Analyte | Number of Values Per Analyte | Number of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | Cobalt-60 | 32 | | | | 0.9 | pCi/g | 32 | 0.258 | 0.773 | | 32 | |
| 38 | Di-n-butyl phthalate | 52 | 1 | 1.8 | 1.8 | 8,000 | mg/kg | 51 | 0.33 | 0.39 | | 52 | |
| 39 | Di-n-octyl phthalate | 52 | | | | 1,600 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 40 | Dibenzo[a,h]anthracene | 52 | 2 | 0.55 | 0.69 | 0.086 | mg/kg | 50 | 0.33 | 0.39 | 2 | | 50 |
| 41 | Dibenzofuran | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 42 | Dichlorobenzene (1,2) [o-] | 52 | | | | 1,600 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 43 | Dichlorobenzene (1,3) [m-] | 52 | | | | 7,200 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 44 | Dichlorobenzene (1,4) [p-] | 52 | | | | 290 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 45 | Dichlorobenzidine [3,3'-] | 52 | | | | 1.6 | mg/kg | 52 | 0.33 | 0.94 | | 52 | |
| 46 | Dichlorophenol [2,4-] | 52 | | | | 240 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 47 | Diethyl phthalate | 52 | | | | 64,000 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 48 | Dimethyl phthalate | 52 | | | | 800,000 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 49 | Dimethylphenol [2,4-] | 52 | | | | 1,600 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 50 | Dinitrophenol [2,4-] | 52 | | | | 160 | mg/kg | 52 | 0.33 | 0.94 | | 52 | |
| 51 | Dinitrotoluene [2,4-] | 52 | | | | 1 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 52 | Dinitrotoluene [2,6-] | 52 | | | | 1 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 53 | Fluoranthene | 52 | 10 | 0.7 | 4.1 | 3,200 | mg/kg | 42 | 0.33 | 0.39 | | 52 | |
| 54 | Fluorene | 52 | | | | 3,200 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 55 | Hexachlorobenzene | 52 | | | | 0.44 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 56 | Hexachlorobutadiene | 52 | | | | 90 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 57 | Hexachlorocyclopentadiene | 52 | | | | 560 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 58 | Hexachloroethane | 52 | | | | 80 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 59 | Indeno[1,2,3-cd]pyrene | 52 | 6 | 0.54 | 1.6 | 0.41 | mg/kg | 46 | 0.33 | 0.39 | 6 | 46 | |
| 60 | Isophorone | 52 | | | | 7,400 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 61 | Lead | 8 | 8 | 6 | 35 | 500 | mg/kg | | | | | 8 | |
| 62 | Mercury | 24 | | | | 24 | mg/kg | 24 | 0.2 | 0.2 | | 24 | |
| 63 | Methyl-4,6-dinitrophenol [2-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.94 | | | |
| 64 | Methylnaphthalene [2-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 65 | Methylphenol [2-] | 52 | | | | 4,000 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 66 | Methylphenol [4-] | 52 | | | | 400 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 67 | Naphthalene | 52 | | | | 3,200 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 68 | Nickel | 8 | 3 | 9 | 870 | 1,600 | mg/kg | 5 | 2 | 2 | | 8 | |
| 69 | Nitroaniline [2-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.94 | | | |
| 70 | Nitroaniline [3-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.94 | | | |
| 71 | Nitroaniline [4-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.94 | | | |
| 72 | Nitrobenzene | 52 | | | | 5.3 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |

## TABLE 2-13

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT AGGREGATE 5, AREA AROUND BUILDINGS

| | Analyte | Number of Values Per Analyte | Number of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73 | Nitrophenol [2-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 74 | Nitrophenol [4-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.94 | | | |
| 75 | Nitrosodi-n-propylamine [N-] | 52 | | | | 0.1 | mg/kg | 52 | 0.33 | 0.39 | | | 52 |
| 76 | Nitrosodimethylamine [N-] | 52 | | | | | mg/kg | 52 | 0.33 | 0.39 | | | |
| 77 | Nitrosodiphenylamine [N-] | 52 | | | | 140 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 78 | Pentachlorophenol | 52 | | | | 5.8 | mg/kg | 52 | 0.33 | 0.94 | | 52 | |
| 79 | Phenanthrene | 52 | 10 | 0.38 | 2.1 | | mg/kg | 42 | 0.33 | 0.39 | | | |
| 80 | Phenol | 52 | | | | 48,000 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 81 | Plutonium-238 | 32 | 32 | 0.002 | 0.127 | 27 | pCi/g | | | | | 32 | |
| 82 | Plutonium-239 | 32 | 32 | 0.001 | 1.606 | 24 | pCi/g | | | | | 32 | |
| 83 | Potassium-40 | 32 | 26 | 2.69 | 29.67 | | pCi/g | 6 | 19.7 | 27.9 | | | |
| 84 | Pyrene | 52 | 10 | 0.74 | 4.8 | 2,400 | mg/kg | 42 | 0.33 | 0.39 | | 52 | |
| 85 | Radium-226 | 33 | 11 | 1.34 | 5.22 | 0.73 | pCi/g | 22 | 1.73 | 3.08 | 11 | | 22 |
| 86 | Selenium | 8 | 1 | 0.2 | 0.2 | 400 | mg/kg | 7 | 0.2 | 0.2 | | 8 | |
| 87 | Silver | 8 | 2 | 17 | 410 | 400 | mg/kg | 6 | 1 | 1 | 1 | 7 | |
| 88 | Strontium-90 | 33 | | | | 8.9 | pCi/g | 33 | 1 | 1 | | 33 | |
| 89 | Thallium | 8 | 8 | 0.09 | 0.18 | 6.4 | mg/kg | | | | | 8 | |
| 90 | Thorium-232 | 31 | 8 | 2.13 | 4.43 | 0.88 | pCi/g | 23 | 2.58 | 4.61 | 8 | | 23 |
| 91 | Trichlorobenzene [1,2,4-] | 52 | | | | 160 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 92 | Trichlorophenol [2,4,5-] | 52 | | | | 8,000 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 93 | Trichlorophenol [2,4,6-] | 52 | | | | 64 | mg/kg | 52 | 0.33 | 0.39 | | 52 | |
| 94 | Tritium | 30 | | | | 15,000,000 | pCi/g | 30 | 2 | 2 | | 30 | |
| 95 | Uranium-234 | 31 | 31 | 0.706 | 1.531 | 86 | pCi/g | | | | | 31 | |
| 96 | Uranium-235 | 32 | 32 | 0.013 | 0.146 | 18 | pCi/g | | | | | 32 | |
| 97 | Uranium-238 | 31 | 31 | 0.744 | 1.634 | 59 | pCi/g | | | | | 31 | |
| | **Total Number of Values** | **4,289** | **374** | | | | | **3,915** | | | **72** | **2,843** | **250** |

## TABLE 2-14

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT PRS 50-006(a), TEN SITE CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 134 | 1 | 0.51 | 0.51 | 4,800 | mg/kg | 133 | 0.33 | 12 | | 134 | |
| 2 | Acenaphthylene | 134 | | | | | mg/kg | 134 | 0.33 | 12 | | | |
| 3 | Acetone | 134 | 22 | 0.011 | 0.082 | 8,000 | mg/kg | 112 | 0.01 | 0.08 | | 134 | |
| 4 | Americium-241 | 72 | 72 | 0.006 | 4.172 | 22 | pCi/g | | | | | 72 | |
| 5 | Aniline | 95 | | | | | mg/kg | 95 | 0.33 | 12 | | | |
| 6 | Anthracene | 134 | 1 | 0.9 | 0.9 | 24,000 | mg/kg | 133 | 0.33 | 12 | | 134 | |
| 7 | Antimony | 144 | 6 | 0.08 | 0.53 | 32 | mg/kg | 138 | 0.04 | 11.2 | | 144 | |
| 8 | Aroclor 1016 | 35 | | | | | mg/kg | 35 | 0.03 | 0.074 | | | |
| 9 | Aroclor 1221 | 35 | | | | | mg/kg | 35 | 0.03 | 0.136 | | | |
| 10 | Aroclor 1232 | 35 | | | | | mg/kg | 35 | 0.03 | 0.074 | | | |
| 11 | Aroclor 1242 | 95 | | | | | mg/kg | 95 | 0.03 | 1 | | | |
| 12 | Aroclor 1248 | 35 | | | | | mg/kg | 35 | 0.03 | 0.074 | | | |
| 13 | Aroclor 1254 | 95 | 1 | 6 | 6 | | mg/kg | 94 | 0.03 | 1 | | | |
| 14 | Aroclor 1260 | 95 | 18 | 0.054 | 1.52 | | mg/kg | 77 | 0.03 | 1 | | | |
| 15 | Aroclor [Mixed-] | 95 | 19 | 0.054 | 6 | 0.09 | mg/kg | 76 | 0.03 | 1 | 14 | 80 | 1 |
| 16 | Arsenic | 144 | 144 | 0.7 | 4.7 | 0.4 | mg/kg | | | | 144 | | |
| 17 | Azobenzene | 95 | | | | | mg/kg | 95 | 0.33 | 12 | | | |
| 18 | Barium | 143 | 143 | 17 | 230 | 5,600 | mg/kg | | | | | 143 | |
| 19 | Benzene | 134 | | | | 0.67 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 20 | Benzidine [m-] | 95 | | | | | mg/kg | 95 | 0.33 | 29 | | | |
| 21 | Benzo[a]anthracene | 134 | 8 | 0.37 | 1.1 | 0.64 | mg/kg | 126 | 0.33 | 12 | 3 | 127 | 4 |
| 22 | Benzo[a]pyrene | 134 | 10 | 0.37 | 1.2 | 0.1 | mg/kg | 124 | 0.33 | 12 | 10 | | 124 |
| 23 | Benzo[b]fluoranthene | 134 | 9 | 0.38 | 1.5 | 0.7 | mg/kg | 125 | 0.33 | 12 | 3 | 127 | 4 |
| 24 | Benzo[g,h,i]perylene | 134 | 4 | 0.37 | 0.66 | 44 | mg/kg | 130 | 0.33 | 12 | | 134 | |
| 25 | Benzo[k]fluoranthene | 134 | 7 | 0.36 | 1.13 | 1.5 | mg/kg | 127 | 0.33 | 12 | | 131 | 3 |
| 26 | Benzoic acid | 134 | | | | 320,000 | mg/kg | 134 | 0.33 | 29 | | 134 | |
| 27 | Benzyl alcohol | 134 | | | | | mg/kg | 134 | 0.33 | 29 | | | |
| 28 | Beryllium | 143 | 137 | 0.09 | 2.8 | 0.16 | mg/kg | 6 | 0.2 | 0.2 | 136 | 1 | 6 |
| 29 | Bis(2-chloroethoxy)methane | 134 | | | | | mg/kg | 134 | 0.33 | 12 | | | |
| 30 | Bis(2-chloroethyl)ether | 134 | | | | 0.12 | mg/kg | 134 | 0.33 | 12 | | | 134 |
| 31 | Bis(2-chloroisopropyl)ether | 134 | | | | 100 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 32 | Bis(2-ethylhexyl)phthalate | 134 | 4 | 0.47 | 1.1 | 50 | mg/kg | 130 | 0.33 | 12 | | 134 | |
| 33 | Bromobenzene | 109 | | | | | mg/kg | 109 | 0.01 | 0.02 | | | |
| 34 | Bromochloromethane | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 35 | Bromodichloromethane | 134 | | | | 11 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 36 | Bromoform | 109 | | | | 89 | mg/kg | 109 | 0.01 | 0.02 | | 109 | |

## TABLE 2-14

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT PRS 50-006(a), TEN SITE CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | Bromomethane | 134 | | | | 0.43 | mg/kg | 134 | 0.01 | 0.04 | | 134 | |
| 38 | Bromophenylphenyl ether [4-] | 134 | | | | | mg/kg | 134 | 0.33 | 12 | | | |
| 39 | Butanone [2-] | 134 | | | | 4,000 | mg/kg | 134 | 0.01 | 0.08 | | 134 | |
| 40 | Butyl benzyl phthalate | 134 | 1 | 0.51 | 0.51 | 16,000 | mg/kg | 133 | 0.33 | 12 | | 134 | |
| 41 | Butylbenzene [n-] | 110 | | | | | mg/kg | 110 | 0.01 | 0.02 | | | |
| 42 | Butylbenzene [sec-] | 110 | | | | | mg/kg | 110 | 0.01 | 0.02 | | | |
| 43 | Butylbenzene [tert-] | 110 | 1 | 0.009 | 0.009 | | mg/kg | 109 | 0.01 | 0.02 | | | |
| 44 | Cadmium | 143 | 32 | 0.4 | 1.7 | 80 | mg/kg | 111 | 0.4 | 1.2 | | 143 | |
| 45 | Carbon disulfide | 134 | | | | 7.4 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 46 | Carbon tetrachloride | 134 | | | | 0.21 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 47 | Cesium-137 | 166 | 57 | 0.261 | 3.585 | 4 | pCi/g | 109 | 0.25 | 0.803 | | 166 | |
| 48 | Chloro-3-methylphenol [4-] | 134 | | | | 16,000 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 49 | Chloroaniline [4-] | 134 | | | | 320 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 50 | Chlorobenzene | 134 | | | | 67 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 51 | Chlorodibromomethane | 134 | | | | 83 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 52 | Chloroethane | 134 | | | | 3,300 | mg/kg | 134 | 0.01 | 0.04 | | 134 | |
| 53 | Chloroform | 134 | | | | 0.21 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 54 | Chloromethane | 134 | | | | 6.4 | mg/kg | 134 | 0.01 | 0.04 | | 134 | |
| 55 | Chloronaphthalene [2-] | 134 | | | | 6,400 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 56 | Chlorophenol [o-] | 134 | | | | 400 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 57 | Chlorophenylphenyl ether [4-] | 134 | | | | | mg/kg | 134 | 0.33 | 12 | | | |
| 58 | Chlorotoluene [o-] | 110 | | | | | mg/kg | 110 | 0.01 | 0.02 | | | |
| 59 | Chlorotoluene [p-] | 110 | | | | | mg/kg | 110 | 0.01 | 0.02 | | | |
| 60 | Chromium | 143 | 143 | 1.1 | 20 | 400 | mg/kg | | | | | 143 | |
| 61 | Chrysene | 134 | 10 | 0.4 | 1.4 | 22 | mg/kg | 124 | 0.33 | 12 | | 134 | |
| 62 | Cobalt-60 | 166 | 10 | 0.262 | 1.299 | 0.9 | pCi/g | 156 | 0.1 | 0.743 | 4 | 162 | |
| 63 | Di-n-butyl phthalate | 134 | 29 | 0.4 | 3 | 8,000 | mg/kg | 105 | 0.33 | 12 | | 134 | |
| 64 | Di-n-octyl phthalate | 134 | | | | 1,600 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 65 | Dibenzo[a,h]anthracene | 134 | | | | 0.086 | mg/kg | 134 | 0.33 | 12 | | | 134 |
| 66 | Dibenzofuran | 134 | | | | | mg/kg | 134 | 0.33 | 12 | | | |
| 67 | Dibromo-3-chloropropane [1,2-] | 109 | | | | | mg/kg | 109 | 0.01 | 0.04 | | | |
| 68 | Dibromoethane [1,2-] | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 69 | Dibromomethane | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 70 | Dichlorobenzene (1,2) [o-] | 244 | | | | 1,600 | mg/kg | 244 | 0.01 | 12 | | 244 | |
| 71 | Dichlorobenzene (1,3) [m-] | 244 | | | | 7,200 | mg/kg | 244 | 0.01 | 12 | | 244 | |
| 72 | Dichlorobenzene (1,4) [p-] | 244 | | | | 290 | mg/kg | 244 | 0.01 | 12 | | 244 | |

## TABLE 2-14

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT PRS 50-006(a), TEN SITE CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number Of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73 | Dichlorobenzidine [3,3'-] | 134 | | | | 1.6 | mg/kg | 134 | 0.33 | 12 | | 130 | 4 |
| 74 | Dichlorodifluoromethane | 134 | | | | | mg/kg | 134 | 0.01 | 0.04 | | | |
| 75 | Dichloroethane [1,1-] | 134 | | | | 410 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 76 | Dichloroethane [1,2-] | 134 | | | | 0.2 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 77 | Dichloroethene [1,1-] | 134 | | | | 0.4 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 78 | Dichloroethene [trans-1,2-] | 134 | | | | 1,600 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 79 | Dichloroethylene [cis-1,2-] | 134 | | | | 800 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 80 | Dichlorophenol [2,4-] | 134 | | | | 240 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 81 | Dichloropropane [1,2-] | 134 | | | | 6.5 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 82 | Dichloropropane [1,3-] | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 83 | Dichloropropane [2,2-] | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 84 | Dichloropropene [1,1-] | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 85 | Dichloropropene [cis-1,3-] | 134 | | | | 0.17 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 86 | Dichloropropene [trans-1,3-] | 134 | | | | 0.17 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 87 | Diethyl phthalate | 134 | | | | 64,000 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 88 | Dimethyl phthalate | 134 | | | | 800,000 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 89 | Dimethylphenol [2,4-] | 134 | | | | 1,600 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 90 | Dinitrophenol [2,4-] | 134 | | | | 160 | mg/kg | 134 | 0.33 | 29 | | 134 | |
| 91 | Dinitrotoluene [2,4-] | 134 | | | | 1 | mg/kg | 134 | 0.33 | 12 | | 130 | 4 |
| 92 | Dinitrotoluene [2,6-] | 134 | | | | 1 | mg/kg | 134 | 0.33 | 12 | | 130 | 4 |
| 93 | Ethylbenzene | 134 | | | | 3,100 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 94 | Fluoranthene | 134 | 15 | 0.37 | 2.4 | 3,200 | mg/kg | 119 | 0.33 | 12 | | 134 | |
| 95 | Fluorene | 134 | 1 | 0.47 | 0.47 | 3,200 | mg/kg | 133 | 0.33 | 12 | | 134 | |
| 96 | Hexachlorobenzene | 134 | | | | 0.44 | mg/kg | 134 | 0.33 | 12 | | 127 | 7 |
| 97 | Hexachlorobutadiene | 134 | | | | 90 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 98 | Hexachlorocyclopentadiene | 134 | | | | 560 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 99 | Hexachloroethane | 134 | | | | 80 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 100 | Hexanone [2-] | 134 | 1 | 0.014 | 0.014 | | mg/kg | 133 | 0.01 | 0.08 | | | |
| 101 | Indeno[1,2,3-cd]pyrene | 134 | 3 | 0.41 | 0.66 | 0.41 | mg/kg | 131 | 0.33 | 12 | 3 | 106 | 25 |
| 102 | Isophorone | 134 | | | | 7,400 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 103 | Isopropylbenzene | 109 | | | | | mg/kg | 109 | 0.01 | 0.02 | | | |
| 104 | Isopropyltoluene [4-] | 110 | 1 | 0.035 | 0.035 | | mg/kg | 109 | 0.01 | 0.02 | | | |
| 105 | Lead | 142 | 141 | 3.9 | 44 | 500 | mg/kg | 1 | 4 | 4 | | 142 | |
| 106 | Mercury | 269 | 22 | 0.02 | 2 | 24 | mg/kg | 247 | 0.0001 | 0.1 | | 269 | |
| 107 | Methyl iodide | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 108 | Methyl-2-pentanone [4-] | 134 | | | | 510 | mg/kg | 134 | 0.01 | 0.08 | | 134 | |

## TABLE 2-14

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT PRS 50-006(a), TEN SITE CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 109 | Methyl-4,6-dinitrophenol [2-] | 134 | | | | | mg/kg | 134 | 0.33 | 29 | | | |
| 110 | Methylene chloride | 134 | 5 | 0.0068 | 0.008 | 5.6 | mg/kg | 129 | 0.01 | 0.02 | | 134 | |
| 111 | Methylnaphthalene [2-] | 133 | | | | | mg/kg | 133 | 0.33 | 12 | | | |
| 112 | Methylphenol [2-] | 134 | | | | 4,000 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 113 | Methylphenol [4-] | 134 | | | | 400 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 114 | Naphthalene | 134 | | | | 3,200 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 115 | Nickel | 143 | 118 | 2.6 | 58.9 | 1,600 | mg/kg | 25 | 2 | 2.8 | | 143 | |
| 116 | Nitroaniline [2-] | 134 | | | | | mg/kg | 134 | 0.33 | 29 | | | |
| 117 | Nitroaniline [3-] | 134 | | | | | mg/kg | 134 | 0.33 | 29 | | | |
| 118 | Nitroaniline [4-] | 134 | | | | | mg/kg | 134 | 0.33 | 29 | | | |
| 119 | Nitrobenzene | 134 | | | | 5.3 | mg/kg | 134 | 0.33 | 12 | | 132 | 2 |
| 120 | Nitrophenol [2-] | 134 | | | | | mg/kg | 134 | 0.33 | 12 | | | |
| 121 | Nitrophenol [4-] | 134 | | | | | mg/kg | 134 | 0.33 | 29 | | | |
| 122 | Nitrosodi-n-propylamine [N-] | 134 | | | | 0.1 | mg/kg | 134 | 0.33 | 12 | | | 134 |
| 123 | Nitrosodimethylamine [N-] | 95 | | | | | mg/kg | 95 | 0.33 | 12 | | | |
| 124 | Nitrosodiphenylamine [N-] | 134 | | | | 140 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 125 | Pentachlorophenol | 134 | | | | 5.8 | mg/kg | 134 | 0.33 | 29 | | 132 | 2 |
| 126 | Phenanthrene | 134 | 8 | 0.39 | 3.1 | | mg/kg | 126 | 0.33 | 12 | | | |
| 127 | Phenol | 134 | | | | 48,000 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 128 | Plutonium-238 | 171 | 171 | 0.002 | 67.82 | 27 | pCi/g | | | | 6 | 165 | |
| 129 | Plutonium-239 | 171 | 171 | 0.002 | 19.51 | 24 | pCi/g | | | | | 171 | |
| 130 | Potassium-40 | 166 | 131 | 13.746 | 52.51 | | pCi/g | 35 | 20.4 | 28 | | | |
| 131 | Propylbenzene | 110 | | | | | mg/kg | 110 | 0.01 | 0.02 | | | |
| 132 | Pyrene | 134 | 15 | 0.39 | 2.4 | 2,400 | mg/kg | 119 | 0.33 | 12 | | 134 | |
| 133 | Radium-226 | 166 | 94 | 1.0857 | 4.094 | 0.73 | pCi/g | 72 | 1.25 | 2.38 | 94 | | 72 |
| 134 | Selenium | 144 | 10 | 0.2 | 0.62 | 400 | mg/kg | 134 | 0.2 | 3 | | 144 | |
| 135 | Silver | 143 | 4 | 1 | 33 | 400 | mg/kg | 139 | 1 | 1.4 | | 143 | |
| 136 | Strontium-90 | 166 | 8 | 1.16 | 3.11 | 8.9 | pCi/g | 158 | 1 | 1 | | 166 | |
| 137 | Styrene | 134 | | | | 16,000 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 138 | Tetrachloroethane [1,1,1,2-] | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 139 | Tetrachloroethane [1,1,2,2-] | 109 | | | | 3.9 | mg/kg | 109 | 0.01 | 0.02 | | 109 | |
| 140 | Tetrachloroethylene | 134 | | | | 5.9 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 141 | Thallium | 144 | 42 | 0.02 | 2.3 | 6.4 | mg/kg | 102 | 0.04 | 1.2 | | 144 | |
| 142 | Thorium-232 | 166 | 76 | 1.666 | 6.521 | 0.88 | pCi/g | 90 | 2.01 | 3.83 | 76 | | 90 |
| 143 | Toluene | 134 | 2 | 0.016 | 0.022 | 890 | mg/kg | 132 | 0.01 | 0.02 | | 134 | |
| 144 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |

## TABLE 2-14

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT PRS 50-006(a), TEN SITE CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | Trichlorobenzene [1,2,4-] | 134 | | | | 160 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 146 | Trichloroethane [1,1,1-] | 134 | | | | 1,000 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 147 | Trichloroethane [1,1,2-] | 134 | | | | 6.3 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 148 | Trichloroethene | 134 | | | | 3.2 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| 149 | Trichlorofluoromethane | 134 | | | | | mg/kg | 134 | 0.01 | 0.02 | | | |
| 150 | Trichlorophenol [2,4,5-] | 134 | | | | 8,000 | mg/kg | 134 | 0.33 | 29 | | 134 | |
| 151 | Trichlorophenol [2,4,6-] | 134 | | | | 64 | mg/kg | 134 | 0.33 | 12 | | 134 | |
| 152 | Trichloropropane [1,2,3-] | 109 | | | | | mg/kg | 109 | 0.01 | 0.02 | | | |
| 153 | Trimethylbenzene [1,2,4-] | 110 | | | | | mg/kg | 110 | 0.01 | 0.02 | | | |
| 154 | Trimethylbenzene [1,3,5-] | 110 | | | | | mg/kg | 110 | 0.01 | 0.02 | | | |
| 155 | Tritium | 167 | | | | 15,000,000 | pCi/g | 167 | 2 | 2 | | 167 | |
| 156 | Uranium-234 | 166 | 166 | 0.594 | 3.538 | 86 | pCi/g | | | | | 166 | |
| 157 | Uranium-235 | 166 | 166 | 0.013 | 0.255 | 18 | pCi/g | | | | | 166 | |
| 158 | Uranium-238 | 166 | 166 | 0.541 | 3.049 | 59 | pCi/g | | | | | 166 | |
| 159 | Vinyl acetate | 91 | | | | | mg/kg | 91 | 0.01 | 0.01 | | | |
| 160 | Vinyl chloride | 134 | | | | 0.012 | mg/kg | 134 | 0.01 | 0.04 | | 131 | 3 |
| 161 | Xylenes (o + m + p) [Mixed-] | 134 | | | | 160,000 | mg/kg | 134 | 0.01 | 0.02 | | 134 | |
| | **Total Number of Values** | **21,356** | **2,426** | | | | | **18,930** | | | **493** | **14,135** | **757** |

# TABLE 2-15

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT MORTANDAD CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number Of Values <SAL, Including <LOD | Number Of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 55 | | | | 4,800 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 2 | Acenaphthylene | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 3 | Acetone | 39 | 1 | 0.027 | 0.027 | 8,000 | mg/kg | 38 | 0.02 | 0.02 | | 39 | |
| 4 | Aniline | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 5 | Anthracene | 55 | | | | 24,000 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 6 | Antimony | 60 | 10 | 0.09 | 0.15 | 32 | mg/kg | 50 | 0.06 | 1.2 | | 60 | |
| 7 | Aroclor 1016 | 18 | | | | | mg/kg | 18 | 0.014 | 0.043 | | | |
| 8 | Aroclor 1221 | 18 | | | | | mg/kg | 18 | 0.014 | 0.043 | | | |
| 9 | Aroclor 1232 | 18 | | | | | mg/kg | 18 | 0.014 | 0.043 | | | |
| 10 | Aroclor 1242 | 57 | | | | | mg/kg | 57 | 0.014 | 1 | | | |
| 11 | Aroclor 1248 | 18 | | | | | mg/kg | 18 | 0.014 | 0.043 | | | |
| 12 | Aroclor 1254 | 57 | | | | | mg/kg | 57 | 0.014 | 1 | | | |
| 13 | Aroclor 1260 | 57 | 5 | 0.02 | 0.11 | | mg/kg | 52 | 0.014 | 1 | | | |
| 14 | Aroclor [Mixed-] | 57 | 5 | 0.02 | 0.11 | 0.09 | mg/kg | 52 | 0.014 | 1 | 1 | 52 | 4 |
| 15 | Arsenic | 60 | 60 | 0.52 | 5.18 | 0.4 | mg/kg | | | | 60 | | |
| 16 | Azobenzene | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 17 | Barium | 60 | 60 | 7 | 160 | 5,600 | mg/kg | | | | | 60 | |
| 18 | Benzene | 39 | | | | 0.67 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 19 | Benzidine [m-] | 55 | | | | | mg/kg | 55 | 0.33 | 3.3 | | | |
| 20 | Benzo[a]anthracene | 55 | | | | 0.64 | mg/kg | 55 | 0.33 | 0.66 | | 24 | 31 |
| 21 | Benzo[a]pyrene | 55 | | | | 0.1 | mg/kg | 55 | 0.33 | 0.66 | | | 55 |
| 22 | Benzo[b]fluoranthene | 55 | | | | 0.7 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 23 | Benzo[g,h,i]perylene | 55 | | | | 44 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 24 | Benzo[k]fluoranthene | 55 | | | | 1.5 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 25 | Benzoic acid | 55 | 1 | 5.7 | 5.7 | 320,000 | mg/kg | 54 | 0.33 | 3.3 | | 55 | |
| 26 | Benzyl alcohol | 55 | | | | | mg/kg | 55 | 0.33 | 1.3 | | | |
| 27 | Beryllium | 60 | 60 | 0.1 | 2 | 0.16 | mg/kg | | | | 58 | 2 | |
| 28 | Bis(2-chloroethoxy)methane | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 29 | Bis(2-chloroethyl)ether | 55 | | | | 0.12 | mg/kg | 55 | 0.33 | 0.66 | | | 55 |
| 30 | Bis(2-chloroisopropyl)ether | 55 | | | | 100 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 31 | Bis(2-ethylhexyl)phthalate | 55 | 2 | 0.36 | 0.39 | 50 | mg/kg | 53 | 0.34 | 0.66 | | 55 | |
| 32 | Bromobenzene | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 33 | Bromochloromethane | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 34 | Bromodichloromethane | 39 | | | | 11 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 35 | Bromoform | 39 | | | | 89 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 36 | Bromomethane | 39 | | | | 0.43 | mg/kg | 39 | 0.01 | 0.01 | | 39 | |
| 37 | Bromophenylphenyl ether [4-] | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 38 | Butanone [2-] | 39 | | | | 4,000 | mg/kg | 39 | 0.02 | 0.02 | | 39 | |

## TABLE 2-15

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT MORTANDAD CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number Of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number Of Values <SAL, Including <LOD | Number Of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | Butyl benzyl phthalate | 55 | | | | 16,000 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 40 | Butylbenzene [n-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 41 | Butylbenzene [sec-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 42 | Butylbenzene [tert-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 43 | Cadmium | 60 | | | | 80 | mg/kg | 60 | 0.4 | 1.2 | | 60 | |
| 44 | Carbon disulfide | 39 | | | | 7.4 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 45 | Carbon tetrachloride | 39 | | | | 0.21 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 46 | Cesium-137 | 59 | 50 | 0.44 | 373.11 | 4 | pCi/g | 9 | 0.338 | 0.74 | 37 | 22 | |
| 47 | Chloro-3-methylphenol [4-] | 55 | | | | 16,000 | mg/kg | 55 | 0.33 | 1.3 | | 55 | |
| 48 | Chloroaniline [4-] | 55 | | | | 320 | mg/kg | 55 | 0.33 | 1.3 | | 55 | |
| 49 | Chlorobenzene | 39 | | | | 67 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 50 | Chlorodibromomethane | 39 | | | | 83 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 51 | Chloroethane | 39 | | | | 3,300 | mg/kg | 39 | 0.01 | 0.01 | | 39 | |
| 52 | Chloroform | 39 | | | | 0.21 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 53 | Chloromethane | 39 | | | | 6.4 | mg/kg | 39 | 0.01 | 0.01 | | 39 | |
| 54 | Chloronaphthalene [2-] | 55 | | | | 6,400 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 55 | Chlorophenol [o-] | 55 | | | | 400 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 56 | Chlorophenylphenyl ether [4-] | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 57 | Chlorotoluene [o-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 58 | Chlorotoluene [p-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 59 | Chromium | 60 | 60 | 0.9 | 56 | 400 | mg/kg | | | | | 60 | |
| 60 | Chrysene | 55 | | | | 22 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 61 | Cobalt-60 | 59 | 23 | 0.56 | 5.22 | 0.9 | pCi/g | 36 | 0.177 | 0.714 | 19 | 40 | |
| 62 | Di-n-butyl phthalate | 55 | 1 | 0.45 | 0.45 | 8,000 | mg/kg | 54 | 0.33 | 0.66 | | 55 | |
| 63 | Di-n-octyl phthalate | 55 | | | | 1,600 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 64 | Dibenzo[a,h]anthracene | 55 | | | | 0.086 | mg/kg | 55 | 0.33 | 0.66 | | | 55 |
| 65 | Dibenzofuran | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 66 | Dibromo-3-chloropropane [1,2-] | 39 | | | | | mg/kg | 39 | 0.01 | 0.01 | | | |
| 67 | Dibromoethane [1,2-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 68 | Dibromomethane | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 69 | Dichlorobenzene (1,2) [o-] | 94 | | | | 1,600 | mg/kg | 94 | 0.005 | 0.66 | | 94 | |
| 70 | Dichlorobenzene (1,3) [m-] | 94 | | | | 7,200 | mg/kg | 94 | 0.005 | 0.66 | | 94 | |
| 71 | Dichlorobenzene (1,4) [p-] | 94 | | | | 290 | mg/kg | 94 | 0.005 | 0.66 | | 94 | |
| 72 | Dichlorobenzidine [3,3'-] | 55 | | | | 1.6 | mg/kg | 55 | 0.33 | 1.3 | | 55 | |
| 73 | Dichlorodifluoromethane | 39 | | | | | mg/kg | 39 | 0.01 | 0.01 | | | |
| 74 | Dichloroethane [1,1-] | 39 | | | | 410 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 75 | Dichloroethane [1,2-] | 39 | | | | 0.2 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 76 | Dichloroethene [1,1-] | 39 | | | | 0.4 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |

# TABLE 2-15

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT MORTANDAD CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number Of Values <SAL, Including <LOD | Number Of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Dichloroethene [trans-1,2-] | 39 | | | | 1,600 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 78 | Dichloroethylene [cis-1,2-] | 39 | | | | 800 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 79 | Dichlorophenol [2,4-] | 55 | | | | 240 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 80 | Dichloropropane [1,2-] | 39 | | | | 6.5 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 81 | Dichloropropane [1,3-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 82 | Dichloropropane [2,2-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 83 | Dichloropropene [1,1-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 84 | Dichloropropene [cis-1,3-] | 39 | | | | 0.17 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 85 | Dichloropropene [trans-1,3-] | 39 | | | | 0.17 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 86 | Diethyl phthalate | 55 | | | | 64,000 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 87 | Dimethyl phthalate | 55 | | | | 800,000 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 88 | Dimethylphenol [2,4-] | 55 | | | | 1,600 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 89 | Dinitrophenol [2,4-] | 55 | | | | 160 | mg/kg | 55 | 0.33 | 3.3 | | 55 | |
| 90 | Dinitrotoluene [2,4-] | 55 | | | | 1 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 91 | Dinitrotoluene [2,6-] | 55 | | | | 1 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 92 | Ethylbenzene | 39 | | | | 3,100 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 93 | Fluoranthene | 55 | | | | 3,200 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 94 | Fluorene | 55 | | | | 3,200 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 95 | Hexachlorobenzene | 55 | | | | 0.44 | mg/kg | 55 | 0.33 | 0.66 | | 24 | 31 |
| 96 | Hexachlorobutadiene | 55 | | | | 90 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 97 | Hexachlorocyclopentadiene | 55 | | | | 560 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 98 | Hexachloroethane | 55 | | | | 80 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 99 | Hexanone [2-] | 39 | | | | | mg/kg | 39 | 0.02 | 0.02 | | | |
| 100 | Indeno[1,2,3-cd]pyrene | 55 | | | | 0.41 | mg/kg | 55 | 0.33 | 0.66 | | 18 | 37 |
| 101 | Isophorone | 55 | | | | 7,400 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 102 | Isopropylbenzene | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 103 | Isopropyltoluene [4-] | 39 | 2 | 0.017 | 0.044 | | mg/kg | 37 | 0.005 | 0.005 | | | |
| 104 | Lead | 58 | 55 | 3 | 70 | 500 | mg/kg | 3 | 4 | 4 | | 58 | |
| 105 | Mercury | 150 | 24 | 0.1 | 0.2 | 24 | mg/kg | 126 | 0.1 | 0.1 | | 150 | |
| 106 | Methyl iodide | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 107 | Methyl-2-pentanone [4-] | 39 | | | | 510 | mg/kg | 39 | 0.02 | 0.02 | | 39 | |
| 108 | Methyl-4,6-dinitrophenol [2-] | 55 | | | | | mg/kg | 55 | 0.33 | 3.3 | | | |
| 109 | Methylene chloride | 39 | | | | 5.6 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 110 | Methylnaphthalene [2-] | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 111 | Methylphenol [2-] | 55 | | | | 4,000 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 112 | Methylphenol [4-] | 55 | | | | 400 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 113 | Naphthalene | 55 | | | | 3,200 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 114 | Nickel | 60 | 53 | 2 | 48 | 1,600 | mg/kg | 7 | 2 | 2 | | 60 | |

# TABLE 2-15

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT MORTANDAD CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number Of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number Of Values <SAL, Including <LOD | Number Of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115 | Nitroaniline [2-] | 55 | | | | | mg/kg | 55 | 0.33 | 3.3 | | | |
| 116 | Nitroaniline [3-] | 55 | | | | | mg/kg | 55 | 0.33 | 3.3 | | | |
| 117 | Nitroaniline [4-] | 55 | | | | | mg/kg | 55 | 0.33 | 3.3 | | | |
| 118 | Nitrobenzene | 55 | | | | 5.3 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 119 | Nitrophenol [2-] | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 120 | Nitrophenol [4-] | 55 | | | | | mg/kg | 55 | 0.33 | 3.3 | | | |
| 121 | Nitrosodi-n-propylamine [N-] | 55 | | | | 0.1 | mg/kg | 55 | 0.33 | 0.66 | | | 55 |
| 122 | Nitrosodimethylamine [N-] | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 123 | Nitrosodiphenylamine [N-] | 55 | | | | 140 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 124 | Pentachlorophenol | 55 | | | | 5.8 | mg/kg | 55 | 0.33 | 3.3 | | 55 | |
| 125 | Phenanthrene | 55 | | | | | mg/kg | 55 | 0.33 | 0.66 | | | |
| 126 | Phenol | 55 | | | | 48,000 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 127 | Plutonium-238 | 59 | 59 | 0.003 | 13.804 | 27 | pCi/g | | | | | 59 | |
| 128 | Plutonium-239 | 59 | 59 | 0.011 | 47.816 | 24 | pCi/g | | | | 1 | 58 | |
| 129 | Potassium-40 | 59 | 58 | 21.5 | 47.8 | | pCi/g | 1 | 20 | 20 | | | |
| 130 | Propylbenzene | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 131 | Pyrene | 55 | | | | 2,400 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 132 | Radium-226 | 59 | 42 | 1.09 | 4.6146 | 0.73 | pCi/g | 17 | 1.43 | 2.24 | 42 | | 17 |
| 133 | Selenium | 61 | 7 | 0.3 | 0.41 | 400 | mg/kg | 54 | 0.2 | 0.2 | | 61 | |
| 134 | Silver | 60 | 4 | 1 | 8 | 400 | mg/kg | 56 | 1 | 1 | | 60 | |
| 135 | Strontium-90 | 57 | 33 | 1.03 | 18.3 | 8.9 | pCi/g | 24 | 1 | 1 | 1 | 56 | |
| 136 | Styrene | 39 | | | | 16,000 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 137 | Tetrachloroethane [1,1,1,2-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 138 | Tetrachloroethane [1,1,2,2-] | 39 | | | | 3.9 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 139 | Tetrachloroethylene | 39 | | | | 5.9 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 140 | Thallium | 60 | 41 | 0.03 | 0.34 | 6.4 | mg/kg | 19 | 0.04 | 1.2 | | 60 | |
| 141 | Thorium-232 | 59 | 33 | 1.8589 | 4.3764 | 0.88 | pCi/g | 26 | 2.06 | 3.5 | 33 | | 26 |
| 142 | Toluene | 39 | | | | 890 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 143 | Trichloro-1,2,2-trifluoroethane [1,1,2-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 144 | Trichlorobenzene [1,2,4-] | 55 | | | | 160 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 145 | Trichloroethane [1,1,1-] | 39 | | | | 1,000 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 146 | Trichloroethane [1,1,2-] | 39 | | | | 6.3 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 147 | Trichloroethene | 39 | | | | 3.2 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| 148 | Trichlorofluoromethane | 39 | 2 | 0.019 | 0.022 | | mg/kg | 37 | 0.005 | 0.005 | | | |
| 149 | Trichlorophenol [2,4,5-] | 55 | | | | 8,000 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 150 | Trichlorophenol [2,4,6-] | 55 | | | | 64 | mg/kg | 55 | 0.33 | 0.66 | | 55 | |
| 151 | Trichloropropane [1,2,3-] | 39 | | | | | mg/kg | 39 | 0.005 | 0.005 | | | |
| 152 | Trimethylbenzene [1,2,4-] | 39 | 1 | 0.026 | 0.026 | | mg/kg | 38 | 0.005 | 0.005 | | | |

## TABLE 2-15

## SUMMARY OF OU 1147 SOIL SAMPLE ANALYSES AT MORTANDAD CANYON

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number Of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number Of Values <SAL, Including <LOD | Number Of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 153 | Trimethylbenzene [1,3,5-] | 39 | 1 | 0.0082 | 0.0082 | | mg/kg | 38 | 0.005 | 0.005 | | | |
| 154 | Tritium | 57 | 26 | 2.009 | 105 | 15,000,000 | pCi/g | 31 | 2 | 2 | | 57 | |
| 155 | Uranium-234 | 60 | 60 | 0.68 | 5.608 | 86 | pCi/g | | | | | 60 | |
| 156 | Uranium-235 | 60 | 60 | 0.003 | 0.315 | 18 | pCi/g | | | | | 60 | |
| 157 | Uranium-238 | 60 | 60 | 0.758 | 7.125 | 59 | pCi/g | | | | | 60 | |
| 158 | Vinyl chloride | 39 | | | | 0.012 | mg/kg | 39 | 0.01 | 0.01 | | 39 | |
| 159 | Xylenes (o + m + p) [Mixed-] | 39 | | | | 160,000 | mg/kg | 39 | 0.005 | 0.005 | | 39 | |
| | **Total Number of Values** | **7,990** | **1,018** | | | | | **6,972** | | | **252** | **5,105** | **366** |

# TABLE 2-16

## SUMARY OF OU 1147 SOIL SAMPLE ANALYSES FOR PRS 50-009, MDA C

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number Of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthene | 76 | 2 | 0.38 | 0.96 | 4,800 | mg/kg | 74 | 0.0002 | 0.36 | | 76 | |
| 2 | Acenaphthylene | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |
| 3 | Acetone | 10 | | | | 8,000 | mg/kg | 10 | 0.02 | 0.02 | | 10 | |
| 4 | Americium-241 | 111 | 111 | 0.002 | 1.017 | 22 | pCi/g | | | | | 111 | |
| 5 | Aniline | 16 | | | | | mg/kg | 16 | 0.33 | 0.36 | | | |
| 6 | Anthracene | 76 | | | | 24,000 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 7 | Antimony | 82 | 6 | 0.08 | 0.25 | 32 | mg/kg | 76 | 0.04 | 0.08 | | 82 | |
| 8 | Aroclor 1016 | 66 | | | | | mg/kg | 66 | 0.03 | 0.15 | | | |
| 9 | Aroclor 1221 | 66 | | | | | mg/kg | 66 | 0.03 | 0.15 | | | |
| 10 | Aroclor 1232 | 66 | | | | | mg/kg | 66 | 0.03 | 0.15 | | | |
| 11 | Aroclor 1242 | 188 | | | | | mg/kg | 188 | 0.03 | 0.15 | | | |
| 12 | Aroclor 1248 | 66 | | | | | mg/kg | 66 | 0.03 | 0.15 | | | |
| 13 | Aroclor 1254 | 188 | 3 | 0.07 | 1 | | mg/kg | 185 | 0.03 | 0.05 | | | |
| 14 | Aroclor 1260 | 188 | 8 | 0.03 | 0.11 | | mg/kg | 180 | 0.03 | 0.15 | | | |
| 15 | Aroclor [Mixed-] | 188 | 11 | 0.03 | 1 | 0.09 | mg/kg | 177 | 0.03 | 0.05 | 5 | 183 | |
| 16 | Arsenic | 85 | 81 | 0.9 | 8 | 0.4 | mg/kg | 4 | 0.2 | 0.2 | 81 | 4 | |
| 17 | Azobenzene | 16 | | | | | mg/kg | 16 | 0.33 | 0.36 | | | |
| 18 | Barium | 81 | 81 | 26 | 250 | 5,600 | mg/kg | | | | | 81 | |
| 19 | Benzene | 10 | | | | 0.67 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 20 | Benzidine [m-] | 16 | | | | | mg/kg | 16 | 0.33 | 0.87 | | | |
| 21 | Benzo[a]anthracene | 76 | | | | 0.64 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 22 | Benzo[a]pyrene | 76 | | | | 0.1 | mg/kg | 76 | 0.0002 | 0.36 | | 3 | 73 |
| 23 | Benzo[b]fluoranthene | 76 | | | | 0.7 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 24 | Benzo[g,h,i]perylene | 76 | | | | 44 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 25 | Benzo[k]fluoranthene | 76 | | | | 1.5 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 26 | Benzoic acid | 76 | | | | 320,000 | mg/kg | 76 | 0.0009 | 1.8 | | 76 | |
| 27 | Benzyl alcohol | 76 | | | | | mg/kg | 76 | 0.0009 | 1.8 | | | |
| 28 | Beryllium | 81 | 81 | 0.32 | 1.4 | 0.16 | mg/kg | | | | 81 | | |
| 29 | Bis(2-chloroethoxy)methane | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |
| 30 | Bis(2-chloroethyl)ether | 76 | | | | 0.12 | mg/kg | 76 | 0.0002 | 0.36 | | 3 | 73 |
| 31 | Bis(2-chloroisopropyl)ether | 76 | | | | 100 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 32 | Bis(2-ethylhexyl)phthalate | 76 | 2 | 1.4 | 1.4 | 50 | mg/kg | 74 | 0.0002 | 0.36 | | 76 | |
| 33 | Bromobenzene | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 34 | Bromochloromethane | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 35 | Bromodichloromethane | 10 | | | | 11 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 36 | Bromoform | 10 | | | | 89 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 37 | Bromomethane | 10 | | | | 0.43 | mg/kg | 10 | 0.01 | 0.01 | | 10 | |
| 38 | Bromophenylphenyl ether [4-] | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |

## TABLE 2-16

## SUMARY OF OU 1147 SOIL SAMPLE ANALYSES FOR PRS 50-009, MDA C

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | Butanone [2-] | 10 | | | | 4,000 | mg/kg | 10 | 0.02 | 0.02 | | 10 | |
| 40 | Butyl benzyl phthalate | 76 | | | | 16,000 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 41 | Butylbenzene [n-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 42 | Butylbenzene [sec-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 43 | Butylbenzene [tert-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 44 | Cadmium | 81 | | | | 80 | mg/kg | 81 | 0.4 | 0.4 | | 81 | |
| 45 | Carbon disulfide | 10 | | | | 7.4 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 46 | Carbon tetrachloride | 10 | | | | 0.21 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 47 | Cesium-137 | 103 | 17 | 0.4037 | 1.22 | 4 | pCi/g | 86 | 0.24 | 0.787 | | 103 | |
| 48 | Chloro-3-methylphenol [4-] | 76 | | | | 16,000 | mg/kg | 76 | 0.0009 | 1.8 | | 76 | |
| 49 | Chloroaniline [4-] | 76 | | | | 320 | mg/kg | 76 | 0.0009 | 1.8 | | 76 | |
| 50 | Chlorobenzene | 10 | | | | 67 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 51 | Chlorodibromomethane | 10 | | | | 83 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 52 | Chloroethane | 10 | | | | 3,300 | mg/kg | 10 | 0.01 | 0.01 | | 10 | |
| 53 | Chloroform | 10 | | | | 0.21 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 54 | Chloromethane | 10 | | | | 6.4 | mg/kg | 10 | 0.01 | 0.01 | | 10 | |
| 55 | Chloronaphthalene [2-] | 76 | | | | 6,400 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 56 | Chlorophenol [o-] | 76 | | | | 400 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 57 | Chlorophenylphenyl ether [4-] | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |
| 58 | Chlorotoluene [o-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 59 | Chlorotoluene [p-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 60 | Chromium | 81 | 81 | 1.3 | 18 | 400 | mg/kg | | | | | 81 | |
| 61 | Chrysene | 76 | | | | 22 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 62 | Cobalt-60 | 103 | 4 | 0.4228 | 0.675 | 0.9 | pCi/g | 99 | 0.128 | 0.814 | | 103 | |
| 63 | Di-n-butyl phthalate | 76 | | | | 8,000 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 64 | Di-n-octyl phthalate | 76 | | | | 1,600 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 65 | Dibenzo[a,h]anthracene | 76 | | | | 0.086 | mg/kg | 76 | 0.0002 | 0.36 | | 3 | 73 |
| 66 | Dibenzofuran | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |
| 67 | Dibromo-3-chloropropane [1,2-] | 10 | | | | | mg/kg | 10 | 0.01 | 0.01 | | | |
| 68 | Dibromoethane [1,2-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 69 | Dibromomethane | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 70 | Dichlorobenzene (1,2) [o-] | 86 | | | | 1,600 | mg/kg | 86 | 0.0002 | 0.36 | | 86 | |
| 71 | Dichlorobenzene (1,3) [m-] | 86 | | | | 7,200 | mg/kg | 86 | 0.0002 | 0.36 | | 86 | |
| 72 | Dichlorobenzene (1,4) [p-] | 86 | | | | 290 | mg/kg | 86 | 0.0002 | 0.36 | | 86 | |
| 73 | Dichlorobenzidine [3,3'-] | 76 | | | | 1.6 | mg/kg | 76 | 0.0009 | 1.8 | | 71 | 5 |
| 74 | Dichlorodifluoromethane | 10 | | | | | mg/kg | 10 | 0.01 | 0.01 | | | |
| 75 | Dichloroethane [1,1-] | 10 | | | | 410 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 76 | Dichloroethane [1,2-] | 10 | | | | 0.2 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |

# TABLE 2-16

## SUMARY OF OU 1147 SOIL SAMPLE ANALYSES FOR PRS 50-009, MDA C

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Dichloroethene [1,1-] | 10 | | | | 0.4 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 78 | Dichloroethene [trans-1,2-] | 10 | | | | 1,600 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 79 | Dichloroethylene [cis-1,2-] | 10 | | | | 800 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 80 | Dichlorophenol [2,4-] | 76 | | | | 240 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 81 | Dichloropropane [1,2-] | 10 | | | | 6.5 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 82 | Dichloropropane [1,3-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 83 | Dichloropropane [2,2-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 84 | Dichloropropene [1,1-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 85 | Dichloropropene [cis-1,3-] | 10 | | | | 0.17 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 86 | Dichloropropene [trans-1,3-] | 10 | | | | 0.17 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 87 | Diethyl phthalate | 76 | | | | 64,000 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 88 | Dimethyl phthalate | 76 | | | | 800,000 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 89 | Dimethylphenol [2,4-] | 76 | | | | 1,600 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 90 | Dinitrophenol [2,4-] | 76 | | | | 160 | mg/kg | 76 | 0.0009 | 1.8 | | 76 | |
| 91 | Dinitrotoluene [2,4-] | 76 | | | | 1 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 92 | Dinitrotoluene [2,6-] | 76 | | | | 1 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 93 | Ethylbenzene | 10 | | | | 3,100 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 94 | Fluoranthene | 76 | | | | 3,200 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 95 | Fluorene | 76 | | | | 3,200 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 96 | Hexachlorobenzene | 76 | | | | 0.44 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 97 | Hexachlorobutadiene | 76 | | | | 90 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 98 | Hexachlorocyclopentadiene | 76 | | | | 560 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 99 | Hexachloroethane | 76 | | | | 80 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 100 | Hexanone [2-] | 10 | | | | | mg/kg | 10 | 0.02 | 0.02 | | | |
| 101 | Indeno[1,2,3-cd]pyrene | 76 | | | | 0.41 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 102 | Isophorone | 76 | | | | 7,400 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 103 | Isopropylbenzene | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 104 | Isopropyltoluene [4-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 105 | Lead | 81 | 81 | 7 | 32 | 500 | mg/kg | | | | | 81 | |
| 106 | Mercury | 228 | 2 | 0.1 | 0.1 | 24 | mg/kg | 226 | 0.1 | 0.1 | | 228 | |
| 107 | Methyl iodide | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 108 | Methyl-2-pentanone [4-] | 10 | | | | 510 | mg/kg | 10 | 0.02 | 0.02 | | 10 | |
| 109 | Methyl-4,6-dinitrophenol [2-] | 76 | | | | | mg/kg | 76 | 0.0009 | 1.8 | | | |
| 110 | Methylene chloride | 10 | | | | 5.6 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 111 | Methylnaphthalene [2-] | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |
| 112 | Methylphenol [2-] | 76 | | | | 4,000 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 113 | Methylphenol [4-] | 76 | | | | 400 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 114 | Naphthalene | 76 | | | | 3,200 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |

## TABLE 2-16

## SUMARY OF OU 1147 SOIL SAMPLE ANALYSES FOR PRS 50-009, MDA C

| Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115 Nickel | 81 | 76 | 2 | 14 | 1,600 | mg/kg | 5 | 2 | 2 | | 81 | |
| 116 Nitroaniline [2-] | 76 | | | | | mg/kg | 76 | 0.0009 | 1.8 | | | |
| 117 Nitroaniline [3-] | 76 | | | | | mg/kg | 76 | 0.0009 | 1.8 | | | |
| 118 Nitroaniline [4-] | 76 | | | | | mg/kg | 76 | 0.0009 | 1.8 | | | |
| 119 Nitrobenzene | 76 | | | | 5.3 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 120 Nitrophenol [2-] | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |
| 121 Nitrophenol [4-] | 76 | | | | | mg/kg | 76 | 0.0009 | 1.8 | | | |
| 122 Nitrosodi-n-propylamine [N-] | 76 | | | | 0.1 | mg/kg | 76 | 0.0002 | 0.36 | | 3 | 73 |
| 123 Nitrosodimethylamine [N-] | 16 | | | | | mg/kg | 16 | 0.33 | 0.36 | | | |
| 124 Nitrosodiphenylamine [N-] | 76 | | | | 140 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 125 Pentachlorophenol | 76 | 1 | 1.9 | 1.9 | 5.8 | mg/kg | 75 | 0.0009 | 1.8 | | 76 | |
| 126 Phenanthrene | 76 | | | | | mg/kg | 76 | 0.0002 | 0.36 | | | |
| 127 Phenol | 76 | | | | 48,000 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 128 Plutonium-238 | 102 | 102 | 0.001 | 0.429 | 27 | pCi/g | | | | | 102 | |
| 129 Plutonium-239 | 102 | 102 | 0.003 | 10.69 | 24 | pCi/g | | | | | 102 | |
| 130 Potassium-40 | 103 | 100 | 17.285 | 44.49 | | pCi/g | 3 | 18.4 | 24.2 | | | |
| 131 Propylbenzene | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 132 Pyrene | 76 | | | | 2,400 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 133 Radium-226 | 103 | 74 | 1.1441 | 4.385 | 0.73 | pCi/g | 29 | 1.47 | 1.9 | 74 | | 29 |
| 134 Selenium | 82 | 37 | 0.3 | 1 | 400 | mg/kg | 45 | 0.2 | 0.3 | | 82 | |
| 135 Silver | 81 | 2 | 1.1 | 6 | 400 | mg/kg | 79 | 1 | 1 | | 81 | |
| 136 Strontium-90 | 108 | | | | 8.9 | pCi/g | 108 | 1 | 1 | | 108 | |
| 137 Styrene | 10 | | | | 16,000 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 138 Tetrachloroethane [1,1,1,2-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 139 Tetrachloroethane [1,1,2,2-] | 10 | | | | 3.9 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 140 Tetrachloroethylene | 10 | | | | 5.9 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 141 Thallium | 83 | 81 | 0.04 | 0.21 | 6.4 | mg/kg | 2 | 0.04 | 0.04 | | 83 | |
| 142 Thorium-232 | 102 | 45 | 1.8314 | 4.798 | 0.88 | pCi/g | 57 | 2.21 | 3.71 | 45 | | 57 |
| 143 Toluene | 10 | | | | 890 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 144 Trichloro-1,2,2-trifluoroethane [1,1,2-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 145 Trichlorobenzene [1,2,4-] | 76 | | | | 160 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 146 Trichloroethane [1,1,1-] | 10 | | | | 1,000 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 147 Trichloroethane [1,1,2-] | 10 | | | | 6.3 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 148 Trichloroethene | 10 | | | | 3.2 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| 149 Trichlorofluoromethane | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 150 Trichlorophenol [2,4,5-] | 76 | | | | 8,000 | mg/kg | 76 | 0.0002 | 0.88 | | 76 | |
| 151 Trichlorophenol [2,4,6-] | 76 | | | | 64 | mg/kg | 76 | 0.0002 | 0.36 | | 76 | |
| 152 Trichloropropane [1,2,3-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |

## TABLE 2-16

## SUMARY OF OU 1147 SOIL SAMPLE ANALYSES FOR PRS 50-009, MDA C

| Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 153 Trimethylbenzene [1,2,4-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 154 Trimethylbenzene [1,3,5-] | 10 | | | | | mg/kg | 10 | 0.005 | 0.005 | | | |
| 155 Tritium | 97 | | | | 15,000,000 | pCi/g | 95 | 2 | 2 | | 97 | |
| 156 Uranium-234 | 103 | 103 | 0.905 | 1.893 | 86 | pCi/g | | | | | 103 | |
| 157 Uranium-235 | 103 | 103 | 0.023 | 0.165 | 18 | pCi/g | | | | | 103 | |
| 158 Uranium-238 | 103 | 103 | 1.066 | 2.449 | 59 | pCi/g | | | | | 103 | |
| 159 Vinyl acetate | 9 | | | | | mg/kg | 9 | 0.01 | 0.01 | | | |
| 160 Vinyl chloride | 10 | | | | 0.012 | mg/kg | 10 | 0.01 | 0.01 | | 10 | |
| 161 Xylenes (o + m + p) [Mixed-] | 10 | | | | 160,000 | mg/kg | 10 | 0.005 | 0.005 | | 10 | |
| **Total Number of Values** | **9,109** | **1,500** | | | | | **7,607** | | | **286** | **6,122** | **383** |

## 2.24 ADS 1148—TAs-51, -54 (Project Leader: Don Krier)

The quarterly subsurface vapor sampling required in the HSWA Permit for the Laboratory was completed on June 6–21, 1994, and the results are shown in Figure 2-15. This map shows the well locations sampled for monitoring the subsurface VOC plume in and around MDA L, the source area for the VOC plume, and compares the quarterly maximum concentrations of 1,1,1-trichloroethane for two quarters. Concentrations were obtained by photoacoustic radiometer measurements on 16 wells with monitor ports as deep as 200 ft. The photoacoustic radiometer is configured to measure concentrations of 1,1,1-trichloroethane, trichoroethene, tetrachloroethene, vinyl chloride, carbon dioxide, and water. Vinyl chloride and carbon dioxide are end products of biodegradation . Vinyl chloride was detected with the photoacoustic radiometer, but all samples drawn for analysis by fixed-laboratory thermal desorption gas chromatography/mass spectrometry show vinyl chloride as a nondetected compound. The identification of vinyl chloride is caused by interference in the photoacoustic radiometer of other plume vapors, but personnel continue to look for the presence of vinyl chloride.

Table 2-17 provides a summary of available analytical results from core samples taken from boreholes within TA-54 (see Section 1.0 for an explanation of this table). The table summarizes VOC and inorganic chemical results from boreholes drilled in this OU since the start of site characterization in the summer of 1993. The holes represent samples from in and around MDA L and are associated with the subsurface vapor plume mentioned above. Only arsenic and beryllium are found in concentrations that exceed their respective SALs, and these constituents are known to exist naturally in Los Alamos area soils at levels above their SALs. Four SVOC compounds were not detected, but the detection limits exceed the SALs: benzo[a]pyrene, bis(2-chloroethyl)ether, dibenzo[a,h]anthracene, and nitrosodi-n-propyl-amine[N]. The analyses also resulted in 11 tentatively identified compounds. The samples in Table 2-17 are cored from tuff known, from pore-gas analyses, to host the VOC plume at relatively high concentrations; the table includes data from the three 300-ft cores drilled in the source areas of the plume. The absence of volatiles in analyses of the cores supports our developing hypothesis that these contaminants exist only in the vapor phase and are not strongly sorbed on to the available pore surfaces.

Data analysis of measured barometric pressure effects within the mesa continued this quarter to study the efficiency of a future passive vapor extraction system. OU personnel have prepared and tested the frequency domain method and software for analysis of barometric fluctuations and their propagation in the soil. Until this quarter, only Well 54-2022 has been instrumented for pressures. Being an old well, it may not be sealed well enough to indicate subsurface pressures accurately; nevertheless, the results indicate the utility of the method. Figure 2-16 shows the amplitude ratio as a function of depth. This is the ratio of the amplitude of a given frequency (period) component at depth, to the amplitude of that component at the surface. In a uniform, one-dimensional soil, the amplitude ratio would decay exponentially with depth. The pressures at the well do not follow the one-dimensional model. Although the data for depths above 100 ft could be accommodated by a model with varying permeability, the behavior below 100 ft suggests that fracture breathing may occur near this depth.

Figure 2-17 presents the phase of various components versus depth. In the one-dimensional model, phase would decay linearly with depth. Phase is a very sensitive measure of anomalous behavior; the information provided in the figure shows that the phases of both the one-day and half-day components become erratic at depths below 100 ft.

Figure 2-18 presents the amplitudes of the pressure difference across the 20-ft intervals between ports. Between 30 and 100 ft, the pressure differences increase with depth, indicating either decreasing permeability or a source of pressure near 100 ft.

Similar measurements in reliable wells will be correlated with passive air flow in a nearby open well, making it possible to predict the subsurface ventilation that may be achieved with a passive venting system.

Other OU activities included cleaning out fill from Boreholes 54-1001 through 54-1006 (drilled last fall) using a large vacuum system. Five of these boreholes were instrumented with SEAMIST membranes for measurements of subsurface pressure and contaminant concentration in the area of the subsurface vapor plume at MDA L. These measurements will increase the OU's understanding of the effects of air movement through the mesa.

Two boreholes were drilled and sampled near tritium disposal shafts in MDA G during the quarter. The holes, 100 and 150 ft deep, were drilled by another Laboratory group and then sampled by this ADS, thus saving on drilling costs. Analytical results from samples for moisture, tritium, VOCs, SVOCs, PCB/pesticides, radionuclides, and metals are not yet available.

Sediment sampling from 17 stream channels that drain the mesa were taken, screened, and sent for analyses of radionuclides, metals, and PCB/pesticides. Analytical results are expected during the first quarter FY95.

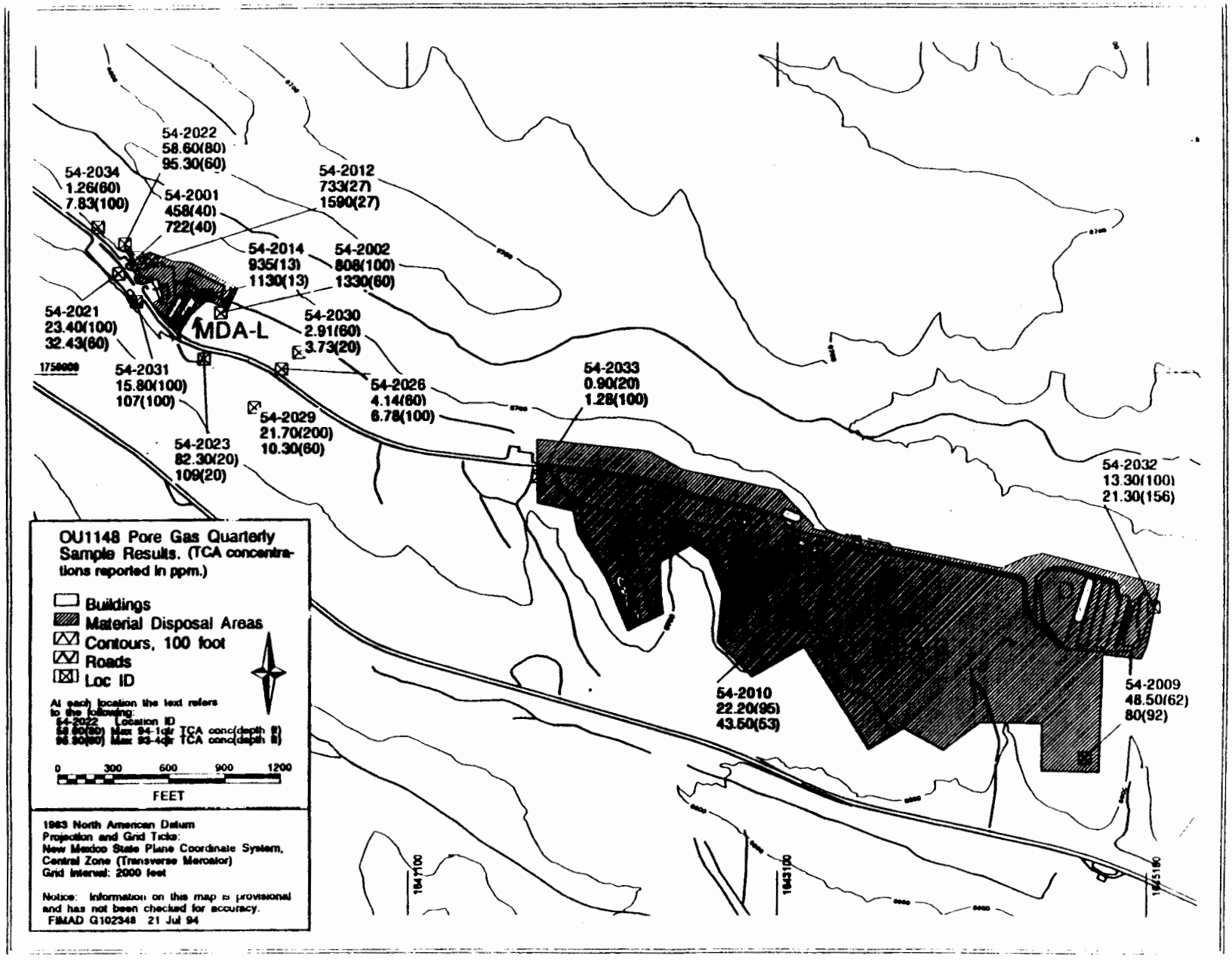



Figure 2-15. OU 1148 pore-gas quarterly sample results.

# TABLE 2-17

## SUMMARY OF ANALYTICAL RESULTS FOR CORE SAMPLES FROM TA-54 BOREHOLES, OU 1148

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Acenaphthylene | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 2 | Acetone | 114 | 26 | 0.021 | 2.1 | 8,000 | mg/kg | 88 | 0.01 | 0.06 | | 114 | |
| 3 | Aluminum | 25 | 25 | 460 | 10,000 | | mg/kg | | | | | | |
| 4 | Aniline | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 5 | Anthracene | 12 | | | | 24,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 6 | Antimony | 25 | 1 | 0.13 | 0.13 | 32 | mg/kg | 24 | 0.1 | 0.21 | | 25 | |
| 7 | Arsenic | 25 | 13 | 0.3 | 1.2 | 0.4 | mg/kg | 12 | 0.2 | 1.5 | 11 | 10 | 4 |
| 8 | Azobenzene | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 9 | Barium | 25 | 21 | 3.5 | 83 | 5,600 | mg/kg | 4 | 3.4 | 17 | | 25 | |
| 10 | Benzene | 114 | | | | 0.67 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 11 | Benzidine [m-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 12 | Benzo[a]anthracene | 12 | | | | 0.64 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 13 | Benzo[a]pyrene | 12 | | | | 0.1 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 14 | Benzo[b]fluoranthene | 12 | | | | 0.7 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 15 | Benzo[g,h,i]perylene | 12 | | | | 44 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 16 | Benzo[k]fluoranthene | 12 | | | | 1.5 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 17 | Benzoic acid | 12 | | | | 320,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 18 | Benzyl alcohol | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 19 | Beryllium | 25 | 20 | 0.094 | 1.1 | 0.16 | mg/kg | 5 | 0.08 | 0.57 | 18 | 3 | 4 |
| 20 | Bis(2-chloroethoxy)methane | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 21 | Bis(2-chloroethyl)ether | 12 | | | | 0.12 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 22 | Bis(2-chloroisopropyl)ether | 12 | | | | 100 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 23 | Bis(2-ethylhexyl)phthalate | 12 | | | | 50 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 24 | Boron | 25 | 1 | 4 | 4 | | mg/kg | 24 | 3 | 4.1 | | | |
| 25 | Bromobenzene | 95 | 1 | 0.0075 | 0.0075 | | mg/kg | 94 | 0.005 | 0.006 | | | |
| 26 | Bromochloromethane | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 27 | Bromodichloromethane | 114 | | | | 11 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 28 | Bromoform | 114 | | | | 89 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 29 | Bromomethane | 114 | | | | 0.43 | mg/kg | 114 | 0.01 | 0.012 | | 114 | |
| 30 | Bromophenylphenyl ether [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 31 | Butanone [2-] | 114 | 4 | 0.026 | 4.8 | 4,000 | mg/kg | 110 | 0.01 | 0.022 | | 114 | |
| 32 | Butyl benzyl phthalate | 12 | | | | 16,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 33 | Butylbenzene [n-] | 95 | 1 | 0.012 | 0.012 | | mg/kg | 94 | 0.005 | 0.006 | | | |
| 34 | Butylbenzene [sec-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 35 | Butylbenzene [tert-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 36 | Cadmium | 25 | | | | 80 | mg/kg | 25 | 0.4 | 0.85 | | 25 | |
| 37 | Calcium | 25 | 23 | 370 | 79,000 | | mg/kg | 2 | 784 | 967 | | | |
| 38 | Carbon disulfide | 114 | | | | 7.4 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |

# TABLE 2-17

## SUMMARY OF ANALYTICAL RESULTS FOR CORE SAMPLES FROM TA-54 BOREHOLES, OU 1148

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39 | Carbon tetrachloride | 114 | | | | 0.21 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 40 | Chloro-3-methylphenol [4-] | 12 | | | | 16,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 41 | Chloroaniline [4-] | 12 | | | | 320 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 42 | Chlorobenzene | 114 | | | | 67 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 43 | Chlorodibromomethane | 114 | | | | 83 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 44 | Chloroethane | 114 | | | | 3,300 | mg/kg | 114 | 0.01 | 0.012 | | 114 | |
| 45 | Chloroethylvinyl ether [2-] | 19 | | | | | mg/kg | 19 | 0.01 | 0.012 | | | |
| 46 | Chloroform | 114 | | | | 0.21 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 47 | Chloromethane | 114 | | | | 6.4 | mg/kg | 114 | 0.01 | 0.012 | | 114 | |
| 48 | Chloronaphthalene [2-] | 12 | | | | 6,400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 49 | Chlorophenol [o-] | 12 | | | | 400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 50 | Chlorophenylphenyl ether [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 51 | Chlorotoluene [o-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 52 | Chlorotoluene [p-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 53 | Chromium | 25 | 21 | 1.3 | 6.8 | 400 | mg/kg | 4 | 0.5 | 0.9 | | 25 | |
| 54 | Chrysene | 12 | | | | 22 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 55 | Cobalt | 25 | 17 | 0.93 | 6.1 | | mg/kg | 8 | 0.5 | 1.9 | | | |
| 56 | Copper | 25 | 24 | 1.2 | 370 | 3,000 | mg/kg | 1 | 2.7 | 2.7 | | 25 | |
| 57 | Cyanide | 25 | | | | 1,600 | mg/kg | 25 | 0.05 | 0.21 | | 25 | |
| 58 | Di-n-butyl phthalate | 12 | 4 | 0.44 | 1 | 8,000 | mg/kg | 8 | 0.33 | 0.33 | | 12 | |
| 59 | Di-n-octyl phthalate | 12 | | | | 1,600 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 60 | Dibenzo[a,h]anthracene | 12 | | | | 0.086 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 61 | Dibenzofuran | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 62 | Dibromo-3-chloropropane [1,2-] | 95 | | | | | mg/kg | 95 | 0.01 | 0.011 | | | |
| 63 | Dibromoethane [1,2-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 64 | Dibromomethane | 95 | 1 | 0.0073 | 0.0073 | | mg/kg | 94 | 0.005 | 0.006 | | | |
| 65 | Dichlorobenzene (1,2) [o-] | 107 | 1 | 0.013 | 0.013 | 1,600 | mg/kg | 106 | 0.005 | 0.33 | | 107 | |
| 66 | Dichlorobenzene (1,3) [m-] | 107 | 1 | 0.011 | 0.011 | 7,200 | mg/kg | 106 | 0.005 | 0.33 | | 107 | |
| 67 | Dichlorobenzene (1,4) [p-] | 107 | | | | 290 | mg/kg | 107 | 0.005 | 0.33 | | 107 | |
| 68 | Dichlorobenzidine [3,3'-] | 12 | | | | 1.6 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 69 | Dichlorodifluoromethane | 95 | | | | | mg/kg | 95 | 0.01 | 0.011 | | | |
| 70 | Dichloroethane [1,1-] | 114 | | | | 410 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 71 | Dichloroethane [1,2-] | 114 | 1 | 0.0093 | 0.0093 | 0.2 | mg/kg | 113 | 0.005 | 0.006 | | 114 | |
| 72 | Dichloroethene [1,1-] | 114 | | | | 0.4 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 73 | Dichloroethene [1,2-] | 19 | | | | | mg/kg | 19 | 0.005 | 0.006 | | | |
| 74 | Dichloroethene [trans-1,2-] | 95 | | | | 1,600 | mg/kg | 95 | 0.005 | 0.006 | | 95 | |
| 75 | Dichloroethylene [cis-1,2-] | 95 | | | | 800 | mg/kg | 95 | 0.005 | 0.006 | | 95 | |
| 76 | Dichlorophenol [2,4-] | 12 | | | | 240 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |

# TABLE 2-17

## SUMMARY OF ANALYTICAL RESULTS FOR CORE SAMPLES FROM TA-54 BOREHOLES, OU 1148

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Minimum | Concentration Range Maximum | SAL | Units | Number Of Values < LOD | LOD Range Minimum | LOD Range Maximum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 77 | Dichloropropane [1,2-] | 114 | | | | 6.5 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 78 | Dichloropropane [1,3-] | 95 | 1 | 0.0068 | 0.0068 | | mg/kg | 94 | 0.005 | 0.006 | | | |
| 79 | Dichloropropane [2,2-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 80 | Dichloropropene [1,1-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 81 | Dichloropropene [cis-1,3-] | 114 | | | | 0.17 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 82 | Dichloropropene [trans-1,3-] | 114 | | | | 0.17 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 83 | Diethyl phthalate | 12 | | | | 64,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 84 | Dimethyl phthalate | 12 | | | | 800,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 85 | Dimethylphenol [2,4-] | 12 | | | | 1,600 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 86 | Dinitrophenol [2,4-] | 12 | | | | 160 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 87 | Dinitrotoluene [2,4-] | 12 | | | | 1 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 88 | Dinitrotoluene [2,6-] | 12 | | | | 1 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 89 | Ethylbenzene | 114 | | | | 3,100 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 90 | Fluoranthene | 12 | | | | 3,200 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 91 | Fluorene | 12 | | | | 3,200 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 92 | Hexachlorobenzene | 12 | | | | 0.44 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 93 | Hexachlorobutadiene | 12 | | | | 90 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 94 | Hexachlorocyclopentadiene | 12 | | | | 560 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 95 | Hexachloroethane | 12 | | | | 80 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 96 | Hexanone [2-] | 114 | 2 | 0.02 | 0.021 | | mg/kg | 112 | 0.01 | 0.022 | | | |
| 97 | Indeno[1,2,3-cd]pyrene | 12 | | | | 0.41 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 98 | Iron | 25 | 25 | 1,450 | 10,000 | | mg/kg | | | | | | |
| 99 | Isophorone | 12 | | | | 7,400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 100 | Isopropylbenzene | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 101 | Isopropyltoluene [4-] | 95 | 2 | 0.0052 | 0.006 | | mg/kg | 93 | 0.005 | 0.006 | | | |
| 102 | Lead | 25 | 18 | 3.4 | 14 | 500 | mg/kg | 7 | 4 | 5 | | 25 | |
| 103 | Magnesium | 25 | 21 | 52 | 1,300 | | mg/kg | 4 | 48.5 | 309 | | | |
| 104 | Manganese | 25 | 25 | 79 | 770 | 8,000 | mg/kg | | | | | 25 | |
| 105 | Mercury | 25 | | | | 24 | mg/kg | 25 | 0.02 | 0.1 | | 25 | |
| 106 | Methyl iodide | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 107 | Methyl-2-pentanone [4-] | 114 | 2 | 0.034 | 0.078 | 510 | mg/kg | 112 | 0.01 | 0.022 | | 114 | |
| 108 | Methyl-4,6-dinitrophenol [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 109 | Methylene chloride | 114 | | | | 5.6 | mg/kg | 114 | 0.005 | 0.028 | | 114 | |
| 110 | Methylnaphthalene [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 111 | Methylphenol [2-] | 12 | | | | 4,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 112 | Methylphenol [4-] | 12 | | | | 400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 113 | Molybdenum | 25 | 1 | 3.4 | 3.4 | 400 | mg/kg | 24 | 2 | 6.2 | | 25 | |
| 114 | Naphthalene | 12 | | | | 3,200 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |

# TABLE 2-17

## SUMMARY OF ANALYTICAL RESULTS FOR CORE SAMPLES FROM TA-54 BOREHOLES, OU 1148

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 115 | Nickel | 25 | 2 | 2.3 | 4.6 | 1,600 | mg/kg | 23 | 2 | 2.4 | | 25 | |
| 116 | Nitroaniline [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 117 | Nitroaniline [3-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 118 | Nitroaniline [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 119 | Nitrobenzene | 12 | | | | 5.3 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 120 | Nitrophenol [2-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 121 | Nitrophenol [4-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 122 | Nitrosodi-n-propylamine [N-] | 12 | | | | 0.1 | mg/kg | 12 | 0.33 | 0.33 | | | 12 |
| 123 | Nitrosodimethylamine [N-] | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 124 | Nitrosodiphenylamine [N-] | 12 | | | | 140 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 125 | Pentachlorophenol | 12 | | | | 5.8 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 126 | Phenanthrene | 12 | | | | | mg/kg | 12 | 0.33 | 0.33 | | | |
| 127 | Phenol | 12 | | | | 48,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 128 | Potassium | 25 | 21 | 180 | 1,000 | | mg/kg | 4 | 220 | 777 | | | |
| 129 | Propylbenzene | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 130 | Pyrene | 12 | | | | 2,400 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 131 | Selenium | 25 | 4 | 0.3 | 1 | 400 | mg/kg | 21 | 0.2 | 0.43 | | 25 | |
| 132 | Silver | 25 | | | | 400 | mg/kg | 25 | 1 | 1.1 | | 25 | |
| 133 | Sodium | 25 | 21 | 150 | 640 | | mg/kg | 4 | 256 | 538 | | | |
| 134 | Styrene | 114 | | | | 16,000 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 135 | Tetrachloroethane [1,1,1,2-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 136 | Tetrachloroethane [1,1,2,2-] | 114 | | | | 3.9 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 137 | Tetrachloroethylene | 114 | | | | 5.9 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 138 | Thallium | 25 | 1 | 0.3 | 0.3 | 6.4 | mg/kg | 24 | 0.1 | 0.21 | | 25 | |
| 139 | Toluene | 114 | | | | 890 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 140 | Trichlorobenzene [1,2,4-] | 12 | | | | 160 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 141 | Trichloroethane [1,1,1-] | 114 | | | | 1,000 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 142 | Trichloroethane [1,1,2-] | 114 | | | | 6.3 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 143 | Trichloroethene | 114 | | | | 3.2 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 144 | Trichlorofluoromethane | 114 | | | | | mg/kg | 114 | 0.005 | 0.015 | | | |
| 145 | Trichlorophenol [2,4,5-] | 12 | | | | 8,000 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 146 | Trichlorophenol [2,4,6-] | 12 | | | | 64 | mg/kg | 12 | 0.33 | 0.33 | | 12 | |
| 147 | Trichloropropane [1,2,3-] | 95 | 1 | 0.014 | 0.014 | | mg/kg | 94 | 0.005 | 0.006 | | | |
| 148 | Trimethylbenzene [1,2,4-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 149 | Trimethylbenzene [1,3,5-] | 95 | | | | | mg/kg | 95 | 0.005 | 0.006 | | | |
| 150 | Vanadium | 25 | 18 | 1.2 | 9.5 | 560 | mg/kg | 7 | 0.8 | 2 | | 25 | |
| 151 | Vinyl acetate | 31 | | | | | mg/kg | 31 | 0.01 | 0.012 | | | |
| 152 | Vinyl chloride | 114 | | | | 0.012 | mg/kg | 114 | 0.01 | 0.012 | | 113 | 1 |

## TABLE 2-17

## SUMMARY OF ANALYTICAL RESULTS FOR CORE SAMPLES FROM TA-54 BOREHOLES, OU 1148

| | Analyte | Number of Values Per Analyte | Number Of Values >= LOD | Concentration Range Mini-mum | Concentration Range Maxi-mum | SAL | Units | Number Of Values < LOD | LOD Range Mini-mum | LOD Range Maxi-mum | Number of Values >=SAL | Number of Values <SAL, Including <LOD | Number of Values <LOD, with LOD>=SAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 153 | Xylenes (o + m + p) [Mixed-] | 114 | | | | 160,000 | mg/kg | 114 | 0.005 | 0.006 | | 114 | |
| 154 | Zinc | 25 | 25 | 12 | 240 | 24,000 | mg/kg | | | | | 25 | |
| | **Total Number of Values** | **7,862** | **396** | | | | | **7,466** | | | **29** | **4,973** | **57** |

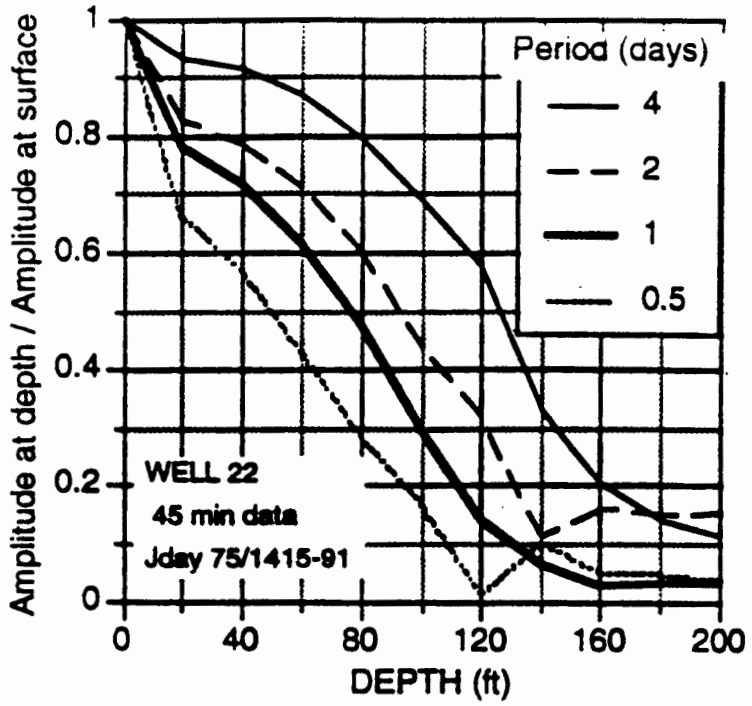



**Figure 2-16. Amplitude ratio as a function of depth for Well 54-0022, OU 1148. (J day = Julian day.)**

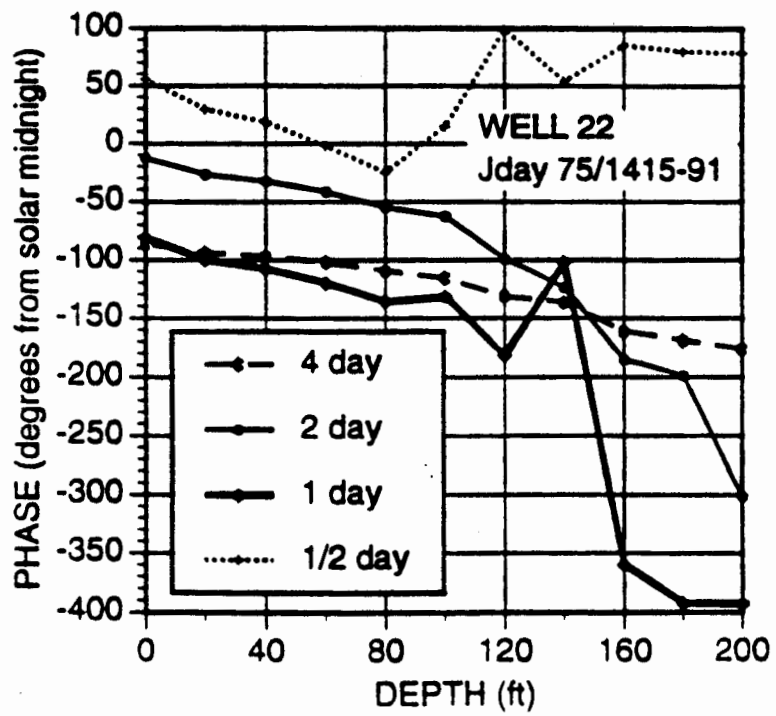



**Figure 2-17. Phase of absolute pressure at depth for Well 54-0022, OU 1148.**

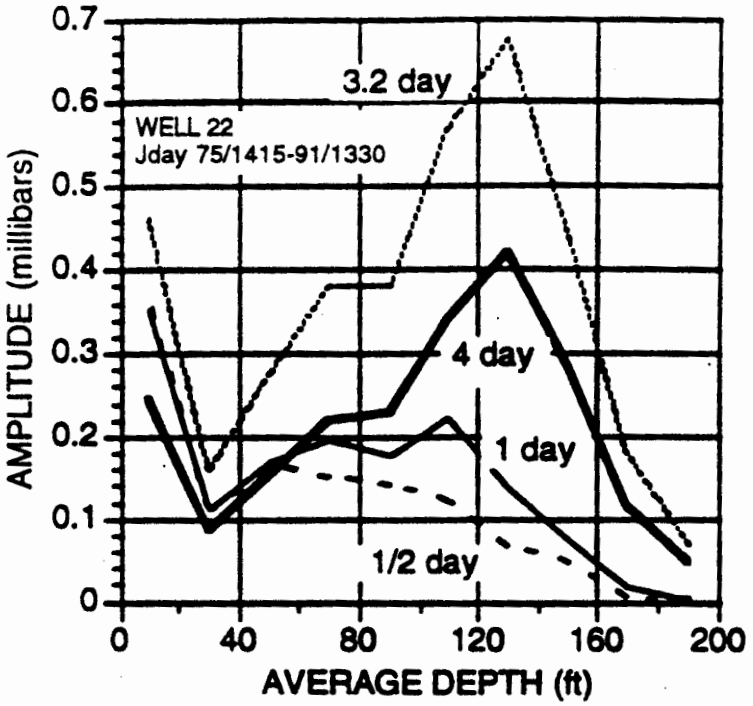



**Figure 2-18. Pressure amplitude across 20-ft increment of depth for Well 54-0022, OU 1148.**

## 2.25 ADS 1154—TA-57 (Project Leader: Tracy Glatzmaier)

The final draft of the RFI work plan for OU 1154 was submitted to the EPA on May 23, 1994.

Phase I RFI sampling will begin as soon as the requirements for the National Environmental Policy Act have been completed to the satisfaction of the DOE and the United States Forest Service. The DOE Environmental Checklist for OU 1154 was combined with OUs 1085, 1100, and 1136 and was submitted on June 24, 1994.

Other preparations for the RFI sampling included the following activities. The biological survey for the sludge pit, which is outside of the TA-57 boundary, has been completed. It was determined that the Jemez Mountains salamander will not be a cause for concern because sampling will not occur on canyon slopes. The site-specific health and safety plan for Phase I RFI sampling was started on May 25, 1994, and is near completion. Coordination of notifications and preparation for RFI field work is in process, and the tentative date for the readiness review is July 22, depending upon the DOE Environmental Checklist and the United States Forest Service approval.

## 2.26 ADS 1157—TAs-8, -9, -23, -69 (Project Leader: Tracy Glatzmaier)

Phase I RFI sampling began on April 7 when the first round of water sampling in Pajarito Creek and its tributaries occurred. Water samples were taken at Homestead Spring, which is located in Pajarito Canyon north of MDA M, at Starmer's and Charlie's Springs, which are located in a tributary to Pajarito Canyon east of MDA M, and at a point on Pajarito Creek, which is located upstream from TA-8 and MDA M. Analyses were performed for extended analyte-list volatile and semivolatile organics, inorganic compounds, organochlorine, pesticides, PCBs, major ions, nitrate, sulfate, silicate, total dissolved solids, high explosives, fecal coliform, fecal streptococcus, gross gamma, and tritium. This sampling will continue to occur on a quarterly basis through fall of 1994.

Phase I RFI surface soil sampling, outfall sampling, and tank and drain sampling began on April 19 and were completed June 9. Two hundred eighty-four samples were taken. Analyses were performed for extended analyte-list volatile and semivolatile organics, extended analyte-list inorganic compounds, barium, beryllium, cadmium, chromium, lead, mercury, copper, silver, cyanide, nitrate, acetone, benzene, carbon tetrachloride, chloroform, pentachlorophenol, methylethylketone, toluene, organochlorine, pesticides, PCBs, high explosives, gross alpha, gross beta, gross radiation, and strontium-90. The high-explosives spot test was used for field screening and resulted in one positive test in ducts at MDA M. "Yellow cake" or uranium oxide was discovered in one of the grid cells at MDA M after obtaining a field monitoring measurement for radiation that was high.

The EPA notice of deficiency on the RFI work plan for OU 1157 was received this quarter. The response was submitted on May 23, 1994.

EG&G took additional radiation reflection measurements at one location at PRS 9-012 (the TA-9 bald spots) on June 23. The measurements were taken at the same location where readings were taken last year, in order to obtain more refined data. TA-8 and TA-9 were also covered in EG&G's multispectral flyover in June.

## 3.0 REFERENCES

LANL (Los Alamos National Laboratory), May 1992. "RFI Work Plan for Operable Unit 1129," Los Alamos National Laboratory Report LA-UR-92-800, Los Alamos, New Mexico. (LANL 1992, 0785)

LANL (Los Alamos National Laboratory), May 1992. "RFI Work Plan for Operable Unit 1147," Los Alamos National Laboratory Report LA-UR-92-969, Los Alamos, New Mexico. (LANL 1992, 0787)

LANL (Los Alamos National Laboratory), November 1993. "Installation Work Plan for Environmental Restoration," Revision 3, Los Alamos National Laboratory Report LA-UR-93-3987, Los Alamos, New Mexico. (LANL 1993, 1017)