FINAL REPORT

CONTAMINATION ASSESSMENT OF CONCRETE SUMPS AT IOWA ARMY AMMUNITION PLANT

Contract No. DAAA15-90-D-0006

Task 0003

Prepared for:

U.S. Army Environmental Center
Aberdeen Providing Ground, MD 21010-5400

Prepared by:

JAYCOR

1608 Spring Hill Road
Vienna, Virginia 22182-2270

9 June 1993

JAYCOR

FINAL REPORT

CONTAMINATION ASSESSMENT of CONCRETE SUMPS at IOWA ARMY AMMUNITION PLANT

Contract No. DAAA15-90-D-0006

Task 0003

Prepared for:

U.S. Army Environmental Center
Aberdeen Proving Ground, MD 21010-5400

Prepared by:

JAYCOR
1608 Spring Hill Road
Vienna, Virginia 22182

10 June 1993

JAYCOR

FINAL REPORT

CONTAMINATION ASSESSMENT
of
CONCRETE SUMPS
at

IOWA ARMY AMMUNITION PLANT

Contract No. DAAA15-90-D-0006

Task 0003

Prepared for:

U.S. Army Environmental Center
Aberdeen Proving Ground, Maryland 21010-5400

Prepared by:

JAYCOR
1608 Spring Hill Road
Vienna, Virginia 22311

10 June, 1993

TABLE OF CONTENTS

TABLES

TABLE OF CONTENTS (Cont'd)

TABLES (Cont'd)

FIGURE

APPENDICES

1.0 FINAL REPORT

1.1 INTRODUCTION

This Final Report has been prepared in partial fulfillment of the requirements of Task Order Number 0003, Contract DAAA15-90-D-0006. The data discussed herein were collected in association with the ongoing Remedial Investigation/Feasibility Study (RI/FS) at the Iowa Army Ammunition Plant (IAAP), Middletown, Iowa. This report consists solely of data collected described in the proposed work plan dated 3 September 1992.

An initial survey of the sumps was conducted on 28 July 1992, with the assistance of base personnel, to confirm the existence and size of the sumps. Survey efforts located 36 concrete sumps (Table 1). All structures listed in the Task Order were located except one sump at Building 7-54-2. There was no apparent evidence that a sump was or had been located at that site. An unreported sump was located at Building 5B-55 and subsequently included in this assessment. It was determined that the dimensions of some sumps varied from the initial listing. The location of outfall pipes, if any, was noted for each structure.

During the initial survey, each sump was measured to determine the size, height above grade, and presence of any outfalls. All sumps were constructed of concrete and appeared structurally sound, with no obvious evidence that the bottoms had been breached. Proposed sampling locations at each sump were marked with plastic flags.

Table 1. IAAP Sump Sample Summary.

Sump No.	Bldg.No.	Size (ft)	No.Surf. Samples	No. At Depth	Depth BGS*** (in)
1	1-50	6x9x3	3	3	34*
2	1-50	6x9x3	3	3	19*
3	1-08-1	6x9x3	2	2	28
4	1-05-1	7.25x7.25x6	2	2	25&33
5	1-05-2	7.25x7.25x6	2	2	36
6**	1-05-2	2x2x2	2	0	N/A
7	1-05-2	2x2x2	2	0	N/A
8	1-40	14x20x2-4.5	5	5	19-43*
9	2-06-1	6x9x3	2	2	30
10	2-50	6x9x3	2	2	31
11	2-05-2	7.25x7.25x6	3	1	12
12	2-05-2	9x9.5x3	3	3	34*
13	2-05-1	9x9x3	3	3	35
14	2-05-1	7.25x7.25x6	4	4	37*
15	2-05-1	9x9x3	3	3	33
16	2-05-1	3x6x3.5	2	2	37
17	3-05-1	4x7x3	2	2	32
18	3-05-1	4x7x3	2	2	33
19	3-05-1	7.25x7.25x6	3	3	37*
20	3A-50-1	6x9x3	3	3	34*
21	3A-50-2	6x9x3	2	2	40
22**	5B-55	2x2x2	2	1	16
23**	5B-55	2x2x2	2	2	19
24**	5B-21	2x2x2	2	2	24
25	5B-56	2x2x2	2	2	22
26	5B-25	2x2x2	2	2	24
27	5B-27	2x2x2	2	2	24
28	5A-21	2x2x2	2	2	24
29	5A-56	2x2x2	2	2	26
30	5A-25	2x2x2	2	2	23
31	6-19	2x2x2	2	2	24*
32**	6-98	2x2x2	2	2	28
33	6-96	2x2x2	3	3	22*
34	7-18	2x2x2	2	2	24
35	7-67	2x2x2	2	2	33
36	7-54-1	2x2x2	2	2	28

* At-depth in a low area will be at 12 inches

** Sump associated with an SI sample

*** Below ground surface

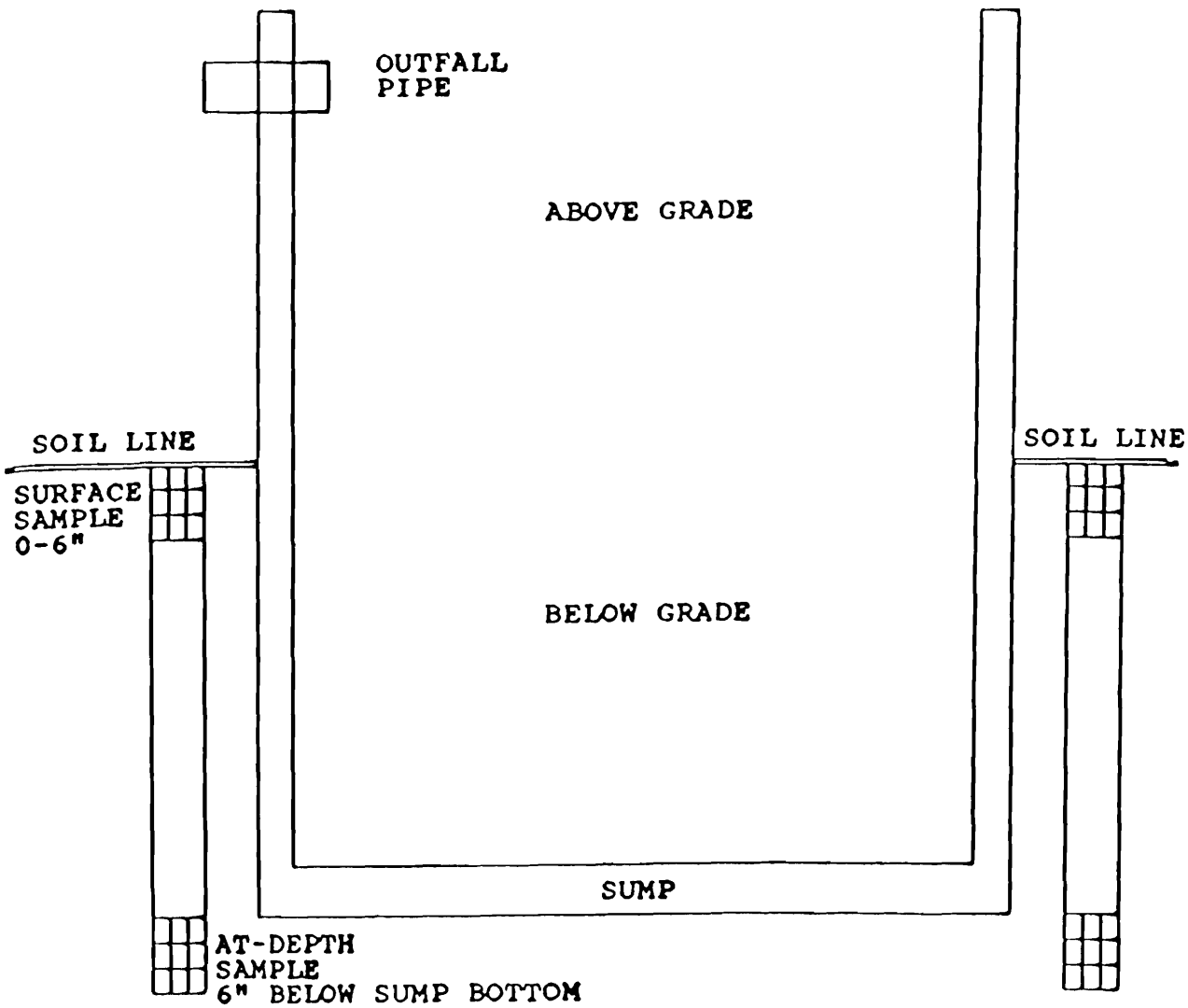
Originally the sumps were designed to be level with the building floor; therefore, the level of each sump below ground surface varies. The proposed sample locations included both surface and at-depth samples. Samples were collected at the surface (0 to 6 inch interval) and at-depth (6 inches below the bottom of the sump, plus the thickness of the concrete bottom) (Figure 1).

1.2 GENERAL DESCRIPTION OF SAMPLE COLLECTION

Soil grab samples were collected from the area around each sump and from associated drainageways in an attempt to identify areas of contamination. When possible, a sample was collected near each outfall pipe. Samples also were collected from another side of the sump, generally the opposite side from the overflow pipe. Sump-specific sample locations are discussed below. Soil samples were collected with hand augers using the protocols described in the RI Work Plan.

Soil samples were analyzed for explosives and metals using U.S. Army Environmental Center (USAEC)-certified methods described in the RI work plan. Several sumps were sampled as part of the July 1991 Site Investigation (SI), all at a depth of 12 inches. No volatile organic compound (VOC) contamination was present at that depth interval. Based on the SI data and RI soil gas survey results, it was determined that there was an extremely low probability that soil VOCs would be detected at depths of less than 30 inches. All soil samples taken from a depth greater than 30 inches were analyzed for VOCs. Based on these conditions, only soil samples collected at depths greater than 30 inches (total depth of the hole) were analyzed for VOCs. An extensive soil gas survey was performed as part of the Remedial Investigation (RI) field work. Results of this survey showed no VOC contamination at shallow depths.

Figure 1. Sump Assessment Sampling Strategy.



Water samples were obtained from sumps that contained accessible water during the sampling event. Some sumps were dry, covered or beneath buildings.

During the July 1992 sump survey, all of the small 2' by 2' by 2' sumps were empty; some larger sumps contained water and/or sediments. Water and sediment sampling techniques as described in the RI Work Plan were utilized for this investigation and are hereby referenced.

The soil around several sumps was sampled during the SI in 1991. The results of these samples will be presented in the discussion of the analytical data for each sump.

Some sumps were located near drainage pathways or topographically low areas where contaminants are likely to accumulate. In these cases, samples were collected from the nearby drainageway or low area at the surface and at a depth of 12 inches.

At many of the sumps there was no apparent topographic relief leaving the sump or building. In these cases, samples were collected from the surface and at-depth on opposite sides of the sump.

A sample numbering program similar to that used in the RI was used in this assessment. Each sample was assigned a ten-character number. The first two characters were SU to designate sump. The second set of characters corresponded to the sump number. The third set of characters designated the type of sample: surface soil (SS); soil auger (SA); sump water (SW); or sediment (SD). The fourth set of characters designated the sample location at a particular sump. The final set of characters designated the number of samples per hole per sump. For

example, the sample number SU-01-SA-01-02 relates to a sample at sump number 01, a soil auger at sample location 01, and it is the second sample at that location. A summary of the samples collected, depth of samples, location of samples and analysis for each sample can be found in Appendix A, located at the end of this report.

This sump assessment was conducted in accordance with the RI/FS Data Quality Objectives, Work Plan Tasks (except as modified herein), Data Management Plan, Community Relations Activities, Health and Safety Plan, Project Management and Coordination, and Quality Assurance Project Plan. All reporting is in accordance with the requirements described in the Task Order.

1.3 SITE SPECIFIC CONTAMINANT ANALYSIS

A description of the building, sump, sample location, and sample analysis is provided and distinguished by building, with a table indicating contaminants detected in each sample and the evaluation criteria. Evaluation criteria consists of the maximum background for each contaminant as determined during the RI background sampling event. Metals and explosives screening data collected around selected sumps during the Phase I RI is reviewed and discussed qualitatively as appropriate in this report. Reference is made to the Phase I RI Work Plan for further details and discussions of screening standard operating procedures (SOPs). Appendices B-E contain all sample data. Maps of each line depicting the corresponding samples may be found in Appendix F. A list of acronyms used in this report can be found in Appendix G.

No volatile organics were detected above evaluation criteria in any of the subsurface samples.

1.3.1 Building 1-50

Two sumps are located at Building 1-50; the dimensions for each are 6 feet by 9 feet by 3 feet. The concrete is six inches thick.

Building 1-50 is a TNT Screening Building. Activities that take place at Building 1-50 include TNT screening and inspection. Sumps collect water from weekly washdown of equipment, ceilings, walls, and floors. Hot water and steam are used for the washdown.

Sump 1 (see Table 1) is located approximately 20 feet east of the north/south runway. The surface sample (SU-01-SS-01-01) collected below the outfall pipe contained higher than background concentrations of cadmium, chromium, copper, lead, and zinc (Table 2). Elevated levels of lead were also reported in surface samples obtained at the southeast corner of the structure. Data indicated localized and surface metal contamination, specifically lead, at this sump. The reported levels of contaminants above evaluation criteria, and the evaluation criteria (Maximum Background) is provided in the table below.

Table 2. Contaminant Concentrations at Sump 1.

Sample No.	Contaminant	Concentration	Criteria
SU-01-SS-01-01	Cadmium	2.28 µg/g	0.899 µg/g
(outfall)	Chromium	57 µg/g	48 µg/g
	Copper	72.2 µg/g	30.9 µg/g
	Lead	749 µg/g	53 µg/g
	Zinc	531 µg/g	133 µg/g
SU-01-SS-02-01 (southeast corner)	Lead	144 µg/g	53 µg/g

Sump 2 is directly north of Sump 1 along the north side of Building 1-50. The sump top is 29 inches above grade, and the outfall pipe is located near the northeast corner of the sump. The surface soil sample obtained from below the outfall contained lead (Table 3). A trace level of 2,4,6-TNT was detected in the surface sample obtained from the northeast corner of the sump. No contaminants were reported in the sample obtained in the low area west of the sump. These data indicate that low level localized surface contamination exists around the sump.

Table 3. Contaminant Concentrations at Sump 2.

Sample No.	Contaminant	Concentration	Criteria
SU-02-SS-01-01 (outfall)	Lead	64.6 µg/g	53 µg/g
SU-02-SS-02-01 (northeast corner)	2,4,6-TNT	1.99 µg/g	0.456 µg/g

1.3.2 Building 1-08-1

Sump 3 is located adjacent to the west side of Building 1-08-1. The sump measures 6 feet by 9 feet, and was estimated to be 3 feet deep. The sump is located between the building and the railroad tracks, and is under a cover, which prevented an accurate measurement of depth. The outfall is located near the northwest corner of the structure.

Building 1-08-1 is a TNT Service Magazine utilized for the storage of TNT. Sumps were only used if a spill occurred. Periodically, tap water was used to wash down the floors.

The surface (SU-03-SA-01-01) and at-depth (SU-03-SA-01-02) samples obtained from below the outfall contained elevated levels of explosives and metals (Table 4). The samples obtained near the southwest corner of the sump contained considerably lower levels of metals, although both

were detected in the surface and at-depth samples. The at-depth samples were obtained at 28 inches. During the Phase I RI, explosives and metals screening around the sump indicated contamination around the building at depths of up to 2 feet.

Table 4. Contaminant Concentrations at Sump 3.

Sample No.	Contaminant	Concentration	Criteria
SU-03-SS-01-01	HMX	1580 µg/g	0.666 µg/g
(outfall)	RDX	3740 µg/g	0.587 µg/g
	2,4,6-TNT	9.18 µg/g	0.456 µg/g
	Antimony	22.8 µg/g	3.57 µg/g
	Cadmium	2.98 µg/g	0.899 µg/g
	Chromium	65.4 µg/g	65.4 µg/g
	Copper	441 µg/g	30.9 µg/g
	Lead	977 µg/g	53 µg/g
	Silver	0.767 µg/g	0.294 µg/g
	Zinc	765 µg/g	133 µg/g
SU-03-SA-01-02	2,4-DNT	0.678 µg/g	0.424 µg/g
(outfall)	HMX	390 µg/g	0.666 µg/g
	RDX	108 µg/g	0.587 µg/g
	2,4,6-TNT	1.67 µg/g	0.456 µg/g
	Cadmium	1.24 µg/g	0.899 µg/g
	Copper	126 µg/g	30.9 µg/g
	Lead	232 µg/g	53 µg/g
SU-03-SS-02-01	HMX	33 µg/g	0.666 µg/g
(southeast corner)	Cadmium	2.17 µg/g	0.899 µg/g
	Lead	77.9 µg/g	53 µg/g
SU-03-SA-02-02	HMX	98.8 µg/g	0.666 µg/g
(southeast corner)	RDX	122 µg/g	0.587 µg/g
	Lead	127 µg/g	53 µg/g

1.3.3 Building 1-05-1

Sump 4 is located at Building 1-05-1, which is a melt building. The sump measures 7 feet 3 inches square and 6 feet deep. It is constructed of eight-inch thick concrete, and is located below the building floor. At the southeast corner, the top of the sump is 61 inches above the ground; at the northeast corner, the top is 53 inches above grade. The contents of the sump are unknown, and there was no outfall.

Sample locations were based on site topography. The ground slopes from northwest to southeast, and samples were collected near these respective corners of the sump. The northwest corner at-depth sample was collected at a depth of 33 inches, the at-depth sample collected from the southeast corner was collected at 25 inches. No contaminants were reported in the at-depth samples. Low levels of cadmium and lead were reported in the surface sample (SU-04-SS-01-01) collected on the southeast corner (Table 5). Lead was reported in the surface sample, SU-04-SS-02-01, as well.

Table 5. Contaminant Concentrations at Sump 7.

Sample No.	Contaminant	Concentration	Criteria
SU-04-SS-01-01	Cadmium	2.06 µg/g	0.899 µg/g
(southeast corner)	Lead	110 µg/g	53 µg/g
SU-04-SS-02-01	Lead	74.5 µg/g	53 µg/g
(northwest corner)			

1.3.4 Building 1-05-2

There are 3 sumps at Building 1-05-2, a melt building, included in this study. Sump 5 is a large sump with the dimensions 7 feet by 3 feet square and 6 feet deep. The sump top extends 50

inches above the ground surface. Samples were collected from the northeast and southwest corners of the sump. At-depth samples were obtained at 3.0 feet.

The subsurface sample obtained on the northwest corner contained RDX; 1,3,5-TNB; 2,4,6-TNT; cadmium; and lead (Table 6). The surface sample did not contain contaminants above the detection limit. The surface soil sample on the southeast corner contained low levels of cadmium and lead. The subsurface sample from the south east corner did not contain contaminants above detection limits.

Table 6. Contaminant Concentrations at Sump 5.

Sample No.	Contaminant	Concentration	Criteria
SU-05-SA-01-02	RDX	4.21 µg/g	0.587 µg/g
(northwest corner)	1,3,5-TNB	20.9 µg/g	0.488 µg/g
	2,4,6-TNT	9210 µg/g	0.456 µg/g
	Cadmium	12 µg/g	0.899 µg/g
	Lead	151 µg/g	53 µg/g
SU-05-SA-02-01	Cadmium	3.64 µg/g	0.899 µg/g
(southeast corner)	Lead	55.3 µg/g	53 µg/g

Sump 6 and Sump 7 are 2 feet by 2 feet by 2 feet. Both sump tops are 24 inches above grade and constructed of 4-inch concrete. The surface soil samples were collected from the area immediately below the sump bottom since both sumps are sitting on grade, therefore at-depth samples were determined unnecessary.

At Sump 6, located on the north side of Building 1-05-2, surface samples were collected from below the outfall pipe located on the northeast corner of the sump, and downgradient to the west

of the structure. A sediment sample was also obtained from inside the sump. A soil sample collected during the SI study (01-SA-05-01) contained higher than background concentrations of barium (12,000 µg/g), cadmium (3.26 µg/g), chromium (111 µg/g), copper (74 µg/g), lead (310 µg/g), zinc (840 µg/g), and 2,4,6-TNT (0.8 µg/g). The surface soil sample obtained from below the outfall contained elevated levels of RDX, 2,4,6-TNT, cadmium, chromium, lead, mercury, silver, and zinc. The subsurface soil sample contained elevated levels of HMX; RDX; 2,4,6-TNT; cadmium; chromium; copper; lead; and zinc. The sediment sample contained cadmium, chromium, copper, lead, mercury, and zinc. No explosives were reported in the sediment sample. A summary of results is presented in Table 4. Explosives and metals screening around this sump during the Phase I RI confirms metals and explosives contamination up to depths of 2 feet.

Table 7. Contaminant Concentrations at Sump 6.

Sample No.	Contaminant	Concentration	Criteria
SU-06-SS-01-01	RDX	0.768 µg/g	0.587 µg/g
(outfall)	2,4,6-TNT	36.1 µg/g	0.456 µg/g
	Cadmium	3.9 µg/g	0.899 µg/g
	Chromium	121 µg/g	48 µg/g
	Copper	146 µg/g	30.9 µg/g
	Lead	2140 µg/g	53 µg/g
	Mercury	0.614 µg/g	0.155 µg/g
	Silver	0.964 µg/g	0.294 µg/g
	Zinc	1400 µg/g	133 µg/g
SU-06-SS-02-01	HMX	12.7 µg/g	0.666 µg/g
(west of sump)	RDX	184 µg/g	0.587 µg/g
	2,4,6-TNT	1.18 µg/g	0.456 µg/g
	Cadmium	3.03 µg/g	0.899 µg/g
	Chromium	114 µg/g	48 µg/g

Table 7. Contaminant Concentrations at Sump 6 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-06-SS-02-01	Copper	60.3 µg/g	30.9 µg/g
(west of sump)	Lead	494 µg/g	53 µg/g
	Zinc	745 µg/g	133 µg/g
SU-06-SD-01-01	Cadmium	6.85 µg/g	0.899 µg/g
(sediment)	Chromium	321 µg/g	48 µg/g
	Copper	182 µg/g	30.9 µg/g
	Lead	1100 µg/g	53 µg/g
SU-06-SD-01-01	Mercury	2.37 µg/g	0.155 µg/g
	Zinc	1390 µg/g	133 µg/g

At Sump 7, surface soil samples were collected below the outfall and adjacent to the east side of the sumps. A sediment sample was also collected from the sump. All three samples collected contained HMX; 2,4,6-TNT; barium; cadmium; chromium; copper; lead; mercury; silver; and zinc (Table 8). The sediment sample also contained elevated levels of antimony and nickel. Screening around the sump during the RI confirms extensive metals and explosives contamination.

Table 8. Contaminant Concentrations at Sump 7.

Sample No.	Contaminant	Concentration	Criteria
SU-07-SS-01-01	HMX	302 µg/g	0.666 µg/g
(outfall)	2,4,6-TNT	2.33 µg/g	0.456 µg/g
	Barium	13,300µg/g	363 µg/g
	Cadmium	20.6 µg/g	0.899 µg/g
	Chromium	424 µg/g	48 µg/g

Table 8. Contaminant Concentrations at Sump 7 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-07-SS-01-01	Lead	2000 µg/g	53 µg/g
(outfall)	Mercury	0.852 µg/g	0.155 µg/g
	Silver	2.02 µg/g	0.294 µg/g
	Zinc	2590 µg/g	133 µg/g
SU-07-SS-02-01	2,4,6-TNT	1.07 µg/g	0.456 µg/g
(east side)	Barium	3530 µg/g	363 µg/g
	Cadmium	2.92 µg/g	0.899 µg/g
	Chromium	84.4 µg/g	48 µg/g
	Lead	462 µg/g	53 µg/g
SU-07-SS-02-01	Mercury	0.468 µg/g	0.155 µg/g
	Zinc	450 µg/g	133 µg/g
SU-07-SD-01-01	HMX	195 µg/g	0.666 µg/g
(sediment)	2,4,6-TNT	0.886 µg/g	0.456 µg/g
	Antimony	47.1 µg/g	3.57 µg/g
	Barium	10.400 µg/g	363 µg/g
	Cadmium	69.5 µg/g	0.899 µg/g
	Chromium	1360 µg/g	48 µg/g
	Lead	5610 µg/g	53 µg/g
	Mercury	1.54 µg/g	0.155 µg/g
	Nickel	284 µg/g	67.9 µg/g
	Silver	6.53 µg/g	0.294 µg/g
	Zinc	7640 µg/g	133 µg/g

1.3.5 Building 1-40

Sump 8 is located on the north side of Building 1-40. Building 1-40 is a Ammonium Nitrate Igloo. Activities include the storage of Ammonium Nitrate. Spilled ammonium nitrate may have been swept into drains leading to sump pit.

Sump 8 is large, measuring 14 feet by 20 feet. The bottom slopes from east to west along the wide portion of the sump and varies in depth from 2 to 4.5 feet. The sump is divided into two cells, which are both filled with sediment and soil and covered by vegetation.

Samples were collected outside the sump near the center of each wall and also approximately 40 feet northeast (downgradient) of the northeast corner of the sump in a drainage area. At-depth samples were collected at 19 inches on the west side, 43 inches of the east side, and 34 inches on the north and south sides. The at-depth sample in the drainage area was collected at 12 inches.

RDX and HMX contamination was reported in all surface soils and at-depth samples taken at the site (Table 9), except for the surface sample taken on the south side, sample number SU-08-SS-01. The downgradient surface sample contained the highest levels of explosives. Lead was detected in the surface sample taken on the east side of the sump. Both shallow and at-depth explosives contamination exist around the northern portion of the sump. The drainage pathway appears to be contaminated from the surface migration of contaminants from Building 1-40.

Table 9. Contaminant Concentrations at Sump 8.

Sample No.	Contaminant	Concentration	Criteria
SU-08-SS-01-01 (west side)	HMX	4.98 µg/g	0.666 µg/g
SU-08-SA-01-02	HMX	19.2 µg/g	0.666 µg/g
	RDX	4.32 µg/g	0.587 µg/g

Table 9. Contaminant Concentrations at Sump 8 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-08-SS-02-01	HMX	115 µg/g	0.666 µg/g
(north side)	RDX	3.18 µg/g	0.587 µg/g
SU-08-SA-02-02	HMX	11.9 µg/g	0.666 µg/g
	RDX	107 µg/g	0.587 µg/g
SU-08-SS-04-01	HMX	62.9 µg/g	0.666 µg/g
(east side)	RDX	2.2 µg/g	0.587 µg/g
SU-08-SA-04-02	HMX	4.62 µg/g	0.666 µg/g
	RDX	12.1 µg/g	0.587 µg/g
SU-08-SS-05-01	1,3-DNT	0.572 µg/g	0.496 µg/g
(downgradient)	2,4,-TNT	7.49 µg/g	0.424 µg/g
	HMX	664 µg/g	0.666 µg/g
	Nitrobenzene	67.6 µg/g	2.41 µg/g
	RDX	509 µg/g	0.587 µg/g
	1,3,5-TNB	106 µg/g	0.488 µg/g
	2,4,6-TNT	10.4 µg/g	0.456 µg/g
	Cadmium	1.17 µg/g	0.899 µg/g
SU-08-SA-05-02	HMX	10.6 µg/g	0.666 µg/g
	RDX	8.5 µg/g	0.587 µg/g

1.3.6 Building 2-06-1

Sump 9 is located on the south side of Building 2-06-1 within shed 2-140-6. Building 2-06-1 is an Ammonium Nitrate Service Magazine. Activities include storage of ammonium nitrate. Spilled ammonium nitrate may have been swept into the drain leading to the sump pit.

The 6 feet by 9 feet by 3 feet sump has an outfall near the southeast corner. The top of the sump is 18 inches above grade. A surface and at-depth sample was obtained from beneath the outfall pipe and near the southwest corner of the sump. A sediment sample was also obtained from within the sump. The two surface samples contained elevated concentrations of cadmium and significantly elevated levels of lead (Table 10). The sediment sample contained elevated levels of lead. Metals and explosives screening occurred around Building 2-140-6 during the RI Phase I study. Elevated levels of explosives were reported at areas around the building as well as lead and zinc.

Table 10. Contaminant Concentrations at Sump 9.

Sample No.	Contaminant	Concentration	Criteria
SU-09-SS-01-01 (outfall)	Cadmium	1.31 µg/g	0.899 µg/g
	Lead	1360 µg/g	53 µg/g
SU-09-SS-02-01 (southwest corner)	Cadmium	1.89 µg/g	0.899 µg/g
	Lead	533 µg/g	53 µg/g
SU-09-SD-01-01 (sediment)	Lead	1290 µg/g	53 µg/g

1.3.7 Building 2-50

Sump 10 is located on the south side of Building 2-50 in shed 2-140-5. Building 2-50 is a TNT Screening Building, where TNT screening and inspection occurs. Sumps receive wastewater from the weekly washdown of equipment, ceilings, walls, and floor. Hot water and steam are used for the washdown.

The 6 feet by 9 feet by 3 feet sump has an outfall pipe located near the southeast corner of the structure. The top of the sump is 17 inches above grade.

Surface and at-depth samples (31 inches) were collected below the outfall and on the east side. The surface sample collected below the outfall contained elevated levels of explosives and metals (Table 11). The at-depth sample obtained at the outfall and the samples on the east side of the sump contained low level explosive contaminants. Screening samples around Building 2-50 during the Phase I RI/FS study indicated elevated levels of metals and explosives on the west side of the building. Screening activities around the sump along with the sump data presented below indicate localized explosives and metals contamination around Sump 10.

Table 11. Contaminant Concentrations at Sump 10.

Sample No.	Contaminant	Concentration	Criteria
SU-10-SS-01-01	Tetryl	7960 µg/g	0.731 µg/g
(outfall)	2,4,6-TNT	795 µg/g	0.456 µg/g
SU-10-SA-01-02	Tetryl	2.31 µg/g	0.731 µg/g
SU-10-SS-02-01 (east side)	2,4,6-TNT	8.3 µg/g	0.456 µg/g
SU-10-SA-02-02	2,4,6-TNT	1.49 µg/g	0.456 µg/g

1.3.8 Building 2-05-2

Two large, active sumps are located at Building 2-05-2, which is utilized as a Melt Building. Sump 11 is 7 feet 3 inches by 7 feet 3 inches by 6 feet and located on the east side of the building. A post-construction installed pipe extends from the sump to an aboveground storage

tank (AST). The AST has a discharge pipe that extends to the edge of the concrete pad upon which it rests. A well-defined drainageway runs from the east side of the concrete pad to the south. The sump sits above grade so only surface samples were obtained from the northwest and southeast corners of the sump. A surface and at-depth sample were taken in the drainage area, east of the AST, and a surface sample was obtained downgradient to the south of the concrete pad. Most surface samples contained elevated levels of explosives and metals (Table 12). The downgradient sample (SU-11-SS-04-01) contained very high levels of explosives. Metals and explosives screening around Building 2-05-2 during the Phase I RI indicate widespread contamination.

Table 12. Contaminant Concentrations at Sump 11.

Sample No.	Contaminant	Concentration	Criteria
SU-11-SS-01-01	HMX	1250 µg/g	0.666 µg/g
(northwest corner)	RDX	5.87 µg/g	0.587 µg/g
	Antimony	15.4 µg/g	357 µg/g
	Lead	55.8 µg/g	53 µg/g
SU-11-SS-02-01	HMX	711 µg/g	0.666 µg/g
(southeast corner)	RDX	56.4 µg/g	0.587 µg/g
	2,4,6-TNT	77.6 µg/g	0.456 µg/g
	Antimony	16.5 µg/g	357 µg/g
	Lead	55.8 µg/g	53 µg/g
SU-11-SS-03-01	HMX	7.17 µg/g	0.666 µg/g
(drainage)	RDX	58.7 µg/g	0.587 µg/g
	2,4,6-TNT	8.31 µg/g	0.456 µg/g
	Cadmium	1.12 µg/g	0.899 µg/g
	Lead	648 µg/g	53 µg/g

Table 12. Contaminant Concentrations at Sump 11 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-11-SS-04-01	1,3-DNT	2.55 µg/g	0.496 µg/g
(downgradient)	2,4,-DNT	2.82 µg/g	0.424 µg/g
	HMX	784 µg/g	0.666 µg/g
	RDX	5480 µg/g	0.587 µg/g
SU-11-SS-04-01	1,3,5-TNB	348 µg/g	0.488 µg/g
	2,4,6-TNT	1460 µg/g	0.456 µg/g
	Cadmium	1.33 µg/g	0.899 µg/g

Sump 12 is a large, active sump located on the north side of Building 2-05-2 in shed 2-140-3. The 9 feet by 9 feet 6 inches by 3 feet sump has an overflow pipe near the northwest corner of the structure, and a drainageway originates along the north side and runs to the southwest. The sump was full of water at the time of sampling. Surface and at-depth (34 inches) samples were obtained from below the outfall pipe, and on the south side of the sump. Surface and at-depth (12 inches) samples were collected from the drainageway west of the sump. Additionally, a surface water sample was obtained from the sump. All three surface samples contained significant levels of explosives and metals contamination (Table 13). The at-depth samples contained much lower levels of explosives, and no metals above the evaluation criteria. The water sample obtained from the sump contained high levels of explosives. Metals and explosives screening during the Phase I RI/FS study indicates localized contamination around the sump.

Table 13. Contaminant Concentrations at Sump 12.

Sample No.	Contaminant	Concentration	Criteria
SU-12-SS-01-01	2,4,-DNT	8.48 µg/g	0.424 µg/g
(outfall)	HMX	590 µg/g	0.666 µg/g
SU-12-SS-01-01	RDX	34.4 µg/g	0.587 µg/g
	2,4,6-TNT	101 µg/g	0.456 µg/g
	Chromium	102 µg/g	48 µg/g
SU-12-SS-01-01	Lead	217 µg/g	53 µg/g
	Mercury	1.03 µg/g	0.155 µg/g
SU-12-SA-01-02	HMX	1.81 µg/g	0.666 µg/g
SU-12-SS-02-01	HMX	6710 µg/g	0.666 µg/g
(southeast side)	RDX	1450 µg/g	0.587 µg/g
	2,4,6-TNT	22.8 µg/g	0.456 µg/g
	Antimony	11.3 µg/g	3.57 µg/g
	Chromium	208 µg/g	48 µg/g
	Lead	989 µg/g	53 µg/g
	Mercury	6.53 µg/g	0.155 µg/g
SU-12-SA-02-02	HMX	2.57 µg/g	0.666 µg/g
SU-12-SS-03-01	HMX	701 µg/g	0.666 µg/g
(drainage)	RDX	11.7 µg/g	0.587 µg/g
SU-12-SS-03-01	2,4,6-TNT	34.2 µg/g	0.456 µg/g
	Lead	177 µg/g	53 µg/g
SU-12-SA-03-02	HMX	8.45 µg/g	0.666 µg/g
	2,4,6-TNT	2.93 µg/g	0.456 µg/g
SU-12-SW-01-01	1,3-DNB	47.3 µg/L	0.496 µg/L
(sump water)	2,4,-DNT	81.8 µg/L	0.424 µg/L

Table 13. Contaminant Concentrations at Sump 12 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-12-SW-01-01	HMX	496 µg/L	0.06 µg/L
	RDX	2240 µg/L	0.587 µg/L
	1,3,5-TNB	0.449 µg/L	0.488 µg/L
SU-12-SW-01-01	2,4,6-TNT	0.717 µg/L	0.456 µg/L
	Lead	6.8 µg/L	4.8 µg/L

1.3.9 Building 2-05-1

Four sumps are located around Building 2-05-1, which is utilized as a Melt Building.

Sump 13 is located in shed 2-140-2 on the north side of the building. The sump is 9 feet by 9 feet by 3 feet, and the top is 13 inches above grade. An outfall pipe is near the northwest corner of the structure. The ground slopes from east to west along the north side of the sump.

Surface and at-depth (35 inches) samples were collected from the east and west sides of the sump, and beneath the outfall pipe. A water sample was also obtained from within the sump. All soil samples obtained from the site had elevated levels of explosives (Table 14). Unusually high levels of mercury were reported in all samples. Small, silver balls were noted during sample collection at depths up to 2.0 feet. Elevated levels of lead were identified at the outfall and on the east side. The water sample contained elevated levels of explosives. Metals and explosives screening results from around Building 2-05-1, although not inclusive of this sump, indicates areas of extensive surface contamination of explosives and metals.

Table 14. Contaminant Concentrations at Sump 13.

Sample No.	Contaminant	Concentration	Criteria
SU-13-SS-01-01	HMX	388 µg/g	0.666 µg/g
(outfall)	RDX	921 µg/g	0.587 µg/g
	1,3,5-TNB	48.8 µg/g	0.488 µg/g
	2,4,6-TNT	165 µg/g	0.456 µg/g

Table 14. Contaminant Concentrations at Sump 13 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-13-SS-01-01	Cadmium	2.82 µg/g	0.899 µg/g
(outfall)	Chromium	96.1 µg/g	48 µg/g
	Lead	462 µg/g	53 µg/g
	Mercury	158 µg/g	0.155 µg/g
	Zinc	647 µg/g	133 µg/g
SU-13-SA-01-02	HMX	16 µg/g	0.666 µg/g
	RDX	9 µg/g	0.587 µg/g
	1,3,5-TNB	1.15 µg/g	0.488 µg/g
	2,4,6-TNT	15.7 µg/g	0.456 µg/g
	Lead	123 µg/g	53 µg/g
	Mercury	230 µg/g	0.155 µg/g
SU-13-SS-02-01	HMX	84.4 µg/g	0.666 µg/g
(east side)	RDX	8.73 µg/g	0.587 µg/g
	1,3,5-TNB	5.51 µg/g	0.488 µg/g
	2,4,6-TNT	71.2 µg/g	0.456 µg/g
	Cadmium	1.73 µg/g	0.899 µg/g
	Lead	673 µg/g	53 µg/g
	Mercury	10.4 µg/g	0.155 µg/g
	Zinc	383 µg/g	133 µg/g
SU-13-SA-02-02	HMX	2.67 µg/g	0.666 µg/g
	RDX	2.7 µg/g	0.587 µg/g
	2,4,6-TNT	6.51 µg/g	0.456 µg/g
	Mercury	1.08 µg/g	0.155 µg/g
SU-13-SS-03-01	HMX	123 µg/g	0.666 µg/g
(west side)	RDX	774 µg/g	0.587 µg/g
	2,4,6-TNT	286 µg/g	0.456 µg/g
	Chromium	25.2 µg/g	48 µg/g
	Lead	56.8 µg/g	53 µg/g
	Mercury	35.2 µg/g	0.155 µg/g

Table 14. Contaminant Concentrations at Sump 13 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-13-SA-03-02	HMX	5.61 µg/g	0.666 µg/g
	RDX	15 µg/g	0.587 µg/g
	2,4,6-TNT	88 µg/g	0.456 µg/g
	Mercury	130 µg/g	0.155 µg/g
SU-13-SW-01-01	HMX	223 µg/L	0.66 µg/L
(sump water)	Nitrobenzene	4.64 µg/L	2.41 µg/L
	RDX	1100 µg/L	0.587 µg/L
	1,3,5-TNB	51.2 µg/L	0.488 µg/L
	2,4,6-TNT	5650 µg/L	0.456 µg/L

Sump 14 is located under the east side of Building 2-05-1. The sump is 7 feet 3 inches by 7 feet 3 inches by 6 feet, and the top is 47 inches above grade. Surface and at-depth (37 inches) samples were obtained from below the outfall pipe near the northeast corner, from the southwest corner, and from the northeast corner. Surface and at-depth (12 inches) samples were also obtained in a drainageway, north of the sump.

All samples collected at this sump, except the surface sample from the northeast corner, contained RDX; HMX; and 2,4,6-TNT (Table 15). No metals above the evaluation criteria were reported. Screening which occurred around Building 2-05-1 during the Phase I RI/FS indicates widespread contamination of both explosives and metals around the sump.

Table 15. Contaminant Concentrations at Sump 14.

Sample No.	Contaminant	Concentration	Criteria
SU-14-SS-01-01	HMX	2680 µg/g	0.666 µg/g
(outfall)	RDX	7240 µg/g	0.587 µg/g
	1,3,5-TNB	21.2 µg/g	0.488 µg/g
	2,4,6-TNT	6900 µg/g	0.456 µg/g

Table 15. Contaminant Concentrations at Sump 14 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-14-SA-01-02	HMX	11.3 µg/g	0.666 µg/g
	RDX	52.1 µg/g	0.587 µg/g
	1,3,5-TNB	4.87 µg/g	0.488 µg/g
	2,4,6-TNT	23.7 µg/g	0.456 µg/g
SU-14-SS-02-01	HMX	10.8 µg/g	0.666 µg/g
(southwest corner)	RDX	63.2 µg/g	0.587 µg/g
	2,4,6-TNT	27.5 µg/g	0.456 µg/g
SU-14-SA-02-02	HMX	90.6 µg/g	0.666 µg/g
	RDX	275 µg/g	0.587 µg/g
	2,4,6-TNT	20.1 µg/g	0.456 µg/g
SU-14-SA-03-02	HMX	2.47 µg/g	0.666 µg/g
(northeast corner)	RDX	1.2 µg/g	0.587 µg/g

Sump 15 is located on the south side of Building 2-05-1 in shed 2-140-1. The sump is 9 feet by 9 feet by 3 feet, and the top is 15 inches above grade at the outfall pipe in the southwest corner. Surface and at-depth (33 inches) samples were obtained from beneath the outfall, on the west side, and near the southeast corner of the sump. A water sample was obtained from within the sump. Lead and explosives were reported in the sample (Table 16). Surface and at-depth explosives and metals contamination was found at the three sample locations. Metals screening around the building during the Phase I RI/FS indicate a localized, lead contamination problem around the sump.

Table 16. Contaminant Concentrations at Sump 15.

Sample No.	Contaminant	Concentration	Criteria
SU-15-SS-01-01	HMX	1.29 µg/g	0.666 µg/g
(outfall)	2,4,6-TNT	2.45 µg/g	0.456 µg/g
	Cadmium	15.3 µg/g	0.899 µg/g
	Chromium	204 µg/g	48.0 µg/g
	Copper	114 µg/g	30.9 µg/g
	Lead	1390 µg/g	53 µg/g
	Mercury	4.58 µg/g	0.155 µg/g
SU-15-SA-01-02	HMX	5.46 µg/g	0.666 µg/g
	RDX	4.72 µg/g	0.587 µg/g
	1,3,5-TNB	1.26 µg/g	0.488 µg/g
	2,4,6-TNT	22.9 µg/g	0.456 µg/g
SU-15-SS-02-01	HMX	99.2 µg/g	0.666 µg/g
(west side)	RDX	65.8 µg/g	0.587 µg/g
	1,3,5-TNB	1.43 µg/g	0.488 µg/g
	2,4,6-TNT	15.3 µg/g	0.456 µg/g
	Cadmium	5.98 µg/g	0.899 µg/g
	Chromium	162 µg/g	48.0 µg/g
	Copper	82.9 µg/g	30.9 µg/g
	Lead	1260 µg/g	53 µg/g
	Mercury	3.22 µg/g	0.155 µg/g
SU-15-SA-02-02	HMX	2.25 µg/g	0.666 µg/g
	RDX	1.39 µg/g	0.587 µg/g
	1,3,5-TNB	1.44 µg/g	0.488 µg/g
	2,4,6-TNT	3.81 µg/g	0.456 µg/g
	Lead	86.6 µg/g	53 µg/g

Table 16. Contaminant Concentrations at Sump 15 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-15-SS-03-01	HMX	352 µg/g	0.666 µg/g
(southeast corner)	RDX	1450 µg/g	0.587 µg/g
	2,4,6-TNT	36.9 µg/g	0.456 µg/g
	Chromium	99.3 µg/g	48.0 µg/g
	Copper	52.9 µg/g	30.9 µg/g
	Lead	182 µg/g	53 µg/g
SU-15-SA-03-02	HMX	14.7µg/g	0.666 µg/g
	RDX	43.7 µg/g	0.587 µg/g
	2,4,6-TNT	3.05 µg/g	0.456 µg/g
	Lead	170 µg/g	53 µg/g
SU-15-SW-01-01	HMX	168 µg/l	0.66 µg/l
(water)	RDX	235 µg/l	0.58 µg/l
	1,3,5-TNB	1.03 µg/l	0.448 µg/l
	2,4,6-TNT	0.635 µg/l	0.456 µg/l
SU-15-SW-01-01	Chromium	13.3 µg/l	6.02 µg/l
	Copper	111 µg/l	8.09 µg/l
	Lead	86.3 µg/l	4.8 µg/l

Sump 16, located on the west side of Building 2-05-1, is 3 feet 6 inches by 3 feet 6 inches. The top is 9 inches above grade, and there is no outfall pipe. Surface and at-depth (32 inches) samples were collected on the north and south sides of the sump. A sump water sample was obtained from the sump. The water sample contained significantly high levels of explosives and metals (Table 17). Explosives and metals were reported in the soil samples collected at the sump.

Table 17. Contaminant Concentrations at Sump 16.

Sample No.	Contaminant	Concentration	Criteria
SU-16-SS-01-01	Cadmium	6.32 µg/g	0.899 µg/g
(north side)	Copper	38.6 µg/g	30.9 µg/g
SU-16-SA-01-02	2,4,6-TNT	1.55 µg/g	0.456 µg/g
	Copper	49.6 µg/g	30.9 µg/g
SU-16-SS-02-01	RDX	7.14 µg/g	0.587 µg/g
(south side)	Cadmium	1.09 µg/g	0.899 µg/g
SU-16-SW-01-01	HMX	542 µg/l	0.66 µg/l
(sump water)	RDX	2370 µg/l	0.587 µg/l
	1,3,5-TNB	7.14 µg/l	0.488 µg/l
	2,4,6-TNT	4270 µg/l	0.456 µg/l
	Copper	244 µg/l	8.09 µg/l
	Lead	80.5 µg/l	4.8 µg/l

1.3.10 Building 3-05-1

Three sumps are located at Building 3-05-1, a melt building. Sump 17 is located on the north side of Building 3-05-1. The 4 feet by 7 feet by 3 feet sump has no outfall pipe. The top is 16 inches above grade. Samples were collected on the northeast and southwest corners of the sump. Metals and explosives were detected in both surface samples (Table 18). The at-depth (32 inches) samples were reported to contain explosives. Metals and explosives screening around the building during the Phase I RI/FS indicates shallow, localized areas of explosives contamination exist.

Table 18. Contaminant Concentrations at Sump 17.

Sample No.	Contaminant	Concentration	Criteria
SU-17-SS-01-01	HMX	3.52 µg/g	0.666 µg/g
(northeast corner)	RDX	1.99 µg/g	0.587 µg/g
	2,4,6-TNT	8.6 µg/g	0.456 µg/g
	Cadmium	1.57 µg/g	0.899 µg/g
SU-17-SA-01-02	RDX	6.57 µg/g	0.587 µg/g
	2,4,6-TNT	4.51 µg/g	0.456 µg/g
SU-17-SS-02-01	2,4,6-TNT	1.48 µg/g	0.456 µg/g
(southwest corner)	Cadmium	1.53 µg/g	0.899 µg/g
	Lead	255 µg/g	53 µg/g
SU-17-SA-02-02	RDX	2.6 µg/g	0.587 µg/g
	2,4,6-TNT	2.73 µg/g	0.456 µg/g

Sump 18, located on the north side of 3-05-1, is active and measures 4 feet by 7 feet by 3 feet. The sump top is 15 inches above grade. An outfall pipe was located at the northwest corner.

Surface and at-depth (33 inches) samples were obtained from beneath the outfall pipe and on the west side of the structure. Explosives and lead were found in the samples obtained from the west side of the sump. No other soil samples contained metals above the evaluation criteria. Elevated levels of explosives were reported in the surface sample obtained below the outfall, with the at-depth sample indicating significantly lower levels of explosives (Table 19).

Table 19. Contaminant Concentrations at Sump 18.

Sample No.	Contaminant	Concentration	Criteria
SU-18-SS-01-01	2,4-DNT	2.17 µg/g	0.424 µg/g
(outfall)	HMX	220 µg/g	0.666 µg/g
	RDX	31 µg/g	0.587 µg/g
	1,3,5-TNB	2.89 µg/g	0.488 µg/g
	2,4,6-TNT	946 µg/g	0.456 µg/g
	Cadmium	2.6 µg/g	0.899 µg/g
SU-18-SA-01-02	2,4,6-TNT	1.45 µg/g	0.456 µg/g
SU-18-SS-02-01	HMX	3.05 µg/g	0.666 µg/g
(west side)	RDX	27.7 µg/g	0.587 µg/g
	2,4,6-TNT	156 µg/g	0.456 µg/g
	Lead	65 µg/g	53 µg/g
SU-18-SA-02-02	RDX	1.04 µg/g	0.587 µg/g
	2,4,6-TNT	3.01 µg/g	0.456 µg/g
	Lead	75.1 µg/g	53 µg/g

Sump 19, located under the west wall of Building 3-05-01, is 7 feet 3 inches by 7 feet 3 inches by 6 feet with no outfall. The top of the sump is 47 inches above grade. The ground slopes to the east. Surface and at-depth (37 inches) samples were obtained from the east and west sides of the sump. Surface and at-depth (12 inches) sample were also obtained in a depressed area east of the sump. All samples obtained contained elevated levels of explosives (Table 20). The surface soil sample obtained in the low area contained a slightly elevated level of lead. Screening around the building confirms shallow, localized explosives and metals contamination.

Table 20. Contaminant Concentrations at Sump 19.

Sample No.	Contaminant	Concentration	Criteria
SU-19-SS-01-01	HMX	1.5 µg/g	0.666 µg/g
(west side)	RDX	18.2 µg/g	0.587 µg/g
	2,4,6-TNT	4.42 µg/g	0.456 µg/g
SU-19-SA-01-02	HMX	6.46 µg/g	0.666 µg/g
	RDX	6.1 µg/g	0.587 µg/g
	2,4,6-TNT	1.23 µg/g	0.456 µg/g
SU-19-SS-02-01	HMX	10.2 µg/g	0.666 µg/g
(east side)	RDX	13.4 µg/g	0.587 µg/g
	2,4,6-TNT	9.82 µg/g	0.456 µg/g
SU-19-SA-02-02	HMX	3.66 µg/g	0.666 µg/g
	RDX	12.3 µg/g	0.587 µg/g
	1,3,5-TNB	1.11 µg/g	0.488 µg/g
	2,4,6-TNT	6.51 µg/g	0.456 µg/g
SU-19-SS-03-01	HMX	44.7 µg/g	0.666 µg/g
(low spot)	RDX	315 µg/g	0.587 µg/g
	2,4,6-TNT	161 µg/g	0.456 µg/g
	Lead	76.2 µg/g	53 µg/g
SU-19-SA-03-02	HMX	4.69 µg/g	0.666 µg/g
	RDX	16.3 µg/g	0.587 µg/g
	2,4,6-TNT	4.3 µg/g	0.456 µg/g

1.3.11 Building 3A-50-1

Sump 20 is located on the north side of Building 3A-50-1 in shed 3A-140-3. Building 3A-50-1 is a TNT screening building where screening and inspection of explosives occurred. Wastewater from weekly washdown of equipment, ceilings, walls, and floors are collected in the sump.

The sump is 6 feet by 9 feet by 3 feet with the top of the sump 14 inches above grade. An outfall pipe is located in the northwest corner of the sump. Surface and at-depth (34 inches) samples were obtained below the outfall and on the southeast corner of the sump. Samples were obtained in a depressed area north of the outfall pipe. Explosives were detected in all samples except the surface sample in the depressed area (Table 21). Low levels of metals were detected in all soil samples except surface soils obtained from the outfall and depressed area. This area was included during the screening effort performed as part of the Phase I RI/FS study, and the screening results confirm localized surface and shallow metals and explosives contamination.

Table 21. Contaminant Concentrations at Sump 20.

Sample No.	Contaminant	Concentration	Criteria
SU-20-SS-01-01	2,4-DNT	11.8 µg/g	0.424 µg/g
(outfall)	RDX	3.03 µg/g	0.587 µg/g
	1,3,5-TNB	18.1 µg/g	0.488 µg/g
	2,4,6-TNT	5180 µg/g	0.456 µg/g
SU-20-SA-01-02	2,4-DNT	9.11 µg/g	0.424 µg/g
	RDX	1.63 µg/g	0.587 µg/g
	1,3,5-TNB	4.14 µg/g	0.488 µg/g
	2,4,6-TNT	1590 µg/g	0.456 µg/g
	Mercury	0.271 µg/g	0.155 µg/g
SU-20-SS-02-01	2,4,6-TNT	21.9 µg/g	0.456 µg/g
(southeast corner)	Lead	289 µg/g	53 µg/g
	Cadmium	5.0 µg/g	0.899 µg/g
SU-20-SA-03-02	2,4,6-TNT	2.3 µg/g	0.456 µg/g
(depressed area)			

1.3.12 Building 3A-50-2

Sump 21 is located at Building 3A-50-2, which is a TNT Screening Building. The sump is 6 feet by 9 feet by 3 feet, and the top is 8 inches above grade. There is no outfall pipe. Surface and at-depth samples (40 inches) were collected from the southeast corner and north side of the sump (Table 22). Analysis indicates no evidence of extensive metals or explosives contamination at this sump. Only one metal, antimony, was detected above the evaluation criteria. The RI metals and explosives screening of this area confirms that no large area of contamination appears to exist at this sump.

Table 22. Contaminant Concentrations at Sump 21.

Sample No.	Contaminant	Concentration	Criteria
SU-21-SS-01-01	Antimony	11.2 µg/g	3.57 µg/g

1.3.13 Building 5B-55

Two sumps located at Building 5B-55 were included in this study. Building 5B-55, which is a Finished Booster Rest House, is used to store TNT and/or tetryl. Cold tap water was used to wash down floors with the floor drains leading to the sump. Both sumps are 2 feet by 2 feet by 2 feet and constructed of 4-inch concrete.

Sump 22 is located on the southwest corner of the building, and the top is 18 inches above grade. A surface and at-depth (16 inches) sample was collected, below the outfall located on the southwest corner of the structure. The surface sample contained lead, cadmium, and zinc (Table 23). No contaminants above evaluation criteria were reported in the at-depth sample. A surface sample was also obtained in a ditch, which originates southeast of the sump. No contaminants were reported in the sample. A sample (06-SA-14-01) was obtained at this sump during the SI at a depth of 12 inches contained a low level of lead (83 µg/g). Screening in this

area during the Phase I RI indicated surface contamination of cadmium, lead, and zinc localized around the sump, and in a drainage ditch west of the sump.

Table 23. Contaminant Concentrations at Sump 22.

Sample No.	Contaminant	Concentration	Criteria
SU-22-SS-01-01	Cadmium	1.68 µg/g	0.899 µg/g
(outfall/west corner)	Lead	111 µg/g	53 µg/g
	Zinc	449 µg/g	133 µg/g

Sump 23 is located on the northwest side of Building 5B-55. The sump top is located 15 inches above grade. A sample (06-SA-13-01) collected at a depth of 12 inches during the SI contained above background concentrations of cadmium, chromium, copper, lead, and zinc (Table 24). Surface and at-depth (19 inches) samples were collected at the outfall pipe. Elevated levels of lead and cadmium were reported in the surface sample. Cadmium was reported in the at-depth sample. Surface and at-depth (12 inches) samples were obtained in a ditch west of the outfall. The surface sample contained cadmium. Screening of this sump during the Phase I RI confirms surface lead and cadmium contamination at the sump and in the drainage ditch located to the west.

Table 24. Contaminant Concentrations at Sump 23.

Sample No.	Contaminant	Concentration	Criteria
SU-23-SS-01-01	Cadmium	29.8 µg/g	0.899 µg/g
(outfall)	Lead	277 µg/g	53 µg/g
	Zinc	721 µg/g	133 µg/g
SU-23-SA-01-02	Cadmium	3.11 µg/g	0.899 µg/g
SU-23-SS-02-01 (ditch)	Cadmium	1.5 µg/g	0.899 µg/g

1.3.14 Building 5B-21

Building 5B-21 is a Detonator Service Magazine Building used to store TNT and/or tetryl. Cold tap water was used to wash down floors with the floor drains leading to Sump 24.

Sump 24 is located on the east side of Building 5B-21. The sump is 2 feet by 2 feet by 2 feet, and the top is 10 inches above grade. Surface and at-depth (24 inches) samples were obtained from the east and west sides. An outfall pipe is located on the east side of the sump. Both surface samples contained elevated levels of cadmium, copper, lead, and zinc (Table 25). No explosives were detected in the surface and subsurface samples. No contaminants were reported above the evaluation criteria in the at-depth samples. An SI sample (06-SA-15-01) collected at 12 inches at the sump contained levels of cadmium, copper, lead, and zinc above background. Screening around this sump during the RI confirms localized surface cadmium, lead, and zinc contamination.

Table 25. Contaminant Concentrations at Sump 24.

Sample No.	Contaminant	Concentration	Criteria
SU-24-SS-01-01	Cadmium	6.06 µg/g	0.899 µg/g
(outfall/east side)	Copper	57.3 µg/g	30.9 µg/g
	Lead	448 µg/g	53 µg/g
	Zinc	1440 µg/g	133 µg/g
SU-24-SS-02-01	Cadmium	1.99 µg/g	0.899 µg/g
(west side)	Lead	341 µg/g	53 µg/g
	Zinc	430 µg/g	133 µg/g

1.3.15 Building 5B-56

Sump 25 is 2 feet by 2 feet by 2 feet and located on the north side of Building 5B-56, which is a Tetryl Pellet Magazine Building. Tetryl was stored in this building. Tap water was used to wash down the building.

The sump has an outfall pipe on the west side, and the top is 12 inches above grade. Surface and at-depth (22 inches) samples were obtained on both the east and west sides of the sump. Both surface samples contained cadmium, lead, and zinc (Table 26). No contaminants were reported above the evaluation criteria in the at-depth samples. No explosives were reported in either the surface or subsurface samples. A SI sample (06-SA-16-01) obtained from the sump contained levels of cadmium, copper, and zinc above background. Results of this study indicate localized, surface lead and cadmium contamination at this sump.

Table 26. Contaminant Concentrations at Sump 25.

Sample No.	Contaminant	Concentration	Criteria
SU-25-SS-01-01	Cadmium	1.4 µg/g	0.899 µg/g
(east side)	Lead	137 µg/g	53 µg/g
	Zinc	290 µg/g	133 µg/g
SU-25-SS-02-01	Cadmium	2.89 µg/g	0.899 µg/g
(outfall/west side)	Lead	329 µg/g	53 µg/g
	Zinc	913 µg/g	133 µg/g

1.3.16 Building 5B-25

Sump 26 is located on the west side of Building 5B-25, which is a Tetryl Service Magazine Building. The building was used to store tetryl. Tap water was used to clean the building.

The 2 feet by 2 feet by 2 feet sump has an outfall pipe on the east side. The top is 10 inches above grade. Surface and at-depth (24 inches) samples were obtained on the west and south sides of the sump. The samples collected on the west side of the sump contained cadmium, lead, and zinc (Table 27). No contaminants above detection limits were reported for the samples obtained from the south side of the sump.

Table 27. Contaminant Concentrations at Sump 26.

Sample No.	Contaminant	Concentration	Criteria
SU-26-SS-01-01	Cadmium	3.89 µg/g	0.899 µg/g
(west side)	Lead	181 µg/g	53 µg/g
	Zinc	1190 µg/g	133 µg/g
SU-26-SA-01-02	Cadmium	2.06 µg/g	0.899 µg/g
	Lead	98.6 µg/g	53 µg/g
	Zinc	264 µg/g	133 µg/g

1.3.17 Building 5B-27

Sump 27 is located on the west side of Building 5B-27, a Blended Tetryl Rest House. The building is used for storing tetryl and/or TNT. The floors were periodically washed down using cold tap water.

The sump is 2 feet by 2 feet by 2 feet, and the top is 10 inches above grade. Surface and at-depth (24 inches) samples were collected on both the north and south sides of the sump. An outfall pipe is located on the south side. Low levels of cadmium, lead, and zinc were detected in both surface samples (Table 28). No contaminants above evaluation criteria were reported in the at-depth samples. No explosives were found in either the surface or subsurface samples collected at this sump.

Table 28. Contaminant Concentrations at Sump 27.

Sample No.	Contaminant	Concentration	Criteria
SU-27-SS-01-01	Cadmium	1.65 µg/g	0.899 µg/g
(north side)	Lead	70.7 µg/g	53 µg/g
	Zinc	232 µg/g	133 µg/g
SU-27-SS-02-01	Cadmium	1.48 µg/g	0.899 µg/g
(south side)	Lead	258 µg/g	53 µg/g
	Zinc	396 µg/g	133 µg/g

1.3.18 Building 5A-21

Sump 28 is located on the south side of Building 5A-21, a Finished Booster Rest House. The building is used to store TNT and/or tetryl. Tap water was used to clean the building.

The sump is 2 feet by 2 feet by 2 feet, with the top 10 inches above grade and an outfall pipe located on the south side of the structure. Surface and at-depth (24 inches) samples were obtained on the north and south sides of the sump. Elevated levels of cadmium, lead, and zinc were reported in both surface samples (Table 29). Arsenic was found in the at-depth sample on the north side of the sump. Lead was found in the at-depth sample on the south side. Contaminant levels were considerably higher on the south side where the outfall is located.

Table 29. Contaminant Concentrations at Sump 28.

Sample No.	Contaminant	Concentration	Criteria
SU-28-SS-01-01	Cadmium	3.42 µg/g	0.899 µg/g
(north side)	Copper	35.2 µg/g	30.9 µg/g
	Lead	494 µg/g	53 µg/g
	Zinc	1130 µg/g	133 µg/g

Table 29. Contaminant Concentrations at Sump 28 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-28-SA-01-02	Arsenic	92 µg/g	30 µg/g
SU-28-SS-02-01	Cadmium	2.44 µg/g	0.899 µg/g
(outfall/south side)	Lead	1050 µg/g	53 µg/g
	Zinc	634 µg/g	133 µg/g
SU-28-SA-02-02	Lead	716 µg/g	53 µg/g

1.3.19 Building 5A-56

Sump 29 is located on the north side of Building 5A-56, a Tetryl Pellet Magazine. The building was used to store tetryl. Periodically, cold tap water was used to rinse down the building.

The sump is 2 feet by 2 feet by 2 feet with the top 8 inches above grade. Surface and at-depth (26 inches) samples were collected under the outfall located on the west side of the sump, and on the east side of the sump. Low levels of metals and explosives were detected in all four samples (Table 30).

Table 30. Contaminant Concentrations at Sump 29.

Sample No.	Contaminant	Concentration	Criteria
SU-29-SS-01-01	2,4,6-TNT	0.929 µg/g	0.456 µg/g
(east side)	Cadmium	3.35 µg/g	0.899 µg/g
SU-29-SS-01-01	Lead	188 µg/g	53 µg/g
	Zinc	808 µg/g	133 µg/g
SU-29-SA-01-02	2,4,6-TNT	1.88 µg/g	0.456 µg/g
	Cadmium	1.33 µg/g	0.899 µg/g

Table 30. Contaminant Concentrations at Sump 29 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-29-SS-02-01	2,4,6-TNT	4.32 µg/g	0.456 µg/g
(outfall/west side)	Cadmium	2.25 µg/g	0.899 µg/g
	Lead	155 µg/g	53 µg/g
	Zinc	684 µg/g	133 µg/g
SU-29-SA-02-02	2,4,6-TNT	0.75 µg/g	0.456 µg/g

1.3.20 Building 5A-25

Sump 30 is located on the west side of Building 5A-25, a Tetryl Service Magazine. The building is used for storage of tetryl and/or TNT. Cold tap water was used for washing down the building.

The sump is 2 feet by 2 feet by 2 feet and is 8 inches above grade. Surface and at-depth (23 inches) samples were obtained from below the outfall located on the west side, and from the east side. Cadmium, lead, and zinc were reported in both surface samples (Table 31). The at-depth sample taken on the west side below the outfall contained cadmium, copper, and zinc. Metals screening conducted around the sump during the Phase I RI/FS study confirmed localized, surface metals contamination at the sump. No explosives were found in either the surface or subsurface samples collected around the sump.

Table 31. Contaminant Concentrations at Sump 30.

Sample No.	Contaminant	Concentration	Criteria
SU-30-SS-01-01	Cadmium	1.51 µg/g	0.899 µg/g
(east side)	Lead	138 µg/g	53 µg/g
	Zinc	277 µg/g	133 µg/g

Table 31. Contaminant Concentrations at Sump 30 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-30-SS-02-01	Antimony	8.97 µg/g	3.57 µg/g
(outfall/west side)	Cadmium	1.64 µg/g	0.899 µg/g
	Lead	137 µg/g	53 µg/g
	Zinc	384 µg/g	133 µg/g
SU-30-SA-02-02	Cadmium	1.53 µg/g	0.899 µg/g
	Copper	83.3 µg/g	30.9 µg/g
	Zinc	254 µg/g	133 µg/g

1.3.21 Building 6-19

Sump 31 is located at Building 6-19, which is a Black Powder Dry House. The building was used to store black powder. Cold tap water was used to periodically wash down the building.

The sump is 2 feet by 2 feet by 2 feet and the top is 13 inches above grade. A bottom discharge pipe is located on the west side of the sump. The surface and at-depth (24 inches) samples obtained below the outfall contained low levels of RDX (Table 32). A surface sample obtained in a low area a few feet southeast of the sump contained RDX. No contaminants above evaluation criteria were reported in the at-depth (12 inches) sample obtained in the low area. No metals were found in either the surface or subsurface samples collected at this sump.

Table 32. Contaminant Concentrations at Sump 31.

Sample No.	Contaminant	Concentration	Criteria
SU-31-SS-01-01 (outfall/west side)	RDX	1.68 µg/g	0.587 µg/g
SU-31-SA-01-02	RDX	1.28 µg/g	0.587 µg/g
SU-31-SS-02-01 (low area)	RDX	1.81 µg/g	0.587 µg/g

1.3.22 Building 6-98

Sump 32 is located on the east side of Building 6-98, which houses the Black Powder and Delay Compressor Drying Oven. Drying of black powder and delay compressors occurs at this building. Periodic wash downs occur in the building utilizing cold tap water.

The sump is 2 feet by 2 feet by 2 feet with the top 6 inches above grade. Surface and at-depth (28 inches) samples were obtained below the outfall and at the northwest corner of the sump. All four samples contained elevated levels of metals (Table 33). Significantly high levels of mercury were reported in the at-depth samples, and the surface sample taken at the outfall. No explosives were detected in either the surface or subsurface samples obtained at the sump.

Table 33. Contaminant Concentrations at Sump 32.

Sample No.	Contaminant	Concentration	Criteria
SU-32-SS-01-01	Antimony	14.1 µg/g	3.57 µg/g
(outfall)	Cadmium	1.81 µg/g	0.899 µg/g
	Chromium	70.7 µg/g	48 µg/g
	Copper	117 µg/g	30.9 µg/g
	Lead	612 µg/g	53 µg/g
	Mercury	131 µg/g	0.155 µg/g
	Zinc	623 µg/g	133 µg/g
SU-32-SA-01-02	Antimony	99.6 µg/g	3.57 µg/g
	Copper	1790 µg/g	30.9 µg/g
	Mercury	1920 µg/g	0.155 µg/g
SU-32-SA-01-02	Zinc	286 µg/g	133 µg/g
SU-32-SS-02-01	Cadmium	0.957 µg/g	0.899 µg/g
(northwest corner)	Chromium	74.7 µg/g	48 µg/g
	Copper	53 µg/g	30.9 µg/g
	Lead	886 µg/g	53 µg/g
	Mercury	5.66 µg/g	0.155 µg/g
	Zinc	210 µg/g	133 µg/g

Table 33. Contaminant Concentrations at Sump 32 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-32-SA-02-02	Copper	143 µg/g	30.9 µg/g
	Mercury	852 µg/g	0.155 µg/g

1.3.23 Building 6-96

Sump 33 is located on the north side of Building 6-96, which is an RDX Pellet Service Magazine. The building, used for storing RDX pellets, was periodically washed down with cold tap water.

The top of this 2 feet by 2 feet by 2 feet structure is 12 inches above grade. Surface and at-depth (22 inches) samples were collected below the outfall on the north side of the sump, and on the south side. Additionally, surface and at-depth (12 inches) samples were obtained from a drainage area north of the sump. Elevated levels of metals were reported in all samples (Table 34). Significantly high levels of lead and mercury were reported in all six samples. No explosives were reported in the samples collected at Sump 33.

Table 34. Contaminant Concentrations at Sump 33.

Sample No.	Contaminant	Concentration	Criteria
SU-33-SS-01-01	Antimony	329 µg/g	3.57 µg/g
(outfall/north side)	Lead	6120 µg/g	53 µg/g
	Mercury	78.9 µg/g	0.155 µg/g
SU-33-SA-01-02	Antimony	41.4 µg/g	3.57 µg/g
	Lead	421 µg/g	53 µg/g
	Mercury	9.45 µg/g	0.155 µg/g

Table 34. Contaminant Concentrations at Sump 33 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-33-SS-02-01	Chromium	155 µg/g	48 µg/g
(south side)	Lead	984 µg/g	53 µg/g
	Mercury	12.9 µg/g	0.155 µg/g
	Zinc	319 µg/g	133 µg/g
SU-33-SA-02-02	Lead	113 µg/g	53 µg/g
SU-33-SS-03-01	Copper	58.9 µg/g	30.9 µg/g
(drainage area)	Lead	12,700 µg/g	53 µg/g
	Mercury	120 µg/g	0.155 µg/g
SU-33-SA-03-02	Lead	2630 µg/g	53 µg/g
	Mercury	20.2 µg/g	0.155 µg/g

1.3.24 Building 7-18

Sump 34 is located on the north side of Building 7-18, which is a Black Powder Service Magazine. The building was used to store black powder. Periodic wash downs of the building occurred, using cold tap water. Line 7 has been inactive since 1970.

The sump is 2 feet by 2 feet by 2 feet, with the top of the sump 10 inches above grade. An outfall pipe is located on the northwest corner of the sump. Surface and at-depth (24 inches) samples were obtained from below the outfall pipe and from the east side. The surface samples contained low level lead contamination (Table 35). Silver was detected in the subsurface sample obtained below the outfall pipe. 2,4,6-TNT was reported in the surface sample collected from the east side of the sump.

Table 35. Contaminant Concentrations at Sump 34.

Sample No.	Contaminant	Concentration	Criteria
SU-34-SS-01-01 (outfall)	Lead	61.1 µg/g	53 µg/g
SU-34-SA-01-02	Silver	1.02 µg/g	0.294 µg/g
SU-34-SS-02-01 (east side)	2,4,6-TNT	4.13 µg/g	0.456 µg/g
	Lead	90.5 µg/g	53 µg/g
	Zinc	465 µg/g	133 µg/g

1.3.25 Building 7-67

Sump 35 is located south of Building 7-67, which was a Percussions Element Service Magazine. The building was used to store black powder. Periodic wash downs of the building occurred, using cold tap water.

The 2 feet by 2 feet by 2 feet sump's top is 1 inch above grade, with an outfall pipe near the southeast corner. Surface and at-depth (33 inches) samples were collected on the north and south sides of the sump. Metals were detected in the surface and subsurface samples collected on the north side of the sump (Table 36). Antimony and lead were reported in the surface sample obtained from the south side of the sump. No explosives were detected in the samples collected around Sump 35.

Table 36. Contaminant Concentrations at Sump 35.

Sample No.	Contaminant	Concentration	Criteria
SU-35-SS-01-01	Copper	922 µg/g	30.9 µg/g
(north side)	Lead	69.4 µg/g	53 µg/g
SU-35-SA-01-02	Silver	1.34 µg/g	0.294 µg/g
SU-35-SS-02-01	Antimony	11.2 µg/g	3.57 µg/g
(south side)	Lead	264 µg/g	53 µg/g

1.3.26 Building 7-54-1

Sump 36 is located on the south side of Building 7-54-1, a Black Powder Rest House. The building was used to store black powder. Periodic wash down of the building occurred utilizing cold tap water.

The sump is 2 feet by 2 feet by 2 feet, and the top of the sump is 6 inches above grade. An outfall pipe is located on the southeast corner of the sump. Surface and at-depth (28 inches) samples were collected from the east and west sides of the sump. Relatively low levels of RDX and metals were detected in both surface and subsurface samples (Table 37).

Table 37. Contaminant Concentrations at Sump 36.

Sample No.	Contaminant	Concentration	Criteria
SU-36-SA-01-02	Cadmium	1.6 µg/g	0.899 µg/g
(east side)	Silver	1.11 µg/g	0.294 µg/g
SU-36-SS-02-01	RDX	0.889 µg/g	0.587 µg/g
(west side)	Cadmium	1.99 µg/g	0.899 µg/g
	Lead	122 µg/g	53 µg/g
	Zinc	472 µg/g	133 µg/g

Table 37. Contaminant Concentrations at Sump 36 (Continued).

Sample No.	Contaminant	Concentration	Criteria
SU-36-SA-02-02	RDX	0.843 µg/g	0.587 µg/g

1.3.27 Building 5A-28

A sump located adjacent to Building 5A-28 was removed during the summer of 1992. Although not originally part of the survey, metals and explosives screening samples (37-SU-01-E/M) were collected from the bottom of the sump pit. No contaminants were reported above detection in the sample.

1.3.28 Removed Sumps

In addition to the sump at Building 5A-28, three other sumps at Line 5A were subsequently removed and the pits sampled for metals and explosives.

Screening samples (38-SU-01-E/M) obtained at Building 5A-140-2 were found to contain 2,4,6-TNT at 3.0 µg/g. No metals were reported above evaluation criteria.

Two sumps were removed at Building 5A-140-3. Screening samples (39-SU-01-E/M) obtained from the west side of the building contained 2,4,6-TNT at 3.8 µg/g. No metals were reported above evaluation criteria.

Screening samples (40-SU-01-E/M) obtained from the east side of the building contained 2,4,6-TNT at 8.0 µg/g. A low level of cadmium was reported in this sample.

APPENDIX A

SAMPLES COLLECTED DURING SUMP INVESTIGATION

APPENDIX A

IAAP Sump Sample Number and Analysis Summary.

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	Analysis E	V	Location
1	SU01SS0101	1-50	6	X	X		Outfall
	SU01SA0102		34	X	X	X	Outfall
	SU01SS0201		6	X	X		SE corner
	SU01SAO202		34	X	X	X	SE corner
	SU01SS0301		6	X	X		Low spot, SE
	SU01SA0302		12	X	X		Low spot, SE
2	SU02SS0101	1-50	6	X	X		Outfall
	SU02SA0102		19	X	X		Outfall
	SU02SS0201		6	X	X		NE corner
	SU02SA0202		19	X	X		NE corner
	SU02SS0301		6	X	X		Low spot
	SU02SA0302		12	X	X		Low spot
3	SU03SS0101	1-08-1	6	X	X		Outfall
	SU03SA0102		28	X	X		Outfall
	SU03SS0201		6	X	X		SW corner
	SU03SA0202		28	X	X		SW corner
4	SU04SS0101	1-05-1	6	X	X		SE corner
	SU04SA0102		25	X	X		SE corner
	SU04SS0201		6	X	X		NW corner
	SU04SA0202		33	X	X	X	NW corner

APPENDIX A. (Continued)

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	Analysis E	Analysis V	Location
5	SU05SS0101	1-05-2	6	X	X		NW corner
	SU05SA0102		36	X	X	X	NW corner
	SU05SS0201		6	X	X		SE corner
	SU05SA0202		36	X	X	X	SE corner
6	SU06SS0101	1-01-2	6	X	X		Outfall
	SU06SS0201		6	X	X		West of sump
7	SU07SS0101	1-05-2	6	X	X		Outfall
	SU07SSO2O1		6	X	X		East side
8	SU08SS0101	1-40	6	X	X		West side
	SU08SA0102		19	X	X		West side
	SU08SS0201		6	X	X		North side
	SU08SA0202		34	X	X	X	North side
	SU08SS0301		6	X	X		South side
	SU08SA0302		34	X	X	X	South side
	SU08SS0401		6	X	X		East side
	SU08SA0402		43	X	X	X	East side
	SU08SS0501		6	X	X		Low spot
	SU08SA0502		12	X	X		Low spot
9	SU09SS0101	2-06-1	6	X	X		Outfall
	SU09SA0102		30	X	X		Outfall
	SU09SS0201		6	X	X		SW corner
	SU09SA0202		30	X	X		SW corner

APPENDIX A. (Continued)

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	E	V	Location
10	SU10SS0101	2-50	6	X	X		Outfall
	SU10SA0102		31	X	X	X	Outfall
	SU10SS0201		6	X	X		East side
	SU10SA0202		31	X	X	X	East side
11	SU11SS0101	2-05-2	6	X	X		NW corner
	SU11SS0201		6	X	X		SE corner
	SU11SS0301		6	X	X		Drainage
	SU11SA0302		12	X	X		Drainage
12	SU12SS0101	2-05-2	6	X	X		Outfall
	SU12SA0102		34	X	X	X	Outfall
	SU12SS0201		6	X	X		SE side
	SU12SA0202		34	X	X	X	SE side
	SU12SS0301		6	X	X		W drainage
	SU12SA0302		12	X	X		W drainage
13	SU13SS0101	2-05-1	6	X	X		Outfall
	SU13SA0102		35	X	X	X	Outfall
	SU13SS0201		6	X	X		East side
	SU13SA0202		35	X	X	X	East side
	SU13SS0301		6	X	X		West side
	SU13SA0302		35	X	X	X	West side
14	SU14SS0101	2-05-01	6	X	X		Outfall
	SU14SA0102		37	X	X	X	Outfall
	SU14SS0201		6	X	X		SW corner
	SU14SA0202		37	X	X	X	SW corner
	SU14SS0301		6	X	X		NE corner

APPENDIX A. (Continued)

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	E	V	Location
14	SU14SA0302		37	X	X	X	NE corner
	SU14SS0401		6	X	X		Drainage
	SU14SA0402		12	X	X		Drainage
15	SU15SS0101	2-05-1	6	X	X		Outfall
	SU15SA0102		33	X	X	X	Outfall
	SU15SS0201		6	X	X		West side
	SU15SA0202		33	X	X	X	West side
	SU15SS0301		6	X	X		SE corner
	SU15SA0302		33	X	X	X	SE corner
16	SU16SS0101	2-05-1	6	X	X		North side
	SU16SA0102		37	X	X	X	North side
	SU16SS0201		6	X	X		South side
	SU16SA0202		37	X	X	X	South side
17	SU17SS0101	3-05-1	6	X	X		NE corner
	SU17SA0102		32	X	X	X	NE corner
	SU17SS0201		6	X	X		NW corner
	SU17SA0202		32	X	X	X	NW corner
18	SU18SS0101	3-05-1	6	X	X		Outfall
	SU18SA0102		33	X	X	X	Outfall
	SU18SS0201		6	X	X		West side
	SU18SA0202		33	X	X	X	West side
19	SU19SS0101	3-05-1	6	X	X		West side
	SU19SA0102		37	X	X	X	West side
	SU19SS0201		6	X	X		East side

APPENDIX A. (Continued)

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	E	V	Location
19	SU19SA0202		37	X	X	X	East side
	SU19SS0301		6	X	X		Low spot
	SU19SA0302		12	X	X		Low spot
20	SU20SS0101	3A-50-1	6	X	X		Outfall
	SU20SA0102		34	X	X	X	Outfall
	SU20SS0201		6	X	X		SE corner
	SU20SA0202		34	X	X	X	SE corner
	SU20SS0301		6	X	X		Low spot
	SU20SA0302		12	X	X		Low spot
21	SU21SS0101	3A-50-2	6	X	X		SW corner
	SU21SA0102		40	X	X	X	SW corner
	SU21SS0201		6	X	X		North side
	SU21SA0202		40	X	X	X	North side
22	SU22SS0101	5B-55	6	X	X		Outfall
	SU22SA0102		16	X	X		Outfall
	SU22SS0201		6	X	X		Ditch
23	SU23SS0101	5B-55	6	X	X		Outfall
	SU23SA0102		19	X	X		Outfall
	SU23SS0201		6	X	X		Ditch
	SU23SA0202		19	X	X		Ditch
24	SU24SS0101	5B-21	6	X	X		East side
	SU24SA0102		24	X	X		East side
	SU24SS0201		6	X	X		West side
	SU24SA0202		24	X	X		West side

APPENDIX A. (Continued)

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	Analysis E	V	Location
25	SU25SS0101	5B-56	6	X	X		East side
	SU25SA0102		22	X	X		East side
	SU25SS0201		6	X	X		West side
	SU25SA0202		22	X	X		West side
26	SU26SS0101	5B-25	6	X	X		West side
	SU26SA0102		24	X	X		West side
	SU26SS0201		6	X	X		South side
	SU26SA0202		24	X	X		South side
27	SU27SS0101	5B-27	6	X	X		North side
	SU27SA0102		24	X	X		North side
	SU27SS0201		6	X	X		South side
	SU27SA0202		24	X	X		South side
28	SU28SS0101	5A-21	6	X	X		North side
	SU28SA0102		24	X	X		North side
	SU28SS0201		6	X	X		South side
	SU28SA0202		24	X	X		South side
29	SU29SS0101	5A-56	6	X	X		East side
	SU29SA0101		26	X	X		East side
	SU29SS0201		6	X	X		West side
	SU29SA0202		26	X	X		West side
30	SU30SS0101	5A-25	6	X	X		East side
	SU30SA0101		23	X	X		East side
	SU30SS0201		6	X	X		West side
	SU30SA0202		23	X	X		West side

APPENDIX A. (Continued)

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	Analysis E	Analysis V	Location
31	SU31SS0101	6-19	6	X	X		Outfall
	SU31SA0102		24	X	X		Outfall
	SU31SS0201		6	X	X		Ditch
	SU31SA0202		12	X	X		Ditch
32	SU32SS0101	6-98	6	X	X		Outfall
	SU32SA0102		28	X	X		Outfall
	SU32SS0201		6	X	X		NW corner
	SU32SA0202		28	X	X		NW corner
33	SU33SS0101	6-96	6	X	X		Outfall
	SU33SA0102		22	X	X		Outfall
	SU33SS0201		6	X	X		South side
	SU33SA0202		12	X	X		South side
	SU33SS0301		6	X	X		Drainage
	SU33SA0302		12	X	X		Drainage
34	SU34SS0101	7-18	6	X	X		Outfall
	SU34SA0102		24	X	X		Outfall
	SU34SS0201		6	X	X		East side
	SU34SA0202		24	X	X		East side
35	SU35SS0101	7-67	6	X	X		North side
	SU35SA0102		33	X	X	X	North side
	SU35SS0201		6	X	X		South side
	SU35SA0202		33	X	X	X	South side

APPENDIX A. (Continued)

Sump No.	Sample No.	Bldg. No.	Total Depth (in)	Analysis M	E	V	Location
36	SU36SS0101	7-54-1	6	X	X		East side
	SU36SA0102		28	X	X		East side
	SU36SS0201		6	X	X		West side
	SU36SA0202		28	X	X		West side

APPENDIX B

SUMP WATER DATA ABOVE EVALUATION CRITERIA

SUMP WATER DATA ABOVE EVALUATION CRITERIA
(µg/L)

GF*SEQ	Evaluation	JSRW*28	JSRW*31	JSRW*32	JSRW*33	JSRW*34	JSRW*35
ID	Criteria	SU06SW0102	SU07SW0101	SU12SW0101	SU13SW0101	SU10SW0101	SU16SW0101
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92
COL TIME		07:55	08:30	09:20	09:50	10:10	10:20
SAMPLE TYPE		SW	SW	SW	SW	SW	SW
SITE		RNSW	RNSW	RNSW	RNSW	RNSW	RNSW
STAT3		OK	OK	OK	OK	OK	OK
DEPTH FT		0	0	0	0	0	0
SAMPLING_TECHNIQUE		G	G	G	G	G	G
INSTALLATION_CODE		IA	IA	IA	IA	IA	IA
FIELD_I.D.-#		SW0102	SW0101	SW0101	SW0101	SW0101	SW0101
CHLOROETHANE	0.71						
2-CHLOROETHYLVINYL	0.5						
CHLOROFORM	3.2						
CHLOROMETHANE	0.67						
1-1-DICHLOROETHANE	0.5						
1-3-DINITROBENZENE	0.496	0.611	0.611	.47.3	0.611	6.11	6.11
2-4-DINITROTOLUENE	0.424			81.8		0.637	0.637
2-6-DINITROTOLUENE	0.524			0.738		0.738	0.738
HMX	0.66	1.21	6.6	496	223	150	542
NITROBENZENE	2.41			6.45	4.64	6.45	6.45
RDX	0.587	1.17	15.2	2240	1100	237	2370
TETRYL-TOTAL	0.731			1.6	15.6	1.6	15.6
1-3-5-TRINITROBENZEN	0.488				51.2	5.53	714
2-4-6-TRINITROTOLUEN	0.456			0.717	5650	1190	4270
CHROMIUM-TOTAL	6.02		7.21				
COPPER-TOTAL	8.09		8.26	9.8		38.5	244
IRON-TOTAL	3630						
POTASSIUM-_TOTAL	2840				3490		33100
SODIUM_(UG/L-NA)	17500						26500
THALLIUM	6.99	7	7	7	7	7	7
ZINC-TOTAL	22.6	60.6	268	122	84.3	82.9	406
LEAD-TOTAL	4.8	17.6	62.7	6.8		17.9	80.5
ARSENIC-TOTAL	4.48						7.89

GF*SEQ	Evaluation	JSRW*39	JSRW*40	JSUMP*131	JSUMP*191	JSUMP*192
ID	Criteria	SU06SW0101	SU06SW0103	SU15SW0101	SU17SW0101	SU18SW0101
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92	09/18/92
COL TIME		07:55	07:55	10:30	12:25	12:45
SAMPLE TYPE		SW	SW	SW	SW	SW
SITE		RNSW	RNSW	SUMP	SUMP	JSUMP
STAT3		OK	OK	OK	OK	OK
DEPTH FT		0	0	0	0	0
SAMPLING_TECHNIQUE		G	G	G	G	G
INSTALLATION_CODE		IA	IA	IA	IA	IA
FIELD_I.D.-#		SW0101	SW0103	SW0101	SW0101	SW0101
BENZENE-UG/L	1.1					
CHLOROETHANE	0.71					
2-CHLOROETHYLVINYL	0.5					
CHLOROFORM	3.2					
CHLOROMETHANE	0.67					
1-1-DICHLOROETHANE	0.5					
1-3-DINITROBENZENE	0.496	0.611	0.611	0.611	6.11	6.11
2-4-DINITROTOLUENE	0.424				0.637	80.7
2-6-DINITROTOLUENE	0.524				0.738	0.738
HMX	0.66	1.21	1.21	168	737	698
NITROBENZENE	2.41				6.45	6.45
RDX	0.587	1.17	1.17	235	5410	1690
TETRYL-TOTAL	0.731	1.6	1.6	1.6	1.6	15.6
1-3-5-TRINITROBENZEN	0.488				1.03	872
2-4-6-TRINITROTOLUEN	0.456	0.635	2.63	0.635	464	8010
CHROMIUM-TOTAL	6.02			13.3		
COPPER-TOTAL	8.09			111	60.8	18
IRON-TOTAL	3630			10900		
POTASSIUM-_TOTAL	2840					13200
SODIUM_(UG/L-NA)	17500					22700
THALLIUM	6.99	7	7	7	7	7
ZINC-TOTAL	22.6		63.8	241	1260	37.3
LEAD-TOTAL	4.8		16.7	86.3	55.5	5.5

GF*SEQ	Evaluation	JAYW*226	JAYW*227	JAYW*228	JAYW*229	JAYW*230	JAYW*231
ID	Criteria	RBWGW2501	RBWGW2601	RBWGW2701	RBWGW2801	RBWGW2901	RBWGW3001
COLL_DATE		09/21/92	09/21/92	09/21/92	09/21/92	09/21/92	09/21/92
COL_TIME		18:15	18:40	19:00	19:30	20:00	20:30
SAMPLE_TYPE		GW	GW	GW	GW	GW	GW
SITE		WELL	WELL	WELL	WELL	WELL	WELL
STAT3		OK	OK	OK	OK	OK	OK
DEPTH_FT		35	50	40	35	35	800
SAMPLING_TECHNIQUE		G	G	G	G	G	G
INSTALLATION_CODE		IA	IA	IA	IA	IA	IA
FIELD_I.D.-#		GW2501	GW2601	GW2701	GW2801	GW2901	GW3001
2-4-DINITROTOLUENE	0.064		0.149				
HMX	1.21	9.87	26.7				
RDX	1.17	15.5	27.5	1.25			
TETRYL-TOTAL	1.6	15.6					
1-3-5-TRINITROBENZEN	0.499	79.3	1.05	0.776			
2-4-6-TRINITROTOLUEN	0.635	4440					
COPPER-TOTAL	11.1						12.6
POTASSIUM-_TOTAL	2390	4140	2990	3410	2430	2440	3260
THALLIUM	6.99	7	7	7	7	7	7
ZINC-TOTAL	194				322	201	367
SILVER-TOTAL	4.6			5.51			
BIS(2-ETHYLHEXYL)_PH	4.8			4.9			
2-4-DICHLOROPHENOL	1	2.9	2.9	2.9	2.9	2.9	2.9
2-4-DIMETHYLPHENOL	2.1	5.8	5.8	5.8	5.8	5.8	5.8
2-4-DINITROTOLUENE	0.79		4.5	4.5	4.5	4.5	4.5

GF*SEQ	Evaluation	JSRW*26	JSRW*27	JSRW*29	JSRW*30	JAYW*276	JAYW*277
ID	Criteria	TRIP26	TRIP27	TRIP29	TRIP30	TRIP31	TRIP32
COLL_DATE		09/14/92	09/15/92	09/17/92	09/16/92	09/21/92	09/21/92
COL TIME				10:00		17:45	17:45
SAMPLE TYPE		SO	SO	GW	GW	GW	GW
SITE		TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
STAT3		OK	OK	OK	OK	OK	OK
DEPTH FT		0	0	0	0	0	0
SAMPLING_TECHNIQUE		G	G	G	G	G	G
INSTALLATION_CODE		IA	IA	IA	IA	IA	IA
FIELD_I.D.-#		TRIP26	TRIP27	TRIP29	TRIP30	TRIP32	TRIP32
CHLOROETHANE	0.71	1.9	1.9			33000	
2-CHLOROETHYLVINYL	0.5	0.71	0.71			4.5	
CHLOROFORM	3.2						
CHLOROMETHANE	0.67	3.2	3.2				
1-1-DICHLOROETHANE	0.5	0.68	0.68				
1-3-DINITROBENZENE	0.496						
HMX	0.66						
RDX	0.587						
TETRYL-TOTAL	0.731	1.6					
2-4-6-TRINITROTOLUEN	0.456	0.635					
MAGNESIUM_(UG/L-MG)	29800						
2-4-DINITROTOLUENE	0.79						
THALLIUM	6.99						
ZINC-TOTAL	22.6						
LEAD-TOTAL	4.8						

GF*SEQ	Evaluation	JSRW*37	JSRW*17
ID	Criteria	SUFB0201	SUFB0101
COLL_DATE		09/18/92	09/16/92
COL TIME		14:30	07:55
SAMPLE TYPE		SW	GW
SITE		FBLK	FBLK
STAT3		OK	OK
DEPTH FT		0	0
SAMPLING_TECHNIQUE		G	G
INSTALLATION_CODE		IA	IA
FIELD_I.D.-#		FB0201	FB0101
BENZENE-UG/L	1.1	1.22	
CHLOROETHANE	0.71	1.9	
2-CHLOROETHYLVINYL	0.5	0.71	
CHLOROFORM	3.2	11	9.9
CHLOROMETHANE	0.67	3.2	
1-1-DICHLOROETHANE	0.5	0.68	
1-3-DINITROBENZENE	0.496	0.611	
2-4-DINITROTOLUENE	0.424		
2-6-DINITROTOLUENE	0.524		
HMX	0.66	1.21	
NITROBENZENE	2.41		
RDX	0.587	1.17	
TETRYL-TOTAL	0.731	1.6	
1-3-5-TRINITROBENZEN	0.488		
2-4-6-TRINITROTOLUEN	0.456	0.635	
CHROMIUM-TOTAL	6.02		
COPPER-TOTAL	8.09		
IRON-TOTAL	3630		
POTASSIUM-_TOTAL	2840		
SODIUM_(UG/L-NA)	17500		
THALLIUM	6.99	7	7
ZINC-TOTAL	22.6		
LEAD-TOTAL	4.8		

GF*SEQ	Evaluation	JSRW*18	JSRW*19	JSRW*20	JSRW*21	JSRW*22	JSRW*23
ID	Criteria	SUEB0101	SUEB0201	SUEB0301	SUEB0401	SUEB0501	SUEB0601
COLL_DATE		09/16/92	09/16/92	09/16/92	09/17/92	09/17/92	09/17/92
COL_TIME		07:00	07:30	07:45	10:00	10:05	10:10
SAMPLE_TYPE		GW	GW	GW	GW	GW	GW
SITE		RNSW	RNSW	RNSW	RNSW	RNSW	RNSW
STAT3		OK	OK	OK	OK	OK	OK
DEPTH_FT		0	0	0	0	0	0
SAMPLING_TECHNIQUE		G	G	G	G	G	G
INSTALLATION_CODE		IA	IA	IA	IA	IA	IA
FIELD_I.D.-#		EB0101	EB0201	EB0301	EB0401	EB0501	EB0601
CHLOROFORM	7.4	9.2	8.7	8.8		7.8	8
THALLIUM	6.99	7	7	7	7	7	7

GF*SEQ	Evaluation	JSRW*24	JSRW*25	JSRW*36
ID	Criteria	SUEB0701	SUEB0801	SUEB0901
COLL_DATE		09/17/92	09/18/92	09/18/92
COL TIME		10:15	14:00	14:15
SAMPLE TYPE		GW	SW	SW
SITE		RNSW	RNSW	RNSW
STAT3		OK	OK	OK
DEPTH FT		0	0	0
SAMPLING_TECHNIQUE		G	G	G
INSTALLATION_CODE		IA	IA	IA
FIELD_I.D.-#		EB0701	EB0801	EB0901
CHLOROETHANE	0.71		1.9	1.9
2-CHLOROETHYLVINYL	0.5		0.71	0.71
CHLOROFORM	3.2	9	7.7	7.4
CHLOROMETHANE	0.67		3.2	3.2
1-1-DICHLOROETHANE	0.5		0.68	0.68
1-3-DINITROBENZENE	0.496		0.611	0.611
2-4-DINITROTOLUENE	0.424			
2-6-DINITROTOLUENE	0.524			
HMX	0.66		1.21	1.21
NITROBENZENE	2.41			
RDX	0.587		1.17	1.17
TETRYL-TOTAL	0.731		1.6	15.6
1-3-5-TRINITROBENZEN	0.488			371
2-4-6-TRINITROTOLUEN	0.456		0.635	5180
CHROMIUM-TOTAL	6.02			
COPPER-TOTAL	8.09			
IRON-TOTAL	3630			
POTASSIUM-_TOTAL	2840			22100
SODIUM_(UG/L-NA)	17500			
THALLIUM	6.99	7	7	7
ZINC-TOTAL	22.6			
LEAD-TOTAL	4.8			
ARSENIC-TOTAL	4.48			

APPENDIX C

SUMP SOIL DATA ABOVE EVALUATION CRITERIA

SUMP SOIL DATA ABOVE EVALUATION CRITERIA
(µg/g)

FG*SEQ	Evaluation	JSUMP*1	JSUMP*2	JSUMP*3	JSUMP*4	JSUMP*5	JSUMP*6
ID	Criteria	SU01SS0101	SU01SA0102	SU01SS0201	SU01SA0202	SU01SS0301	SU01SA0302
COLL_DATE		09/14/92	09/14/92	09/14/92	09/14/92	09/14/92	09/14/92
COLL_TIME		14:30	14:30	14:40	14:40	14:50	14:50
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.8	0.5	2.8	0.5	1
ANTIMONY	3.57	13.8	7.14	7.14	7.14	9.44	7.14
CADMIUM	0.899	2.28					
CALCIUM	64000	180000				175000	
CHROMIUM	48	57					
COPPER	30.9	72.2					
LEAD-SED	53	749		144			
MAGNESIUM	2790	8300		4740	2820	4900	3240
SILVER	0.294	0.589	0.589	0.589	0.841	0.589	0.589
SODIUM	327	345					
ZINC	133	531					

FG*SEQ		JSUMP*9	JSUMP*10	JSUMP*11	JSUMP*12	JSUMP*13	JSUMP*14
ID		SU02SS0101	SU02SA0102	SU02SS0201	SU02SA0202	SU02SS0301	SU02SA0302
COLL_DATE		09/14/92	09/14/92	09/14/92	09/14/92	09/14/92	09/14/92
COLL_TIME		14:30	14:45	15:00	15:15	15:30	15:45
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	1.6	0.5	1.6	0.5	1
2-4-6-TNT-SOIL	0.456			1.99			
ANTIMONY	3.57	7.14	7.14	7.14	7.14	7.14	7.14
LEAD-SED	53	64.6					
MAGNESIUM	2790	3430	3750	2830	4040	3000	
SILVER	0.294	0.589	0.589	0.589	0.782	0.589	0.589

FG*SEQ	Evaluation	JSUMP*16	JSUMP*17	JSUMP*18	JSUMP*19	JSUMP*20
ID	Criteria	SU03SS0202	SU03SS0101	SU03SA0102	SU03SS0201	SU03SA0202
COLL_DATE		09/15/92	09/15/92	09/15/92	09/15/92	09/15/92
COLL_TIME		09:30	09:00	09:10	09:20	09:40
SITE_TYPE		SURF	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	0.5	2.3	0.5	2.3
2-4-DNT-SOIL	0.424			0.678		
HMX-SOIL	0.666	34.4	1580	390	33	98.8
RDX-SOIL	0.587		3740	108		122
2-4-6-TNT-SOIL	0.456		9.18	1.67		2.03
ANTIMONY	3.57	7.14	22.8	12	7.14	10.4
BERYLLIUM	2.1		2.99			
CADMIUM	0.899	1.55	2.98	1.24	2.17	
CALCIUM	64000		69900	98400		136000
CHROMIUM	48		65.4			
COPPER	30.9	35.5	441	126		48.2
IRON	72000		93300			
LEAD-SED	53	97	977	232	77.9	127
MAGNESIUM	2790	12800	19000	27200	6730	23700
SILVER	0.294	0.589	0.767	0.589	0.589	0.589
SODIUM	327		772	384		329
THALLIUM	18.2		33	20.7		
ZINC	133		765	274		

FG*SEQ	Evaluation	JSUMP*21	JSUMP*23	JSUMP*24	JSUMP*25	JSUMP*26
ID	Criteria	SU04SS0102	SU04SS0101	SU04SA0102	SU04SS0201	SU04SA0202
COLL_DATE		09/15/92	09/15/92	09/15/92	09/15/92	09/15/92
COLL_TIME		10:20	10:20	10:30	10:40	10:50
SITE_TYPE		SURF	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	0.5	2.1	0.5	2.8
ANTIMONY	3.57	7.14	7.14	7.14	10.3	7.14
CADMIUM	0.899	3.19	2.06			
CALCIUM	64000				151000	
COPPER	30.9	33.3				
LEAD-SED	53	182	110		74.5	
MAGNESIUM	2790	4280	3450	4240	11300	4260
SILVER	0.294	0.589	0.783	0.589	0.589	0.589
SODIUM	327				345	
THALLIUM	18.2				21.6	
ZINC	133	191	143			

FG*SEQ	Evaluation	JSUMP*29	JSUMP*30	JSUMP*31	JSUMP*32
ID	Criteria	SU05SS0101	SU05SA0102	SU05SS0201	SU05SA0202
COLL_DATE		09/15/92	09/15/92	09/15/92	09/15/92
COLL_TIME		11:00	11:10	11:20	11:30
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	3	0.5	3
RDX-SOIL	0.587		4.21		
1-3-5-TNB-SOIL	0.488		20.9		
2-4-6-TNT-SOIL	0.456		9210		
ANTIMONY	3.57	7.14	7.14	7.14	7.14
CADMIUM	0.899		12	3.64	
LEAD-SED	53		151	55.3	
MAGNESIUM	2790	2860		2900	3070
SILVER	0.294	0.589	0.589	0.589	0.589

FG*SEQ	Evaluation	JSUMP*34	JSUMP*35	JSUMP*36	JSUMP*161
ID	Criteria	SU06SA0102	SU06SS0101	SU06SS0201	SU06SD0101
COLL_DATE		09/15/92	09/15/92	09/15/92	09/18/92
COLL_TIME		10:10	09:00	09:00	08:00
SITE_TYPE		BORE	SURF	SURF	SURF
DEPTH-FEET		1.3	0.5	0.5	0.5
HMX-SOIL	0.666			12.7	
RDX-SOIL	0.587		0.768	184	
2-4-6-TNT-SOIL	0.456		36.1	1.18	
ANTIMONY	3.57	7.14	7.14	7.14	7.14
BARIUM	363	2260	1430	550	529
CADMIUM	0.899		3.9	3.03	6.85
CHROMIUM	48		121	114	321
COPPER	30.9		146	60.3	182
IRON	72000				86000
LEAD-SED	53		2140	494	1100
MAGNESIUM	2790		6880	10800	18200
MERCURY	0.155		0.614	0.194	2.37
NICKEL	67.9				163
POTASSIUM	2750				3800
SILVER	0.294	0.589	0.964	0.589	0.589
SODIUM	327				731
ZINC	133		1400	745	1390

FG*SEQ	Evaluation	JSUMP*37	JSUMP*39	JSUMP*40	JSUMP*155	
ID	Criteria	SU07SS0102	SU07SS0101	SU07SS0201	SU07SD0101	
COLL_DATE		09/15/92	09/15/92	09/15/92	09/18/92	
COLL_TIME		09:15	09:15	09:15	08:35	
SITE_TYPE		SURF	SURF	SURF	SURF	
DEPTH-FEET		0.5	0.5	0.5	0.5	G
HMX-SOIL	0.666	25.4	302		195	
2-4-6-TNT-SOIL	0.456	5.46	2.33	1.07	0.886	
ANTIMONY	3.57	43.2	7.14	7.14	47.1	
BARIUM	363	13000	13300	3530	10400	
CADMIUM	0.899	22.5	20.6	2.92	69.5	
CHROMIUM	48	1530	424	84.4	1360	
COPPER	30.9	254	198	48.4	921	
IRON	72000				84100	
LEAD-SED	53	12700	2000	462	5610	
MAGNESIUM	2790	8090	9970	11500	40900	
MERCURY	0.155	0.825	0.852	0.468	1.54	
NICKEL	67.9				284	
SILVER	0.294	1.79	2.02	0.589	6.53	
SODIUM	327				765	
THALLIUM	18.2	26				
ZINC	133	2690	2590	450	7640	

FG*SEQ	Evaluation	JSUMP*43	JSUMP*44	JSUMP*45	JSUMP*46	JSUMP*47	JSUMP*48
ID	Criteria	SU08SS0101	SU08SA0102	SU08SS0201	SU08SA0202	SU08SS0301	SU08SA0302
COLL_DATE		09/15/92	09/15/92	09/15/92	09/15/92	09/15/92	09/15/92
COLL_TIME		10:40	10:45	10:50	11:00	10:45	10:50
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	1.6	0.5	2.8	0.5	2.8
HMX-SOIL	0.666	4.98	19.2	115	11.9	2.14	3.36
RDX-SOIL	0.587		4.32	3.18	107		3.99
ANTIMONY	3.57	7.14	7.14	16.5	7.14	7.14	7.14
CALCIUM	64000	131000		258000			84600
MAGNESIUM	2790	13600	7970	20300	5130	5850	10200
SILVER	0.294	0.589	0.589	5.89	0.589	0.589	0.589
SODIUM	327			381			

FG*SEQ	Evaluation	JSUMP*49	JSUMP*50	JSUMP*51	JSUMP*52
ID	Criteria	SU08SS0401	SU08SA0402	SU08SS0501	SU08SA0502
COLL_DATE		09/15/92	09/15/92	09/15/92	09/15/92
COLL_TIME		11:00	11:30	11:45	11:50
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	3.6	0.5	1
1-3-DINITROBENZENE	0.496			0.572	
2-4-DNT-SOIL	0.424			7.49	
HMX-SOIL	0.666	62.9	4.62	664	10.6
NITROBENZENE-SOIL	2.41			67.6	
RDX-SOIL	0.587	2.2	12.1	509	8.5
1-3-5-TNB-SOIL	0.488			106	
2-4-6-TNT-SOIL	0.456			10.4	
ANTIMONY	3.57	11.1	7.14	7.14	7.14
BARIUM	363			1160	
CADMIUM	0.899			1.17	
CALCIUM	64000	204000			
COPPER	30.9			32.2	
LEAD-SED	53	63.7			
MAGNESIUM	2790	19400	6820	3370	3380
SILVER	0.294	5.89	0.589	0.589	0.589
SODIUM	327	364			

FG*SEQ	Evaluation	JSUMP*55	JSUMP*56	JSUMP*57	JSUMP*58	JSUMP*180
ID	Criteria	SU09SS0101	SU09SA0102	SU09SS0201	SU09SA0202	SU09SD0101
COLL_DATE		09/15/92	09/15/92	09/15/92	09/15/92	09/18/92
COLL_TIME		13:30	13:35	13:30	13:35	10:45
SITE_TYPE		SURF	BORE	SURF	BORE	SURF
DEPTH-FEET		0.5	2.5	0.5	2.5	0.5
RDX-SOIL	0.587					1.15
2-4-6-TNT-SOIL	0.456					0.607
ANTIMONY	3.57	7.14	7.14	7.14	7.14	7.14
BARIUM	363					526
CADMIUM	0.899	1.31		1.89		5.33
CALCIUM	64000					72800
LEAD-SED	53	1360		533		1290
MAGNESIUM	2790	3650	3850	3890	4270	9520
POTASSIUM	2750					2880
SILVER	0.294	0.589	0.589	0.589	0.589	0.589
SODIUM	327					820
ZINC	133	317		271		1560

FG*SEQ	Evaluation	JSUMP*61	JSUMP*62	JSUMP*63	JSUMP*64
ID	Criteria	SU10SS0101	SU10SA0102	SU10SS0201	SU10SA0202
COLL_DATE		09/15/92	09/15/92	09/15/92	09/15/92
COLL_TIME		13:30	14:00	13:50	13:40
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.6	0.5	2.6
2-4-DNT-SOIL	0.424	0.638		0.616	
TETRYL-SED	0.731	7960	2.31		
1-3-5-TNB-SOIL	0.488	0.909		0.739	
2-4-6-TNT-SOIL	0.456	795	0.596	8.3	1.49
ANTIMONY	3.57	7.14	7.14	7.14	7.14
CALCIUM	64000	70100		129000	
COPPER	30.9			35	
LEAD-SED	53	259			
MAGNESIUM	2790	3710			
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	233			

FG*SEQ	Evaluation	JSUMP*65	JSUMP*67	JSUMP*68	JSUMP*69	JSUMP*70
ID	Criteria	SU11SS0401	SU11SS0101	SU11SS0201	SU11SS0301	SU11SA0302
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		08:55	08:30	08:35	08:30	08:35
SITE_TYPE		SURF	SURF	SURF	SURF	BORE
DEPTH-FEET		0.5	0.5	0.5	0.5	1
1-3-DINITROBENZENE	0.496	2.55				
2-4-DNT-SOIL	0.424	2.82				
HMX-SOIL	0.666	784	1250	711	7.17	6.46
RDX-SOIL	0.587	5480	5.87	56.4	5.87	4.16
1-3-5-TNB-SOIL	0.488	348		0.897		
2-4-6-TNT-SOIL	0.456	1460		77.6	8.31	0.914
ANTIMONY	3.57	7.14	15.4	16.5	7.14	7.14
CADMIUM	0.899	1.33			1.12	
CALCIUM	64000		315000	270000	68300	
CHROMIUM	48				149	
LEAD-SED	53		55.8		648	
MAGNESIUM	2790	4650	8950	20500	4160	
SILVER	0.294	0.589	5.89	5.89	0.589	0.589
SODIUM	327		346	376		

FG*SEQ	Evaluation	JSUMP*73	JSUMP*74	JSUMP*75	JSUMP*76	JSUMP*77	JSUMP*78
ID	Criteria	SU12SS0101	SU12SA0102	SU12SS0201	SU12SA0202	SU12SS0301	SU12SA0302
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		09:15	09:20	09:15	09:20	09:30	09:35
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.8	0.5	2.8	0.5	1
2-4-DNT-SOIL	0.424	8.48					
HMX-SOIL	0.666	590	1.81	6710	2.57	701	8.45
RDX-SOIL	0.587	34.4		1450		11.7	
1-3-5-TNB-SOIL	0.488	0.526					
2-4-6-TNT-SOIL	0.456	101	0.508	22.8		34.2	2.93
ANTIMONY	3.57	7.14	7.14	11.3	7.14	11.9	7.14
CADMIUM	0.899	2.34		13.1		5.88	
CALCIUM	64000			83000		183000	
CHROMIUM	48	102		208		49.3	
COPPER	30.9	41.8		468		31.3	
LEAD-SED	53	217		989		177	
MAGNESIUM	2790	4820		6740	3200	7130	
MERCURY	0.155	1.03		6.53		1.52	
SILVER	0.294	0.589	0.589	0.589	0.589	0.589	0.589
SODIUM	327			497			
THALLIUM	18.2			19.8			
ZINC	133	496		809		269	
ACETONE	0.017				0.064		

FG*SEQ	Evaluation	JSUMP*81	JSUMP*82	JSUMP*83	JSUMP*84	JSUMP*85	JSUMP*86
ID	Criteria	SU13SS0101	SU13SA0102	SU13SS0201	SU13SA0202	SU13SS0301	SU13SA0302
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		10:10	10:20	10:30	10:40	10:50	11:00
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.9	0.5	2.9	0.5	2.9
HMX-SOIL	0.666	388	16	84.4	2.67	123	5.61
RDX-SOIL	0.587	921	9	8.73	2.7	774	15
1-3-5-TNB-SOIL	0.488	48.8	1.15	5.51	0.614	3.89	
2-4-6-TNT-SOIL	0.456	165	15.7	71.2	6.51	286	88
ANTIMONY	3.57	12	7.14	10.3	7.14	7.14	7.14
BARIUM	363	991					
CADMIUM	0.899	2.82		1.73			
CALCIUM	64000	77200		144000		97100	
CHROMIUM	48	96.1					
COPPER	30.9	89.2		68.2			
LEAD-SED	53	462	123	673		56.8	
MAGNESIUM	2790	6810	4080	9840	4100	7410	3340
MERCURY	0.155	158	230	10.4	1.08	35.2	130
SILVER	0.294	0.589	0.589	0.589	0.827	0.589	0.758
SODIUM	327	356		414		361	
ZINC	133	647	141	383		164	

FG*SEQ	Evaluation	JSUMP*89	JSUMP*90	JSUMP*91	JSUMP*92	JSUMP*93	JSUMP*94
ID	Criteria	SU14SS0101	SU14SA0102	SU14SS0201	SU14SA0202	SU14SS0301	SU14SA0302
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		08:40	08:50	09:00	09:10	09:20	09:30
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	3.1	0.5	3.1	0.5	3.1
HMX-SOIL	0.666	2680	11.3	10.8	90.6	1.96	2.47
RDX-SOIL	0.587	7240	52.1	63.2	275	7.29	1.2
1-3-5-TNB-SOIL	0.488	21.2	4.87	0.561			
2-4-6-TNT-SOIL	0.456	6900	23.7	27.5	20.1		0.508
ANTIMONY	3.57	7.14	7.14	7.14	7.14	7.14	7.14
CALCIUM	64000	67700					
MAGNESIUM	2790	3150	4500	13000	3550	12600	
SELENIUM-SED	0.612				0.732		0.643
SILVER	0.294	0.589	0.791	0.589	0.819	0.589	0.589
SODIUM	327	337					

FG*SEQ	Evaluation	JSUMP*99	JSUMP*100	JSUMP*101	JSUMP*102	JSUMP*103	JSUMP*104
ID	Criteria	SU15SS0101	SU15SA0102	SU15SS0201	SU15SA0202	SU15SS0301	SU15SA0302
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		11:30	11:40	11:50	12:00	12:10	12:20
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.8	0.5	2.8	0.5	2.8
2-4-DNT-SOIL	0.424					1.54	
HMX-SOIL	0.666	1.29	5.46	99.2	2.25	352	14.7
RDX-SOIL	0.587		4.72	65.8	1.39	1450	43.7
1-3-5-TNB-SOIL	0.488		1.26	1.43	1.44	2.55	
2-4-6-TNT-SOIL	0.456	2.45	22.9	15.3	3.81	36.9	3.05
ANTIMONY	3.57	7.14	7.14	9.37	7.14	7.14	7.14
CADMIUM	0.899	15.3		5.98		2.05	
CHROMIUM	48	204		162		99.3	
COPPER	30.9	114		82.9		52.9	
LEAD-SED	53	1390		1260	86.6	182	170
MAGNESIUM	2790	3780		4540			2920
MERCURY	0.155	4.58		3.22		0.315	
SELENIUM-SED	0.612		0.766		0.692		
SILVER	0.294	0.589	0.589	0.589	0.589	0.589	0.589
ZINC	133	1180		983		549	

FG*SEQ	Evaluation	JSUMP*107	JSUMP*108	JSUMP*109	JSUMP*110
ID	Criteria	SU16SS0101	SU16SA0102	SU16SS0201	SU16SA0202
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		10:45	10:55	10:45	10:55
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	3.1	0.5	3.1
RDX-SOIL	0.587			7.14	
2-4-6-TNT-SOIL	0.456		1.55		
ANTIMONY	3.57	7.14	7.14	7.14	7.14
CADMIUM	0.899	6.32		1.09	
CALCIUM	64000	75500			
COPPER	30.9	38.6	49.6		
MAGNESIUM	2790	10800			
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	377			

FG*SEQ	Evaluation	JSUMP*114	JSUMP*115	JSUMP*116	JSUMP*217
ID	Criteria	SU17SA0102	SU17SS0201	SU17SA0202	SU17SS0101
COLL_DATE		09/18/92	33865	09/18/92	09/18/92
COLL_TIME		12:10	0.510416667	12:25	12:00
SITE_TYPE		BORE	SURF	BORE	SURF
DEPTH-FEET		2.7	0.5	2.7	0.5
HMX-SOIL	0.666	0.757			3.52
RDX-SOIL	0.587	6.57	0.912	2.6	1.99
2-4-6-TNT-SOIL	0.456	4.51	1.48	2.73	8.6
ANTIMONY	3.57	7.14	7.14	7.14	7.14
CADMIUM	0.899		1.53		1.57
COPPER	30.9		51.8		
LEAD-SED	53		255		
MAGNESIUM	2790	3110		3110	
SILVER	0.294	0.589	0.589	0.589	0.589

FG*SEQ	Evaluation	JSUMP*119	JSUMP*120	JSUMP*121	JSUMP*122	/wdr
ID	Criteria	SU18SS0101	SU18SA0102	SU18SS0201	SU18SA0202	
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92	
COLL_TIME		12:35	12:45	12:50	13:00	
SITE_TYPE		SURF	BORE	SURF	BORE	
DEPTH-FEET		0.5	2.8	0.5	2.8	
2-4-DNT-SOIL	0.424	2.17				
HMX-SOIL	0.666	220		3.05		
RDX-SOIL	0.587	31	0.683	27.7	1.04	
1-3-5-TNB-SOIL	0.488	2.89		0.511		
2-4-6-TNT-SOIL	0.456	946	1.45	156	3.01	
ANTIMONY	3.57	13.4	7.14	7.14	7.14	
CADMIUM	0.899	2.6		0.975		
CALCIUM	64000	287000				
COPPER	30.9	39				
LEAD-SED	53			65	75.1	
MAGNESIUM	2790	5370		8380	5870	
MERCURY	0.155	0.958				
SILVER	0.294	5.89	0.589	0.589	0.589	
SODIUM	327	340				
ZINC	133	424		155		

FG*SEQ	Evaluation	JSUMP*125	JSUMP*126	JSUMP*127	JSUMP*128	JSUMP*129	JSUMP*130
ID	Criteria	SU19SS0101	SU19SA0102	SU19SS0201	SU19SA0202	SU19SS0301	SU19SA0302
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME		13:10	13:15	13:25	13:30	13:40	13:45
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	3.1	0.5	3.1	0.5	1
HMX-SOIL	0.666	1.5	6.46	10.2	3.66	44.7	4.69
RDX-SOIL	0.587	18.2	6.1	13.4	12.3	315	16.3
1-3-5-TNB-SOIL	0.488			0.969	1.11	0.986	
2-4-6-TNT-SOIL	0.456	4.42	1.23	9.82	6.51	161	4.3
ANTIMONY	3.57	15.7	7.14	7.14	7.14	7.14	7.14
CALCIUM	64000	350000					
LEAD-SED	53					76.2	
MAGNESIUM	2790		2830	3160	3680	2910	
SILVER	0.294	5.89	0.589	0.589	0.589	0.589	0.589
SODIUM	327	344	366	457	351		

FG*SEQ	Evaluation	JSUMP*133	JSUMP*134	JSUMP*135	JSUMP*136	JSUMP*137	JSUMP*138
ID	Criteria	SU20SS0101	SU20SA0102	SU20SS0201	SU20SA0202	SU20SS0301	SU20SA0302
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		14:20	14:25	14:30	14:35	14:40	14:45
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.8	0.5	2.8	0.5	1
2-4-DNT-SOIL	0.424	11.8	9.11				
RDX-SOIL	0.587	3.03	1.63				
1-3-5-TNB-SOIL	0.488	18.1	4.14				
2-4-6-TNT-SOIL	0.456	5180	1590	21.9		5.12	2.3
ANTIMONY	3.57	7.14	7.14	7.14	7.14	7.14	7.14
CADMIUM	0.899				5		
CALCIUM	64000					107000	
LEAD-SED	53	295		289			
MAGNESIUM	2790	4850	2990	4940	4300	11900	
MERCURY	0.155		0.271				
SILVER	0.294	0.589	0.842	0.589	0.822	0.589	0.589
ZINC	133	302		178			

FG*SEQ	Evaluation	JSUMP*141	JSUMP*142	JSUMP*143	JSUMP*144
ID	Criteria	SU21SS0101	SU21SA0102	SU21SS0201	SU21SA0202
COLL_DATE		09/16/92	09/16/92	09/16/92	09/16/92
COLL_TIME		13:40	13:50	14:00	14:10
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	3.3	0.5	3.3
ANTIMONY	3.57	11.2	7.14	7.14	7.14
CALCIUM	64000	173000		186000	
LEAD-SED	53	529			
MAGNESIUM	2790	13300	3880	9450	8330
SILVER	0.294	0.589	0.589	2.95	0.589
SODIUM	327	455			
ZINC	133	305			

FG*SEQ	Evaluation	JSUMP*147	JSUMP*148	JSUMP*149	JSUMP*150
ID	Criteria	SU22SS0101	SU22SA0102	SU22SS0201	SU22SS0202
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		10:40	10:50	11:00	11:00
SITE_TYPE		SURF	BORE	SURF	SURF
DEPTH-FEET		0.5	1.3	0.5	0.5
ANTIMONY	3.57	7.14	7.14	7.14	7.14
CADMIUM	0.899	1.68			1.03
LEAD-SED	53	111			
MAGNESIUM	2790		3530	4230	4480
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	449			

FG*SEQ	Evaluation	JSUMP*151	JSUMP*152	JSUMP*153	JSUMP*154
ID	Criteria	SU23SS0101	SU23SA0102	SU23SS0201	SU23SA0202
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		11:10	11:10	11:10	11:20
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	1.6	0.5	1.6
ANTIMONY	3.57	7.14	7.14	7.14	7.14
BARIUM	363			441	
CADMIUM	0.899	29.8	3.11	1.5	
LEAD-SED	53	277			
MAGNESIUM	2790	3710	3860	4590	5030
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	721			

FG*SEQ	Evaluation	JSUMP*156	JSUMP*157	JSUMP*158	JSUMP*159	JSUMP*160
ID	Criteria	SU24SA0103	SU24SS0101	SU24SA0102	SU24SS0201	SU24SA0202
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		10:45	10:40	10:45	10:55	11:00
SITE_TYPE		BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		2	0.5	2	0.5	2
ANTIMONY	3.57	7.14	7.14	7.14	7.14	7.14
CADMIUM	0.899		6.06		1.99	
COPPER	30.9		57.3			
LEAD-SED	53		448		341	
MAGNESIUM	2790	3140	7350		6960	
SELENIUM-SED	0.612		0.653			
SILVER	0.294	0.589	0.589	0.794	0.589	0.589
ZINC	133		1440		430	

FG*SEQ	Evaluation	JSUMP*162	JSUMP*163	JSUMP*164	JSUMP*165	JSUMP*166	JSUMP*167
ID	Criteria	SU25SS0103	SU25SS0101	SU25SA0102	SU25SS0201	SU25SA0202	SU25SS0203
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		10:40	10:40	10:45	10:55	11:00	10:55
SITE_TYPE		SURF	SURF	BORE	SURF	BORE	SURF
DEPTH-FEET		0.5	0.5	1.8	0.5	1.8	0.5
ANTIMONY	3.57	7.14	7.14	7.14	7.14	7.14	7.14
BARIUM	363					410	
CADMIUM	0.899	1.57	1.4		2.89	1.31	2.83
LEAD-SED	53	134	137		329		352
MAGNESIUM	2790	3850	3690	3500	3360	3650	2960
NICKEL	67.9					68.3	
SILVER	0.294	0.589	0.589	0.589	0.589	0.589	0.589
ZINC	133	298	290		913		793

FG*SEQ	Evaluation	JSUMP*169	JSUMP*170	JSUMP*171	JSUMP*172	JSUMP*173
ID	Criteria	SU26SS0101	SU26SA0102	SU26SS0201	SU26SA0202	SU26SS0102
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		12:45	12:50	12:55	13:00	12:45
SITE_TYPE		SURF	BORE	SURF	BORE	SURF
DEPTH-FEET		0.5	2	0.5	2	0.5
ANTIMONY	3.57	7.14	7.14	7.14	7.14	7.14
CADMIUM	0.899	3.89	2.06			2.98
LEAD-SED	53	181	98.6			135
MAGNESIUM	2790		3220		4050	
SILVER	0.294	0.589	0.589	0.589	0.589	0.589
ZINC	133	1190	264			939

FG*SEQ	Evaluation	JSUMP*175	JSUMP*176	JSUMP*177	JSUMP*178
ID	Criteria	SU27SS0101	SU27SA0102	SU27SS0201	SU27SA0202
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		13:20	13:25	13:30	13:35
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2	0.5	2
ANTIMONY	3.57	7.14	7.14	7.14	7.14
BARIUM	363		411		
CADMIUM	0.899	1.65		1.48	
LEAD-SED	53	70.7		258	
MAGNESIUM	2790	3530	3600	4050	3870
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	232		396	

FG*SEQ	Evaluation	JSUMP*181	JSUMP*182	JSUMP*183	JSUMP*184
ID	Criteria	SU28SS0101	SU28SA0102	SU28SS0201	SU28SA0202
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		12:45	12:50	12:55	13:00
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2	0.5	2
ANTIMONY	3.57	7.14	7.14	7.14	7.14
ARSENIC-SED	30		92		
CADMIUM	0.899	3.42		2.44	
COPPER	30.9	35.2			
LEAD-SED	53	494		1050	716
MAGNESIUM	2790		3400	3170	
SELENIUM-SED	0.612		1.05		
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	1130		634	

FG*SEQ	Evaluation	JSUMP*187	JSUMP*188	JSUMP*189	JSUMP*190
ID	Criteria	SU29SS0101	SU29SA0102	SU29SS0201	SU29SA0202
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		12:45	12:50	12:55	13:00
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.2	0.5	2.2
2-4-6-TNT-SOIL	0.456	0.929	1.88	4.32	0.75
ANTIMONY	3.57	7.14	7.14	7.14	7.14
BARIUM	363		408		
CADMIUM	0.899	3.35	1.33	2.25	
LEAD-SED	53	188		155	
MAGNESIUM	2790	3010	3110		
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	808		684	

FG*SEQ	Evaluation	JSUMP*193	JSUMP*194	JSUMP*195	JSUMP*196
ID	Criteria	SU30SS0101	SU30SA0102	SU30SS0201	SU30SA0202
COLL_DATE		09/17/92	09/17/92	09/17/92	09/17/92
COLL_TIME		13:30	13:35	13:30	13:35
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	1.9	0.5	1.9
ANTIMONY	3.57	7.14	7.14	8.97	7.14
CADMIUM	0.899	1.51		1.64	1.53
CALCIUM	64000			229000	
COPPER	30.9	31.5			83.3
LEAD-SED	53	138		137	
MAGNESIUM	2790	2990	3490	3150	2870
SILVER	0.294	0.589	0.589	5.89	0.589
ZINC	133	277		384	254

FG*SEQ	Evaluation	JSUMP*199	JSUMP*200	JSUMP*201	JSUMP*202
ID	Criteria	SU31SS0101	SU31SA0102	SU31SS0201	SU31SA0202
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME		08:45	08:55	09:05	09:10
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2	0.5	1
RDX-SOIL	0.587	1.68	1.28	1.81	
ANTIMONY	3.57	7.14	7.14	7.14	7.14
LEAD-SED	53	53.5			
MAGNESIUM	2790	2820	3140		3520
MERCURY	0.155	1.24	0.845	0.191	
SILVER	0.294	0.589	0.589	0.589	0.589
ZINC	133	167			

FG*SEQ	Evaluation	JSUMP*205	JSUMP*206	JSUMP*207	JSUMP*208
ID	Criteria	SU32SS0101	SU32SA0102	SU32SS0201	SU32SA0202
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME		09:20	09:30	09:35	09:45
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.3	0.5	2.3
ANTIMONY	3.57	14.1	99.6	7.14	7.14
CADMIUM	0.899	1.81		0.957	
CHROMIUM	48	70.7		74.7	
COPPER	30.9	117	1790	53	143
LEAD-SED	53	612	53.1	886	
MAGNESIUM	2790	3510	3430	3780	3460
MERCURY	0.155	131	1920	5.66	852
SILVER	0.294	0.589	0.589	0.589	0.784
ZINC	133	623	286	210	

FG*SEQ	Evaluation	JSUMP*211	JSUMP*212	JSUMP*213	JSUMP*214	JSUMP*215	JSUMP*216
ID	Criteria	SU33SS0101	SU33SA0102	SU33SS0201	SU33SA0202	SU33SS0301	SU33SA0302
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME		09:55	10:00	10:10	10:15	10:20	10:30
SITE_TYPE		SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	1.8	0.5	1	0.5	1
2-4-6-TNT-SOIL	0.456	0.525					
ANTIMONY	3.57	329	41.4	7.14	7.14	7.14	7.14
BARIUM	363					376	549
CHROMIUM	48			155			
COPPER	30.9	47.6		48.6		58.9	
LEAD-SED	53	6120	421	984	113	12700	2630
MAGNESIUM	2790	3320	2910	12700	3150		3160
MERCURY	0.155	78.9	9.45	12.9	0.862	120	20.2
POTASSIUM	2750			3060			
SELENIUM-SED	0.612					0.628	
SILVER	0.294	0.589	1.08	1.2	1	1.9	1.12
SODIUM	327		341			541	945
THALLIUM	18.2			22.3			
ZINC	133	176		319			

FG*SEQ	Evaluation	JSUMP*219	JSUMP*220	JSUMP*221	JSUMP*222
ID	Criteria	SU34SS0101	SU34SA0102	SU34SS0201	SU34SA0202
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME		13:15	15:20	15:25	15:30
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2	0.5	2
2-4-6-TNT-SOIL	0.456			4.13	
ANTIMONY	3.57	7.14	7.14	7.14	7.14
CADMIUM	0.899			1.05	
LEAD-SED	53	61.1		90.5	
MAGNESIUM	2790			2850	
MERCURY	0.155			0.194	
SILVER	0.294	0.898	1.02	0.977	1
ZINC	133			465	

FG*SEQ	Evaluation	JSUMP*225	JSUMP*226	JSUMP*227	JSUMP*228
ID	Criteria	SU35SS0101	SU35SA0102	SU35SS0201	SU35SA0202
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME		15:40	15:45	15:50	15:55
SITE_TYPE		SURF	BORE	SURF	BORE
DEPTH-FEET		0.5	2.8	0.5	2.8
ANTIMONY	3.57	7.14	7.14	11.2	7.14
CADMIUM	0.899			0.952	
CALCIUM	64000	65500		175000	
COPPER	30.9	922			
LEAD-SED	53	69.4		264	
MAGNESIUM	2790	6250	2860	7650	
SILVER	0.294	0.589	1.34	0.589	1.09
ZINC	133	200			

FG*SEQ	Evaluation	JSUMP*59	JSUMP*60	JSUMP*229	JSUMP*230
ID	Criteria	SU36SS0201	SU36SA0202	SU36SA0102	SU36SS0101
COLL_DATE		09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME		16:25	16:25	16:15	16:20
SITE_TYPE		SURF	BORE	BORE	SURF
DEPTH-FEET		0.5	2.3	2.3	0.5
RDX-SOIL	0.587	0.889	0.843		
ANTIMONY	3.57	7.14	7.14	7.14	7.14
CADMIUM	0.899	1.99		1.6	
LEAD-SED	53	122			
MAGNESIUM	2790			2840	3050
SILVER	0.294	0.589	0.589	1.11	1.26
ZINC	133	472		150	

APPENDIX D

SUMP SOIL DATA

SUMP SOIL DATA
(µg/g)

FG*SEQ	JSUMP*1		JSUMP*2		JSUMP*3		JSUMP*4		JSUMP*5		JSUMP*6	
ID	SU01SS0101		SU01SA0102		SU01SS0201		SU01SA0202		SU01SS0301		SU01SA0302	
COLL_DATE	09/14/92		09/14/92		09/14/92		09/14/92		09/14/92		09/14/92	
COLL_TIME	14:30		14:30		14:40		14:40		14:50		14:50	
SITE_TYPE	SURF	OK	BORE	OK	SURF	OK	BORE	OK	SURF	OK	BORE	OK
DEPTH-FEET	0.5		2.8		0.5		2.8		0.5		1	
MOISTURE-%WET_WT	10.5	<	21	<	21.1	<	21.2	<	10.1	<	17.3	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	3490	OK	9410	<	7880	<	11000	<	3600	OK	8480	<
ANTIMONY	13.8	OK	7.14	OK	7.14	OK	7.14	OK	9.44	OK	7.14	OK
ARSENIC-SED	6.47	OK	5.91	OK	10.3	OK	6.3	OK	2.66	OK	6.56	OK
BARIUM	91.9	OK	214	OK	175	OK	217	OK	66.9	<	163	OK
BERYLLIUM	0.587	OK	1.08	<	1.26	<	1.59	<	0.5	<	0.782	<
CADMIUM	2.28	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	180000	OK	4730	OK	41500	OK	4710	OK	175000	OK	41600	OK
CHROMIUM	57	OK	16.9	OK	32.3	OK	20	OK	10.5	OK	14.5	OK
COBALT	17	OK	12	OK	16.6	OK	12.3	OK	6.33	OK	9.34	OK
COPPER	72.2	OK	17.1	OK	30.7	OK	18.9	OK	17.3	OK	14.9	OK
IRON	11700	OK	15000	OK	16700	OK	26000	OK	7510	OK	14300	NA
LEAD-SED	749	OK	27.2	OK	144	OK	31.3	OK	48.2	OK		OK
MAGNESIUM	8300	OK	2260	OK	4740	OK	2820	OK	4900	OK	3240	OK
MANGANESE	3520	<	832	<	1410	<	954	<	594	<	692	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	46.4	OK	20.7	OK	39.1	OK	29.3	OK	19.1	OK	21.9	OK
POTASSIUM	562	<	893	<	1280	<	839	<	709	<	507	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	OK	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.841	OK	0.589	OK	0.589	OK
SODIUM	345	OK	206	<	256	<	204	<	287	OK	208	<
THALLIUM	16.3	OK	6.62	OK	6.62	OK	6.62	OK	10.9	OK	6.62	OK
VANADIUM	13.7	OK	29.6	OK	26.2	OK	32.1	OK	13.8	OK	24.6	OK
ZINC	531		64.4	<	97.1		63.1	<	71.6		50.2	
ACETONE			0.017	<			0.017	<				
BENZENE			0.0015	<			0.0015	<				
BROMODICHLOROMETHANE			0.0029	<			0.0029	<				
BROMOFORM			0.0069	<			0.0069	<				
BROMOMETHANE			0.0057	<			0.0057	<				
METHYL_ETHYL_KETONE			0.07	<			0.07	<				
CARBON_DISULFIDE			0.0044	<			0.0044	<				
CARBON_TETRACHLORIDE			0.007	<			0.007	<				
CHLOROBENZENE			0.00086	<			0.00086	<				
CHLOROETHANE			0.012	<			0.012	<				
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<				
CHLOROFORM			0.00087	<			0.00087	<				
CHLOROMETHANE			0.0088	<			0.0088	<				
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<				
1-1-DICHLOROETHANE			0.0023	<			0.0023	<				
1-2-DICHLOROETHANE			0.0017	<			0.0017	<				
1-1-DICHLOROETHENE			0.0039	<			0.0039	<				
1-2-DICHLOROETHENE			0.003	<			0.003	<				
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<				
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<				
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<				
ETHYLBENZENE			0.0017	<			0.0017	<				
2-HEXANONE			0.032	<			0.032	<				
METHYLENE_CHLORIDE			0.012	<			0.012	<				
MIBK			0.027	<			0.027	<				
STYRENE			0.0026	<			0.0026	<				
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<				
TETRACHLOROETHENE			0.00081	<			0.00081	<				
TOLUENE			0.00078	<			0.00078	<				
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<				
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<				
TRICHLOROETHENE			0.0028	<			0.0028	<				
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<				
VINYL_ACETATE			0.032	<			0.032	<				
VINYL_CHLORIDE			0.0062	<			0.0062	<				
XYLENES(TOTAL)			0.0015	<			0.0015	<				
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<				
ACROLEIN			0.1	<			0.1	<				
ACRYLONITRILE			0.1				0.1					

FG*SEQ	JSUMP*9		JSUMP*10		JSUMP*11		JSUMP*12		JSUMP*13		JSUMP*14	
ID	SU02SS0101		SU02SA0102		SU02SS0201		SU02SA0202		SU02SS0301		SU02SA0302	
COLL_DATE	09/14/92		09/14/92		09/14/92		09/14/92		09/14/92		09/14/92	
COLL_TIME	14:30		14:45		15:00		15:15		15:30		15:45	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		1.6		0.5		1.6		0.5		1	
MOISTURE-%WET_WT	21.9	<	23.3	<	19.1	<	21.3	<	19.9	<	18.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	OK	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	1.99	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	12100	<	13700	<	8880	<	15900	<	12000	<	9970	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	10.6	OK	9.36	OK	7.59	OK	9.16	OK	6.74	OK	2.66	OK
BARIUM	231	OK	252	OK	202	OK	231	OK	200	OK	120	OK
BERYLLIUM	1.18	<	1.1	<	0.93	<	1.59	<	1.2	<	1.18	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	5420	OK	4310	OK	7650	OK	4190	OK	4680	OK	3920	OK
CHROMIUM	20	OK	19.6	OK	16.2	OK	22.3	OK	21.4	OK	15.3	OK
COBALT	14.9	OK	18.9	OK	13	OK	16.3	OK	11.1	OK	2.72	OK
COPPER	25.1	OK	24.2	OK	18.5	OK	24.1	OK	26.1	OK	13.4	OK
IRON	21100	OK	24000	NA	16500	OK	25600	NA	18800	OK	9930	NA
LEAD-SED	64.6	OK		OK	42	OK		OK	41.1	OK		OK
MAGNESIUM	3430	OK	3750	OK	2830	OK	4040	OK	3000	OK	1540	OK
MANGANESE	960	<	1680	<	959	<	1470	<	674	<	52.5	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	24.3	OK	35	OK	26.3	OK	33.1	OK	23.4	OK	6.87	OK
POTASSIUM	918	<	817	<	798	<	963	<	1540	<	328	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	OK	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.782	OK	0.589	OK	0.589	OK
SODIUM	194	<	216	<	180	<	208	<	208	<	182	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	34.3	OK	33.5	OK	26.3	OK	41	OK	33.4	OK	23.9	OK
ZINC	101		79.2		77.9		78.7		82		31.5	
ACETONE												
BENZENE												
BROMODICHLOROMETHANE												
BROMOFORM												
BROMOMETHANE												
METHYL_ETHYL_KETONE												
CARBON_DISULFIDE												
CARBON_TETRACHLORIDE												
CHLOROBENZENE												
CHLOROETHANE												
2-CHLOROETHYLVINYLETHER												
CHLOROFORM												
CHLOROMETHANE												
DIBROMOCHLOROMETHANE												
1-1-DICHLOROETHANE												
1-2-DICHLOROETHANE												
1-1-DICHLOROETHENE												
1-2-DICHLOROETHENE												
1-2-DICHLOROPROPANE												
CIS-1-3-DICHLOROPROPENE												
TRANS-1-3-DICHLOROPROPENE												
ETHYLBENZENE												
2-HEXANONE												
METHYLENE_CHLORIDE												
MIBK												
STYRENE												
1-1-2-2-TETRACHLOROETHANE												
TETRACHLOROETHENE												
TOLUENE												
1-1-1-TRICHLORO-_ETHANE												
1-1-2-TRICHLORO-_ETHANE												
TRICHLOROETHENE												
TRICHLOROFLUOROMETHANE												
VINYL_ACETATE												
VINYL_CHLORIDE												
XYLENES(TOTAL)												
DICHLOROBENZENE-TOTAL												
ACROLEIN												
ACRYLONITRILE												

FG*SEQ	JSUMP*16		SUMP*17		JSUMP*18		JSUMP*19		JSUMP*20	
ID	SU03SS0202		SU03SS0101		SU03SA0102		SU03SS0201		SU03SA0202	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/15/92		09/15/92	
COLL_TIME	09:30		09:00		09:10		09:20		09:40	
SITE_TYPE	SURF		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		0.5		2.3		0.5		2.3	
MOISTURE-%WET_WT	9.4	<	11.9	<	14.8	<	18.3	<	10.3	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	OK	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.678	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	34.4	<	1580	<	390	<	33	<	98.8	<
NITROBENZENE-SOIL	2.41	<	2.41	OK	2.41	OK	2.41	<	2.41	OK
RDX-SOIL	0.587	<	3740	<	108	<	0.587	<	122	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	OK	0.488	OK	0.488	<	0.488	OK
2-4-6-TNT-SOIL	0.456	OK	9.18	OK	1.67	OK	0.456	OK	2.03	OK
ALUMINUM	11100	<	6380	OK	6870	OK	7490	<	5070	OK
ANTIMONY	7.14	OK	22.8	OK	12	OK	7.14	OK	10.4	OK
ARSENIC-SED	9.95	OK	18	OK	6.52	OK	9.57	OK	8.51	OK
BARIUM	209	OK	197	OK	171	OK	169	OK	116	OK
BERYLLIUM	1.26	OK	2.99	OK	0.907	OK	0.958	OK	0.617	<
CADMIUM	1.55	OK	2.98	OK	1.24	OK	2.17	OK	0.7	OK
CALCIUM	30200	OK	69900	OK	98400	OK	20100	OK	136000	OK
CHROMIUM	28.2	OK	65.4	OK	22.2	OK	23.5	OK	18.2	OK
COBALT	10.7	OK	15.8	OK	8.42	OK	8.03	OK	6.61	OK
COPPER	35.5	OK	441	OK	126	OK	29.9	OK	48.2	OK
IRON	17900	OK	93300	OK	21700	OK	13500	OK	11500	OK
LEAD-SED	97	OK	977	OK	232	OK	77.9	OK	127	OK
MAGNESIUM	12800	OK	19000	OK	27200	OK	6730	OK	23700	OK
MANGANESE	738	<	1180	<	752	<	553	<	591	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	22.1	OK	36.4	OK	25.7	OK	16.8	OK	20.3	OK
POTASSIUM	1030	<	659	<	543	<	734	<	423	<
SELENIUM-SED	0.25	<	0.25	OK	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.767	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	257	<	772	OK	384	OK	258	OK	329	OK
THALLIUM	6.62	OK	33	OK	20.7	OK	11.1	OK	16	OK
VANADIUM	30.9	OK	14.6	OK	19.5	OK	23.6	OK	18.4	OK
ZINC	108		765		274		88.1		114	
ACETONE										
BENZENE										
BROMODICHLOROMETHANE										
BROMOFORM										
BROMOMETHANE										
METHYL_ETHYL_KETONE										
CARBON_DISULFIDE										
CARBON_TETRACHLORIDE										
CHLOROBENZENE										
CHLOROETHANE										
2-CHLOROETHYLVINYLETHER										
CHLOROFORM										
CHLOROMETHANE										
DIBROMOCHLOROMETHANE										
1-1-DICHLOROETHANE										
1-2-DICHLOROETHANE										
1-1-DICHLOROETHENE										
1-2-DICHLOROETHENE										
1-2-DICHLOROPROPANE										
CIS-1-3-DICHLOROPROPENE										
TRANS-1-3-DICHLOROPROPENE										
ETHYLBENZENE										
2-HEXANONE										
METHYLENE_CHLORIDE										
MIBK										
STYRENE										
1-1-2-2-TETRACHLOROETHANE										
TETRACHLOROETHENE										
TOLUENE										
1-1-1-TRICHLORO-_ETHANE										
1-1-2-TRICHLORO-_ETHANE										
TRICHLOROETHENE										
TRICHLOROFLUOROMETHANE										
VINYL_ACETATE										
VINYL_CHLORIDE										
XYLENES(TOTAL)										
DICHLOROBENZENE-TOTAL										
ACROLEIN										
ACRYLONITRILE										

FG*SEQ	JSUMP*21		JSUMP*23		JSUMP*24		JSUMP*25		JSUMP*26	
ID	SU04SS0102		SU04SS0101		SU04SA0102		SU04SS0201		SU04SA0202	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/15/92		09/15/92	
COLL_TIME	10:20		10:20		10:30		10:40		10:50	
SITE_TYPE	SURF		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		0.5		2.1		0.5		2.8	
MOISTURE-%WET_WT	17.9	<	18.5	<	18.4	<	12.9	<	19.7	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	9690	<	11600	<	11000	<	6310	OK	11400	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	10.3	OK	7.14	OK
ARSENIC-SED	9.19	OK	10.7	OK	1.66	OK	5.62	OK	6.04	OK
BARIUM	228	OK	240	OK	159	OK	125	OK	187	OK
BERYLLIUM	1.49	OK	1.59	OK	1.37	<	1.19	<	1.48	<
CADMIUM	3.19	OK	2.06	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	21400	OK	6890	OK	9580	OK	151000	OK	8700	OK
CHROMIUM	26.2	OK	23	OK	22.1	OK	17.5	OK	21.5	OK
COBALT	13.8	OK	13.7	OK	9.31	OK	9.21	OK	12.5	OK
COPPER	33.3	OK	28.2	OK	15.4	OK	12.5	OK	15.9	OK
IRON	20000	OK	21600	OK	20600	NA	21700	OK	19600	NA
LEAD-SED	182	OK	110	OK		OK	74.5	OK		OK
MAGNESIUM	4280	OK	3450	OK	4240	OK	11300	OK	4260	OK
MANGANESE	1290	<	1060	<	248	<	1240	<	832	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	40.3	OK	39.9	OK	18.9	OK	22.2	OK	24.1	OK
POTASSIUM	1470	<	1470	<	786	<	637	<	752	<
SELENIUM-SED	0.25	<	0.25	OK	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.783	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	223	OK	212	<	266	<	345	OK	260	<
THALLIUM	11.5	OK	6.62	OK	6.62	OK	21.6	OK	6.62	OK
VANADIUM	29.7	OK	33.9	OK	34.3	OK	20.3	OK	37.8	OK
ZINC	191		143		59		94.2		53.7	<
ACETONE									0.017	<
BENZENE									0.0015	<
BROMODICHLOROMETHANE									0.0029	<
BROMOFORM									0.0069	<
BROMOMETHANE									0.0057	<
METHYL_ETHYL_KETONE									0.07	<
CARBON_DISULFIDE									0.0044	<
CARBON_TETRACHLORIDE									0.007	<
CHLOROBENZENE									0.00086	<
CHLOROETHANE									0.012	<
2-CHLOROETHYLVINYLETHER									0.01	<
CHLOROFORM									0.00087	<
CHLOROMETHANE									0.0088	<
DIBROMOCHLOROMETHANE									0.0031	<
1-1-DICHLOROETHANE									0.0023	<
1-2-DICHLOROETHANE									0.0017	<
1-1-DICHLOROETHENE									0.0039	<
1-2-DICHLOROETHENE									0.003	<
1-2-DICHLOROPROPANE									0.0029	<
CIS-1-3-DICHLOROPROPENE									0.0032	<
TRANS-1-3-DICHLOROPROPENE									0.0028	<
ETHYLBENZENE									0.0017	<
2-HEXANONE									0.032	<
METHYLENE_CHLORIDE									0.012	<
MIBK									0.027	<
STYRENE									0.0026	<
1-1-2-2-TETRACHLOROETHANE									0.0024	<
TETRACHLOROETHENE									0.00081	<
TOLUENE									0.00078	<
1-1-1-TRICHLORO-_ETHANE									0.0044	<
1-1-2-TRICHLORO-_ETHANE									0.0054	<
TRICHLOROETHENE									0.0028	<
TRICHLOROFLUOROMETHANE									0.0059	<
VINYL_ACETATE									0.032	<
VINYL_CHLORIDE									0.0062	<
XYLENES(TOTAL)									0.0015	<
DICHLOROBENZENE-TOTAL									0.1	<
ACROLEIN									0.1	<
ACRYLONITRILE									0.1	

FG*SEQ	JSUMP*29		JSUMP*30		JSUMP*31		JSUMP*32	
ID	SU05SS0101		SU05SA0102		SU05SS0201		SU05SA0202	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/15/92	
COLL_TIME	11:00		11:10		11:20		11:30	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		3		0.5		3	
MOISTURE-%WET_WT	19.5	<	17.3	<	14.6	<	22.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	OK	2.41	<	2.41	<
RDX-SOIL	0.587	<	4.21	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	OK	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	20.9	OK	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	9210	OK	0.456	OK	0.456	OK
ALUMINUM	10300	<	6970	<	8310	<	13700	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	5.68	OK	6.87	OK	6.21	OK	8.99	OK
BARIUM	177	OK	144	OK	167	OK	220	OK
BERYLLIUM	1.48	<	0.798	OK	1.37	OK	1.54	<
CADMIUM	0.7	OK	12	OK	3.64	OK	0.7	OK
CALCIUM	24800	OK	32000	OK	10600	OK	7200	OK
CHROMIUM	17.9	OK	12	OK	18	OK	18.7	OK
COBALT	9.95	OK	7.77	OK	11.5	OK	11.9	OK
COPPER	21.8	OK	12.6	OK	17.5	OK	20.1	OK
IRON	17300	OK	15800	OK	14500	OK	21100	NA
LEAD-SED	43.1	OK	151	OK	55.3	OK		OK
MAGNESIUM	2860	OK	2560	OK	2900	OK	3070	OK
MANGANESE	908	<	734	<	1050	<	624	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	24	OK	13	OK	22.2	OK	24.8	OK
POTASSIUM	681	<	640	<	960	<	679	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	254	<	247	<	207	<	234	OK
THALLIUM	6.62	OK	6.62	OK	6.62	OK	11.1	OK
VANADIUM	29.5	OK	20.7	OK	26.8	OK	31.4	OK
ZINC	76.2		122	<	130		71.3	<
ACETONE			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<
MIBK			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1	

FG*SEQ	JSUMP*34		JSUMP*35		JSUMP*36		JSUMP*161	
ID	SU06SA0102		SU06SS0101		SU06SS0201		SU06SD0101	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/18/92	
COLL_TIME	10:10		09:00		09:00		08:00	
SITE_TYPE	BORE		SURF		SURF		SURF	
DEPTH-FEET	1.3		0.5		0.5		0.5	G
MOISTURE-%WET_WT	14.7	<	25.9	<	24.9	<	50.9	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	OK	0.524	<
HMX-SOIL	0.666	<	0.666	<	12.7	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	OK	2.41	OK	2.41	<
RDX-SOIL	0.587	<	0.768	<	184	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	OK	0.488	OK	0.488	<
2-4-6-TNT-SOIL	0.456	OK	36.1	OK	1.18	OK	0.456	OK
ALUMINUM	7130	<	10700	<	11500	<	11700	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	4.26	OK	6.79	OK	6.17	OK	10.9	OK
BARIUM	2260	OK	1430	OK	550	OK	529	<
BERYLLIUM	0.973	<	1.66	OK	1.54	OK	0.5	OK
CADMIUM	0.7	OK	3.9	OK	3.03	OK	6.85	OK
CALCIUM	4140	OK	12300	OK	37600	OK	48200	OK
CHROMIUM	16.7	OK	121	OK	114	OK	321	OK
COBALT	7.94	OK	40	OK	16	OK	21.4	OK
COPPER	9.25	OK	146	OK	60.3	OK	182	OK
IRON	15300	NA	27700	OK	25300	OK	86000	OK
LEAD-SED		OK	2140	OK	494	OK	1100	OK
MAGNESIUM	1930	OK	6880	OK	10800	OK	18200	OK
MANGANESE	520	<	1240	OK	678	OK	941	OK
MERCURY	0.05	OK	0.614	OK	0.194	OK	2.37	OK
NICKEL	10.7	OK	59.7	OK	49	OK	163	OK
POTASSIUM	444	<	1080	<	1630	<	3800	<
SELENIUM-SED	0.25	<	0.25	OK	0.25	<	0.25	<
SILVER	0.589	OK	0.964	OK	0.589	OK	0.589	OK
SODIUM	220	<	277	OK	271	OK	731	<
THALLIUM	6.62	OK	12.3	OK	11.2	OK	6.62	OK
VANADIUM	29.2	OK	31.5	OK	29.1	OK	18.1	OK
ZINC	42.8		1400		745		1390	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*37		JSUMP*39		JSUMP*40		JSUMP*155	
ID	SU07SS0102		SU07SS0101		SU07SS0201		SU07SD0101	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/18/92	
COLL_TIME	09:15		09:15		09:15		08:35	
SITE_TYPE	SURF		SURF		SURF		SURF	
DEPTH-FEET	0.5		0.5		0.5		0.5	G
MOISTURE-%WET_WT	23.2	<	24.1	<	19.9	<	73.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	<	0.524	OK
HMX-SOIL	25.4	<	302	<	0.666	<	195	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	OK	0.488	OK	0.488	OK	0.488	OK
2-4-6-TNT-SOIL	5.46	OK	2.33	OK	1.07	OK	0.886	OK
ALUMINUM	9870	OK	11800	<	9730	<	10200	OK
ANTIMONY	43.2	OK	7.14	OK	7.14	OK	47.1	OK
ARSENIC-SED	16.7	OK	21.5	OK	8.65	OK	10.7	OK
BARIUM	13000	OK	13300	OK	3530	OK	10400	<
BERYLLIUM	1.55	OK	1.04	OK	0.896	OK	0.5	OK
CADMIUM	22.5	OK	20.6	OK	2.92	OK	69.5	OK
CALCIUM	10200	OK	10100	OK	28700	OK	16700	OK
CHROMIUM	1530	OK	424	OK	84.4	OK	1360	OK
COBALT	52.2	OK	23.1	OK	15.6	OK	42.2	OK
COPPER	254	OK	198	OK	48.4	OK	921	OK
IRON	29200	OK	26100	OK	19300	OK	84100	OK
LEAD-SED	12700	OK	2000	OK	462	OK	5610	OK
MAGNESIUM	8090	OK	9970	OK	11500	OK	40900	OK
MANGANESE	995	OK	841	OK	720	OK	521	OK
MERCURY	0.825	OK	0.852	OK	0.468	OK	1.54	OK
NICKEL	66.6	OK	66.8	OK	60.1	OK	284	OK
POTASSIUM	772	<	851	<	775	<	704	<
SELENIUM-SED	0.25	OK	0.25	OK	0.25	<	0.25	OK
SILVER	1.79	OK	2.02	OK	0.589	OK	6.53	OK
SODIUM	297	OK	253	<	267	<	765	<
THALLIUM	26	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	29.9	OK	30.9	OK	27	OK	26.4	OK
ZINC	2690		2590		450		7640	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*43		JSUMP*44		JSUMP*45		JSUMP*46		JSUMP*47		JSUMP*48	
ID	SU08SS0101		SU08SA0102		SU08SS0201		SU08SA0202		SU08SS0301		SU08SA0302	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/15/92		09/15/92		09/15/92	
COLL_TIME	10:40		10:45		10:50		11:00		10:45		10:50	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		1.6		0.5		2.8		0.5		2.8	
MOISTURE-%WET_WT	9.1	<	15.4	<	8.7	<	15.6	<	15.2	<	13.6	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	4.98	<	19.2	<	115	<	11.9	<	2.14	<	3.36	<
NITROBENZENE-SOIL	2.41	<	2.41	OK	2.41	OK	2.41	OK	2.41	<	2.41	OK
RDX-SOIL	0.587	<	4.32	<	3.18	<	107	<	0.587	<	3.99	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	5730	<	8230	<	1020	OK	11900	<	11000	<	9740	<
ANTIMONY	7.14	OK	7.14	OK	16.5	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	6.28	OK	7.76	OK	4.96	OK	5.15	OK	6.35	OK	6.54	OK
BARIUM	106	<	216	OK	103	<	222	OK	139	OK	211	OK
BERYLLIUM	0.5	<	0.809	<	0.5	<	1.17	<	0.986	<	0.653	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	131000	OK	30600	OK	258000	<	28600	OK	41800	OK	84600	OK
CHROMIUM	9.47	OK	13.8	OK	4.05	OK	17.9	OK	14.8	OK	16.7	OK
COBALT	4.99	OK	7.39	OK	4.59	OK	12.6	OK	9.66	OK	6.81	OK
COPPER	7.02	OK	15.1	OK	3.2	OK	14.4	OK	9.53	OK	11.7	OK
IRON	10300	NA	14500	NA	4740	NA	16900	NA	16000	NA	12900	NA
LEAD-SED		OK		OK		OK		OK		OK		OK
MAGNESIUM	13600	OK	7970	OK	20300	OK	5130	OK	5850	OK	10200	OK
MANGANESE	513	<	566	<	660	<	582	<	752	<	661	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	17.3	OK	17.5	OK	19.4	OK	19.8	OK	15.6	OK	17.4	OK
POTASSIUM	530	<	479	<	311	<	695	<	664	<	835	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	5.89	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	318	<	251	<	381	OK	275	<	244	<	308	<
THALLIUM	6.62	OK	6.62	OK	12.9	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	17	OK	23.4	OK	8.59	OK	30.4	OK	26.4	OK	23.3	OK
ZINC	47.5		58.8		70.7		55.5	<	40.8		60.6	<
ACETONE							0.017	<			0.017	<
BENZENE							0.0015	<			0.0015	<
BROMODICHLOROMETHANE							0.0029	<			0.0029	<
BROMOFORM							0.0069	<			0.0069	<
BROMOMETHANE							0.0057	<			0.0057	<
METHYL_ETHYL_KETONE							0.07	<			0.07	<
CARBON_DISULFIDE							0.0044	<			0.0044	<
CARBON_TETRACHLORIDE							0.007	<			0.007	<
CHLOROBENZENE							0.00086	<			0.00086	<
CHLOROETHANE							0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER							0.01	<			0.01	<
CHLOROFORM							0.00087	<			0.00087	<
CHLOROMETHANE							0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE							0.0031	<			0.0031	<
1-1-DICHLOROETHANE							0.0023	<			0.0023	<
1-2-DICHLOROETHANE							0.0017	<			0.0017	<
1-1-DICHLOROETHENE							0.0039	<			0.0039	<
1-2-DICHLOROETHENE							0.003	<			0.003	<
1-2-DICHLOROPROPANE							0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE							0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE							0.0028	<			0.0028	<
ETHYLBENZENE							0.0017	<			0.0017	<
2-HEXANONE							0.032	<			0.032	<
METHYLENE_CHLORIDE							0.012	<			0.012	<
MIBK							0.027	<			0.027	<
STYRENE							0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE							0.0024	<			0.0024	<
TETRACHLOROETHENE							0.00081	<			0.00081	<
TOLUENE							0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE							0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE							0.0054	<			0.0054	<
TRICHLOROETHENE							0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE							0.0059	<			0.0059	<
VINYL_ACETATE							0.032	<			0.032	<
VINYL_CHLORIDE							0.0062	<			0.0062	<
XYLENES(TOTAL)							0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL							0.1	<			0.1	<
ACROLEIN							0.1	<			0.1	<
ACRYLONITRILE							0.1				0.1	

FG*SEQ	JSUMP*49		JSUMP*50		JSUMP*51		JSUMP*52	
ID	SU08SS0401		SU08SA0402		SU08SS0501		SU08SA0502	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/15/92	
COLL_TIME	11:00		11:30		11:45		11:50	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		3.6		0.5		1	
MOISTURE-%WET_WT	9.1	<	22.5	<	18.3	OK	16.7	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.572	OK	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	7.49	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	62.9	<	4.62	<	664	OK	10.6	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	67.6	OK	2.41	OK
RDX-SOIL	2.2	<	12.1	<	509	<	8.5	<
TETRYL-SED	0.731	<	0.731	<	0.731	OK	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	106	OK	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	10.4	OK	0.456	OK
ALUMINUM	1520	OK	12000	<	11500	<	13400	<
ANTIMONY	11.1	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	4.74	OK	7.58	OK	8.26	OK	7.83	OK
BARIUM	262	<	189	OK	1160	OK	303	OK
BERYLLIUM	0.5	<	0.819	<	1.1	OK	1.2	<
CADMIUM	0.7	OK	0.7	OK	1.17	OK	0.7	OK
CALCIUM	204000	OK	33500	OK	10000	OK	5590	OK
CHROMIUM	14.4	OK	17.3	OK	23.4	OK	20	OK
COBALT	4.49	OK	10.6	OK	33.1	OK	10.3	OK
COPPER	28.8	OK	16.1	OK	32.2	OK	18.3	OK
IRON	5540	OK	16200	NA	18300	OK	21300	NA
LEAD-SED	63.7	OK		OK	41.1	OK		OK
MAGNESIUM	19400	OK	6820	OK	3370	OK	3380	OK
MANGANESE	555	<	529	<	2000	OK	1110	<
MERCURY	0.05	OK	0.05	OK	0.083	OK	0.05	OK
NICKEL	20.7	OK	20	OK	51.9	OK	30.5	OK
POTASSIUM	466	<	797	<	1010	<	796	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	5.89	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	364	OK	291	<	228	<	252	<
THALLIUM	10.6	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	9.26	OK	28.8	OK	34	OK	31.9	OK
ZINC	70.7		63.6	<	124		82.1	
ACETONE			0.017	<				
BENZENE			0.0015	<				
BROMODICHLOROMETHANE			0.0029	<				
BROMOFORM			0.0069	<				
BROMOMETHANE			0.0057	<				
METHYL_ETHYL_KETONE			0.07	<				
CARBON_DISULFIDE			0.0044	<				
CARBON_TETRACHLORIDE			0.007	<				
CHLOROBENZENE			0.00086	<				
CHLOROETHANE			0.012	<				
2-CHLOROETHYLVINYLETHER			0.01	<				
CHLOROFORM			0.00087	<				
CHLOROMETHANE			0.0088	<				
DIBROMOCHLOROMETHANE			0.0031	<				
1-1-DICHLOROETHANE			0.0023	<				
1-2-DICHLOROETHANE			0.0017	<				
1-1-DICHLOROETHENE			0.0039	<				
1-2-DICHLOROETHENE			0.003	<				
1-2-DICHLOROPROPANE			0.0029	<				
CIS-1-3-DICHLOROPROPENE			0.0032	<				
TRANS-1-3-DICHLOROPROPENE			0.0028	<				
ETHYLBENZENE			0.0017	<				
2-HEXANONE			0.032	<				
METHYLENE_CHLORIDE			0.012	<				
MIBK			0.027	<				
STYRENE			0.0026	<				
1-1-2-2-TETRACHLOROETHANE			0.0024	<				
TETRACHLOROETHENE			0.00081	<				
TOLUENE			0.00078	<				
1-1-1-TRICHLORO-_ETHANE			0.0044	<				
1-1-2-TRICHLORO-_ETHANE			0.0054	<				
TRICHLOROETHENE			0.0028	<				
TRICHLOROFLUOROMETHANE			0.0059	<				
VINYL_ACETATE			0.032	<				
VINYL_CHLORIDE			0.0062	<				
XYLENES(TOTAL)			0.0015	<				
DICHLOROBENZENE-TOTAL			0.1	<				
ACROLEIN			0.1	<				
ACRYLONITRILE			0.1					

FG*SEQ	JSUMP*55		JSUMP*56		JSUMP*57		JSUMP*58		JSUMP*180	
ID	SU09SS0101		SU09SA0102		SU09SS0201		SU09SA0202		SU09SD0101	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/15/92		09/18/92	
COLL_TIME	13:30		13:35		13:30		13:35		10:45	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF	
DEPTH-FEET	0.5		2.5		0.5		2.5		0.5	
MOISTURE-%WET_WT	21	<	23.4	<	20.9	<	22.8	<	18.6	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<	2.41	OK
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<	1.15	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<	0.488	OK
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.607	OK
ALUMINUM	12400	<	10300	<	15500	<	11600	<	7870	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	11.6	OK	9.6	OK	12.9	OK	7.37	OK	4.33	OK
BARIUM	191	OK	290	OK	236	OK	215	OK	526	<
BERYLLIUM	1.22	OK	1.26	<	1.35	OK	0.999	<	0.5	OK
CADMIUM	1.31	OK	0.7	OK	1.89	OK	0.7	OK	5.33	OK
CALCIUM	5560	OK	4140	OK	5260	OK	4160	OK	72800	OK
CHROMIUM	31.4	OK	18.8	OK	31.1	OK	21.2	OK	32.7	OK
COBALT	11.4	OK	15.1	OK	11.3	OK	10	OK	4.51	OK
COPPER	29.6	OK	25.6	OK	28.3	OK	18.4	OK	20.8	OK
IRON	24100	OK	20600	NA	24300	OK	17500	NA	12100	OK
LEAD-SED	1360	OK		OK	533	OK		OK	1290	OK
MAGNESIUM	3650	OK	3850	OK	3890	OK	4270	OK	9520	OK
MANGANESE	801	<	1300	<	845	<	542	<	303	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	30	OK	47.8	OK	27.5	OK	26.9	OK	20.9	OK
POTASSIUM	1260	<	693	<	1280	<	1010	<	2880	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	205	<	241	<	205	<	296	<	820	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	31.7	OK	36.6	OK	39.4	OK	32.6	OK	17.9	OK
ZINC	317		70.1		271		64.5		1560	
ACETONE										
BENZENE										
BROMODICHLOROMETHANE										
BROMOFORM										
BROMOMETHANE										
METHYL_ETHYL_KETONE										
CARBON_DISULFIDE										
CARBON_TETRACHLORIDE										
CHLOROBENZENE										
CHLOROETHANE										
2-CHLOROETHYLVINYLETHER										
CHLOROFORM										
CHLOROMETHANE										
DIBROMOCHLOROMETHANE										
1-1-DICHLOROETHANE										
1-2-DICHLOROETHANE										
1-1-DICHLOROETHENE										
1-2-DICHLOROETHENE										
1-2-DICHLOROPROPANE										
CIS-1-3-DICHLOROPROPENE										
TRANS-1-3-DICHLOROPROPENE										
ETHYLBENZENE										
2-HEXANONE										
METHYLENE_CHLORIDE										
MIBK										
STYRENE										
1-1-2-2-TETRACHLOROETHANE										
TETRACHLOROETHENE										
TOLUENE										
1-1-1-TRICHLORO-_ETHANE										
1-1-2-TRICHLORO-_ETHANE										
TRICHLOROETHENE										
TRICHLOROFLUOROMETHANE										
VINYL_ACETATE										
VINYL_CHLORIDE										
XYLENES(TOTAL)										
DICHLOROBENZENE-TOTAL										
ACROLEIN										
ACRYLONITRILE										

FG*SEQ	JSUMP*61		JSUMP*62		JSUMP*63		JSUMP*64	
ID	SU10SS0101		SU10SA0102		SU10SS0201		SU10SA0202	
COLL_DATE	09/15/92		09/15/92		09/15/92		09/15/92	
COLL_TIME	13:30		14:00		13:50		13:40	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.6		0.5		2.6	
MOISTURE-%WET_WT	20.7	<	23.2	<	19.3	<	22.4	<
1-3-DINITROBENZENE	0.496	OK	0.496	<	0.496	OK	0.496	<
2-4-DNT-SOIL	0.638	<	0.424	<	0.616	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	OK	0.587	OK	0.587	<	0.587	<
TETRYL-SED	7960	OK	2.31	<	0.731	OK	0.731	<
1-3-5-TNB-SOIL	0.909	OK	0.488	OK	0.739	OK	0.488	OK
2-4-6-TNT-SOIL	795	OK	0.596	OK	8.3	OK	1.49	OK
ALUMINUM	9690	<	12800	<	10200	<	10100	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	8.78	OK	6.97	OK	10.3	OK	4.77	OK
BARIUM	175	OK	292	OK	143	OK	197	OK
BERYLLIUM	0.768	<	1.11	<	0.783	<	0.897	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	70100	OK	2680	OK	129000	OK	4310	OK
CHROMIUM	15	OK	17.3	OK	13.8	OK	14	OK
COBALT	8.69	OK	13	OK	7.42	OK	7.36	OK
COPPER	21.1	OK	11.1	OK	35	OK	11.5	OK
IRON	13700	OK	20100	NA	13400	OK	13200	NA
LEAD-SED	259	OK		OK	45.2	OK		OK
MAGNESIUM	3710	OK	2440	OK	2410	OK	1850	OK
MANGANESE	919	<	793	<	736	<	430	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	18.4	OK	12.8	OK	13.4	OK	11.4	OK
POTASSIUM	1130	<	1060	<	874	<	812	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	300	<	255	<	266	<	233	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	25.9	OK	39.9	OK	28.3	OK	28.3	OK
ZINC	233		53.7	<	106		55.6	<
ACETONE			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<
MIBK			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1	

FG*SEQ	JSUMP*65		JSUMP*67		JSUMP*68		JSUMP*69		JSUMP*70	
ID	SU11SS0401		SU11SS0101		SU11SS0201		SU11SS0301		SU11SA0302	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	08:55		08:30		08:35		08:30		08:35	
SITE_TYPE	SURF		SURF		SURF		SURF		BORE	
DEPTH-FEET	0.5		0.5		0.5		0.5		1	
MOISTURE-%WET_WT	16.6	OK	7.5	<	8.9	<	8	<	23.7	<
1-3-DINITROBENZENE	2.55	OK	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	2.82	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	784	<	1250	<	711	<	7.17	<	6.46	<
NITROBENZENE-SOIL	2.41	OK	2.41	<	2.41	OK	2.41	<	2.41	OK
RDX-SOIL	5480	<	5.87	<	56.4	<	5.87	<	4.16	<
TETRYL-SED	0.731	OK	0.731	<	0.731	OK	0.731	<	0.731	<
1-3-5-TNB-SOIL	348	OK	0.488	<	0.897	OK	0.488	OK	0.488	OK
2-4-6-TNT-SOIL	1460	OK	0.456	OK	77.6	OK	8.31	OK	0.914	OK
ALUMINUM	11800	<	1370	OK	976	OK	6310	<	8910	<
ANTIMONY	7.14	OK	15.4	OK	16.5	OK	7.14	OK	7.14	OK
ARSENIC-SED	10.1	OK	2.55	OK	4.39	OK	5.59	OK	12.5	OK
BARIUM	198	OK	28.8	<	16.4	<	114	OK	214	OK
BERYLLIUM	1.12	OK	0.5	<	0.5	<	0.774	OK	1.21	<
CADMIUM	1.33	OK	0.7	OK	0.7	OK	1.12	OK	0.7	OK
CALCIUM	24100	OK	315000	OK	270000	<	68300	OK	9400	OK
CHROMIUM	18.1	OK	8	OK	4.05	OK	149	OK	19.2	OK
COBALT	12.1	OK	1.91	OK	3.59	OK	7.27	OK	9.45	OK
COPPER	25	OK	9.98	OK	4.73	OK	15.1	OK	14.7	OK
IRON	18700	OK	4180	OK	4980	NA	11100	OK	15000	OK
LEAD-SED	29	OK	55.8	OK		OK	648	OK	33.1	OK
MAGNESIUM	4650	OK	8950	OK	20500	OK	4160	OK	2330	OK
MANGANESE	1030	<	460	<	595	<	820	<	911	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	21.3	OK	11.5	OK	16.7	OK	13.5	OK	17.8	OK
POTASSIUM	2200	<	337	<	254	<	638	<	1020	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	5.89	OK	5.89	OK	0.589	OK	0.589	OK
SODIUM	319	<	346	OK	376	OK	265	<	267	<
THALLIUM	6.62	OK	9.31	OK	13.8	OK	6.62	OK	6.62	OK
VANADIUM	30	OK	7.83	OK	7.46	OK	18.4	OK	28.4	OK
ZINC	130		63.6		93.9		107		59.3	
ACETONE										
BENZENE										
BROMODICHLOROMETHANE										
BROMOFORM										
BROMOMETHANE										
METHYL_ETHYL_KETONE										
CARBON_DISULFIDE										
CARBON_TETRACHLORIDE										
CHLOROBENZENE										
CHLOROETHANE										
2-CHLOROETHYLVINYLETHER										
CHLOROFORM										
CHLOROMETHANE										
DIBROMOCHLOROMETHANE										
1-1-DICHLOROETHANE										
1-2-DICHLOROETHANE										
1-1-DICHLOROETHENE										
1-2-DICHLOROETHENE										
1-2-DICHLOROPROPANE										
CIS-1-3-DICHLOROPROPENE										
TRANS-1-3-DICHLOROPROPENE										
ETHYLBENZENE										
2-HEXANONE										
METHYLENE_CHLORIDE										
MIBK										
STYRENE										
1-1-2-2-TETRACHLOROETHANE										
TETRACHLOROETHENE										
TOLUENE										
1-1-1-TRICHLORO-_ETHANE										
1-1-2-TRICHLORO-_ETHANE										
TRICHLOROETHENE										
TRICHLOROFLUOROMETHANE										
VINYL_ACETATE										
VINYL_CHLORIDE										
XYLENES(TOTAL)										
DICHLOROBENZENE-TOTAL										
ACROLEIN										
ACRYLONITRILE										

FG*SEQ	JSUMP*73		JSUMP*74		JSUMP*75		JSUMP*76		JSUMP*77		JSUMP*78	
ID	SU12SS0101		SU12SA0102		SU12SS0201		SU12SA0202		SU12SS0301		SU12SA0302	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	09:15		09:20		09:15		09:20		09:30		09:35	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.8		0.5		2.8		0.5		1	
MOISTURE-%WET_WT	20.6	<	25.1	<	13.2	<	20.5	<	5.8	<	22.3	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	8.48	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	590	<	1.81	<	6710	<	2.57	<	701	<	8.45	<
NITROBENZENE-SOIL	2.41	OK	2.41	<	2.41	OK	2.41	<	2.41	<	2.41	<
RDX-SOIL	34.4	<	0.587	<	1450	<	0.587	<	11.7	<	0.587	<
TETRYL-SED	0.731	OK	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.526	OK	0.488	OK	0.488	<	0.488	<	0.488	OK	0.488	OK
2-4-6-TNT-SOIL	101	OK	0.508	OK	22.8	OK	0.456	OK	34.2	OK	2.93	OK
ALUMINUM	11500	<	11800	<	7650	OK	11200	<	2500	OK	13600	<
ANTIMONY	7.14	OK	7.14	OK	11.3	OK	7.14	OK	11.9	OK	7.14	OK
ARSENIC-SED	4.49	OK	7.52	OK	5.96	OK	7.75	OK	2.35	OK	4.09	OK
BARIUM	145	OK	198	OK	277	OK	273	OK	46.5	<	265	OK
BERYLLIUM	0.723	OK	1.09	<	1.55	OK	1.23	<	0.5	OK	1.45	<
CADMIUM	2.34	OK	0.7	OK	13.1	OK	0.7	OK	5.88	OK	0.7	OK
CALCIUM	34800	OK	44100	OK	83000	OK	3110	OK	183000	OK	3690	OK
CHROMIUM	102	OK	35.9	OK	208	OK	21.1	OK	49.3	OK	20.9	OK
COBALT	10.7	OK	9.11	OK	10.9	OK	14.4	OK	4.92	OK	8.64	OK
COPPER	41.8	OK	15.8	OK	468	OK	14.4	OK	31.3	OK	15	OK
IRON	15400	OK	16000	NA	50700	OK	14400	NA	11900	OK	11500	NA
LEAD-SED	217	OK		OK	989	OK		OK	177	OK		OK
MAGNESIUM	4820	OK	2510	OK	6740	OK	3200	OK	7130	OK	1680	OK
MANGANESE	1170	OK	646	<	947	OK	640	<	601	OK	378	<
MERCURY	1.03	OK	0.05	OK	6.53	OK	0.05	OK	1.52	OK	0.05	OK
NICKEL	22.7	OK	19.9	OK	36.7	OK	26.1	OK	12	OK	15.1	OK
POTASSIUM	747	<	514	<	800	<	609	OK	297	<	455	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.475	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	285	<	300	<	497	OK	284	<	312	OK	304	<
THALLIUM	6.62	OK	6.62	OK	19.8	OK	6.62	OK	14.2	OK	6.62	OK
VANADIUM	23	OK	29.3	OK	10.9	OK	20.7	OK	8	OK	23.2	OK
ZINC	496		70.8	<	809		61.6	OK	269		29.5	
ACETONE			0.017	<			0.064	<				
BENZENE			0.0015	<			0.0015	<				
BROMODICHLOROMETHANE			0.0029	<			0.0029	<				
BROMOFORM			0.0069	<			0.0069	<				
BROMOMETHANE			0.0057	<			0.0057	<				
METHYL_ETHYL_KETONE			0.07	<			0.07	<				
CARBON_DISULFIDE			0.0044	<			0.0044	<				
CARBON_TETRACHLORIDE			0.007	<			0.007	<				
CHLOROBENZENE			0.00086	<			0.00086	<				
CHLOROETHANE			0.012	<			0.012	<				
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<				
CHLOROFORM			0.00087	<			0.00087	<				
CHLOROMETHANE			0.0088	<			0.0088	<				
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<				
1-1-DICHLOROETHANE			0.0023	<			0.0023	<				
1-2-DICHLOROETHANE			0.0017	<			0.0017	<				
1-1-DICHLOROETHENE			0.0039	<			0.0039	<				
1-2-DICHLOROETHENE			0.003	<			0.003	<				
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<				
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<				
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<				
ETHYLBENZENE			0.0017	<			0.0017	<				
2-HEXANONE			0.032	<			0.032	<				
METHYLENE_CHLORIDE			0.012	<			0.012	<				
MIBK			0.027	<			0.027	<				
STYRENE			0.0026	<			0.0026	<				
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<				
TETRACHLOROETHENE			0.00081	<			0.00081	<				
TOLUENE			0.00078	<			0.00078	<				
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<				
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<				
TRICHLOROETHENE			0.0028	<			0.0028	<				
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<				
VINYL_ACETATE			0.032	<			0.032	<				
VINYL_CHLORIDE			0.0062	<			0.0062	<				
XYLENES(TOTAL)			0.0015	<			0.0015	<				
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<				
ACROLEIN			0.1	<			0.1	<				
ACRYLONITRILE			0.1				0.1					

FG*SEQ	JSUMP*81		JSUMP*82		JSUMP*83		JSUMP*84		JSUMP*85		JSUMP*86	
ID	SU13SS0101		SU13SA0102		SU13SS0201		SU13SA0202		SU13SS0301		SU13SA0302	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	10:10		10:20		10:30		10:40		10:50		11:00	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.9		0.5		2.9		0.5		2.9	
MOISTURE-%WET_WT	23	<	22.7	<	16.1	<	26.2	<	16	<	22.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	388	<	16	<	84.4	<	2.67	<	123	<	5.61	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	OK	2.41	OK	2.41	OK	2.41	OK
RDX-SOIL	921	<	9	<	8.73	<	2.7	<	774	<	15	<
TETRYL-SED	0.731	<	0.731	OK	0.731	OK	0.731	OK	0.731	OK	0.731	<
1-3-5-TNB-SOIL	48.8	OK	1.15	OK	5.51	OK	0.614	OK	3.89	OK	0.488	OK
2-4-6-TNT-SOIL	165	OK	15.7	OK	71.2	OK	6.51	OK	286	OK	88	OK
ALUMINUM	13200	OK	15200	<	8440	OK	20700	<	9870	<	16100	<
ANTIMONY	12	OK	7.14	OK	10.3	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	10.3	OK	6.5	OK	5.55	OK	9.69	OK	8.53	OK	11.1	OK
BARIUM	991	OK	282	OK	303	OK	234	OK	194	OK	246	OK
BERYLLIUM	1.79	OK	1.44	<	1.06	OK	1.12	<	0.892	<	1.5	<
CADMIUM	2.82	OK	0.7	OK	1.73	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	77200	OK	19800	OK	144000	OK	6690	OK	97100	OK	6690	OK
CHROMIUM	96.1	OK	30	OK	42.3	OK	30.9	OK	25.2	OK	25.7	OK
COBALT	38.8	OK	13.8	OK	15.5	OK	17.7	OK	16.5	OK	11.1	OK
COPPER	89.2	OK	25.1	OK	68.2	OK	25.4	OK	24.5	OK	17.5	OK
IRON	27700	OK	23200	OK	16100	OK	27500	OK	16500	OK	23600	NA
LEAD-SED	462	OK	123	OK	673	OK	38.5	OK	56.8	OK		OK
MAGNESIUM	6810	OK	4080	OK	9840	OK	4100	OK	7410	OK	3340	OK
MANGANESE	6260	OK	1040	OK	2310	OK	954	OK	2110	OK	742	OK
MERCURY	158	OK	230	OK	10.4	OK	1.08	OK	35.2	OK	130	OK
NICKEL	51	OK	30.7	OK	32.6	OK	35.9	OK	27.4	OK	23.2	OK
POTASSIUM	1150	<	1300	OK	1100	<	1830	<	1120	<	1230	<
SELENIUM-SED	0.25	<	0.575	<	0.25	<	0.25	OK	0.25	<	0.25	OK
SILVER	0.589	OK	0.589	OK	0.589	OK	0.827	OK	0.589	OK	0.758	OK
SODIUM	356	<	297	<	414	<	274	<	361	<	269	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	13.2	OK	6.62	OK	6.62	OK
VANADIUM	48.6	OK	42	OK	23.1	OK	55.2	OK	27.9	OK	46.2	OK
ZINC	647		141	<	383		104	<	164		65.5	<
ACETONE			0.017	<			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<			0.012	<
MIBK			0.027	<			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1				0.1	

FG*SEQ	JSUMP*89		JSUMP*90		JSUMP*91		JSUMP*92		JSUMP*93		JSUMP*94	
ID	SU14SS0101		SU14SA0102		SU14SS0201		SU14SA0202		SU14SS0301		SU14SA0302	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	08:40		08:50		09:00		09:10		09:20		09:30	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		3.1		0.5		3.1		0.5		3.1	
MOISTURE-%WET_WT	21.6	<	24.8	<	14.5	<	23.3	<	14	<	22.8	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	2680	<	11.3	<	10.8	<	90.6	<	1.96	<	2.47	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	OK	2.41	OK	2.41	OK	2.41	OK
RDX-SOIL	7240	<	52.1	<	63.2	<	275	<	7.29	<	1.2	<
TETRYL-SED	0.731	OK	0.731	OK	0.731	OK	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	21.2	OK	4.87	OK	0.561	OK	0.488	OK	0.488	<	0.488	OK
2-4-6-TNT-SOIL	6900	OK	23.7	OK	27.5	OK	20.1	OK	0.456	OK	0.508	OK
ALUMINUM	11600	<	20100	<	5890	<	20000	<	8580	<	14500	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	6.2	OK	6.6	OK	7.34	OK	6.65	OK	7.63	OK	5.77	OK
BARIUM	169	OK	275	OK	91.8	OK	261	OK	97.7	OK	229	OK
BERYLLIUM	0.789	<	1.78	<	0.967	<	1.57	<	1.06	<	1.14	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	67700	OK	4590	OK	34500	OK	5160	OK	32100	OK	4400	OK
CHROMIUM	17.3	OK	25.3	OK	13.1	OK	25	OK	16.7	OK	20.4	OK
COBALT	5.48	OK	8.07	OK	8.75	OK	7.61	OK	8.89	OK	8.84	OK
COPPER	14.8	OK	21	OK	15.1	OK	16.1	OK	13.2	OK	13.7	OK
IRON	13700	NA	27800	NA	18600	NA	22500	NA	18400	NA	17000	NA
LEAD-SED		OK		OK		OK		OK		OK		OK
MAGNESIUM	3150	OK	4500	OK	13000	OK	3550	OK	12600	OK	2580	OK
MANGANESE	493	OK	251	OK	449	<	336	<	464	<	709	<
MERCURY	0.085	OK	0.077	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	13.5	OK	23.7	OK	21.2	OK	16.1	OK	20.8	OK	17.4	OK
POTASSIUM	1250	OK	1030	<	841	<	1580	OK	1170	<	1430	OK
SELENIUM-SED	0.578	<	0.25	OK	0.25	<	0.732	OK	0.25	<	0.643	<
SILVER	0.589	OK	0.791	OK	0.589	OK	0.819	OK	0.589	OK	0.589	OK
SODIUM	337	<	307	<	300	<	297	<	294	<	276	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	30.5	OK	50.1	OK	23.7	OK	46.2	OK	25.8	OK	41.3	OK
ZINC	73.4		81.9	<	58		71.1	<	48.5		65.4	<
ACETONE			0.017	<			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<			0.012	<
MIBK			0.027	<			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1				0.1	

FG*SEQ	JSUMP*99		JSUMP*100		JSUMP*101		JSUMP*102		JSUMP*103		JSUMP*104	
ID	SU15SS0101		SU15SA0102		SU15SS0201		SU15SA0202		SU15SS0301		SU15SA0302	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	11:30		11:40		11:50		12:00		12:10		12:20	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.8		0.5		2.8		0.5		2.8	
MOISTURE-%WET_WT	7.8	<	23.9	<	10.6	<	23.5	<	22.2	<	24.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	OK	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	1.54	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	1.29	<	5.46	<	99.2	<	2.25	<	352	<	14.7	<
NITROBENZENE-SOIL	2.41	<	2.41	OK	2.41	OK	2.41	OK	2.41	OK	2.41	OK
RDX-SOIL	0.587	<	4.72	<	65.8	<	1.39	<	1450	<	43.7	<
TETRYL-SED	0.731	<	0.731	OK	0.731	OK	0.731	OK	0.731	OK	0.731	<
1-3-5-TNB-SOIL	0.488	OK	1.26	OK	1.43	OK	1.44	OK	2.55	OK	0.488	OK
2-4-6-TNT-SOIL	2.45	OK	22.9	OK	15.3	OK	3.81	OK	36.9	OK	3.05	OK
ALUMINUM	2310	<	13200	<	2850	OK	9610	<	11900	<	12500	<
ANTIMONY	7.14	OK	7.14	OK	9.37	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	2.37	OK	6.61	OK	3.83	OK	6.76	OK	2.68	OK	5.67	OK
BARIUM	70.5	OK	248	OK	84.8	<	272	OK	304	OK	257	OK
BERYLLIUM	0.633	OK	1.3	<	0.5	OK	1.12	<	1.06	OK	0.882	<
CADMIUM	15.3	OK	0.7	OK	5.98	OK	0.7	OK	2.05	OK	0.7	OK
CALCIUM	45100	OK	3830	OK	63400	OK	4890	OK	5450	OK	5660	OK
CHROMIUM	204	OK	26.1	OK	162	OK	19.2	OK	99.3	OK	47.5	OK
COBALT	5.96	OK	9.1	OK	6.5	OK	12.4	OK	13.9	OK	6.31	OK
COPPER	114	OK	15	OK	82.9	OK	14.3	OK	52.9	OK	18.8	OK
IRON	11900	OK	18500	NA	13700	OK	15100	OK	21300	OK	19500	OK
LEAD-SED	1390	OK		OK	1260	OK	86.6	OK	182	OK	170	OK
MAGNESIUM	3780	OK	2620	OK	4540	OK	1930	OK	2710	OK	2920	OK
MANGANESE	336	OK	650	<	390	OK	724	<	518	OK	420	OK
MERCURY	4.58	OK	0.05	OK	3.22	OK	0.05	OK	0.315	OK	0.147	OK
NICKEL	23.4	OK	14.6	OK	64.8	OK	12.5	OK	24	OK	22.4	OK
POTASSIUM	226	OK	1110	OK	235	<	802	OK	1010	<	890	<
SELENIUM-SED	0.363	<	0.766	<	0.25	<	0.692	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	241	<	267	<	278	<	252	<	269	<	277	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	9.46	OK	40.3	OK	9.53	OK	29.7	OK	31.9	OK	31.4	OK
ZINC	1180		63.3	<	983		58.2	<	549		86	<
ACETONE			0.017	<			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<			0.012	<
MIBK			0.027	<			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1				0.1	

FG*SEQ	JSUMP*107		JSUMP*108		JSUMP*109		JSUMP*110	
ID	SU16SS0101		SU16SA0102		SU16SS0201		SU16SA0202	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	10:45		10:55		10:45		10:55	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		3.1		0.5		3.1	
MOISTURE-%WET_WT	13.4	<	22.9	<	10.8	<	21.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	OK	2.41	<
RDX-SOIL	0.587	<	0.587	<	7.14	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	OK	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	1.55	OK	0.456	OK	0.456	OK
ALUMINUM	3560	<	10000	<	8040	<	8460	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	6.2	OK	4.82	OK	11.8	OK	5.33	OK
BARIUM	38.3	<	187	OK	116	OK	200	OK
BERYLLIUM	0.5	OK	1.07	<	0.598	OK	0.806	<
CADMIUM	6.32	OK	0.7	OK	1.09	OK	0.7	OK
CALCIUM	75500	OK	7340	OK	5610	OK	8520	OK
CHROMIUM	15.3	OK	16.4	OK	22.6	OK	16.6	OK
COBALT	4.51	OK	6.94	OK	5.74	OK	8.83	OK
COPPER	38.6	OK	49.6	OK	18.9	OK	27.6	OK
IRON	13800	OK	14800	NA	12500	NA	13400	NA
LEAD-SED	48.8	OK		OK		OK		OK
MAGNESIUM	10800	OK	2530	OK	2220	OK	2350	OK
MANGANESE	414	<	495	<	374	<	579	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	14.4	OK	15.9	OK	14.5	OK	16	OK
POTASSIUM	356	<	877	<	742	<	658	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	325	<	279	<	227	<	258	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	13.5	OK	26.9	OK	25.2	OK	25.8	OK
ZINC	377		101	<	92.2		63.7	<
ACETONE			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<
MIBK			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1	

FG*SEQ	JSUMP*114		JSUMP*115		JSUMP*116		JSUMP*217	
ID	SU17SA0102		SU17SS0201		SU17SA0202		SU17SS0101	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	12:10		12:15		12:25		12:00	
SITE_TYPE	BORE		SURF		BORE		SURF	
DEPTH-FEET	2.7		0.5		2.7		0.5	
MOISTURE-%WET_WT	24.1	<	22.3	<	23.5	<	12.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	<	0.524	<	0.524	OK
HMX-SOIL	0.757	<	0.666	<	0.666	<	3.52	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	OK	2.41	OK
RDX-SOIL	6.57	<	0.912	<	2.6	<	1.99	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	OK	0.488	OK	0.488	OK	0.488	OK
2-4-6-TNT-SOIL	4.51	OK	1.48	OK	2.73	OK	8.6	OK
ALUMINUM	13000	<	10200	<	13900	<	4570	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	7.54	OK	8.64	OK	7.65	OK	2.03	OK
BARIUM	200	OK	190	OK	199	OK	66.5	<
BERYLLIUM	0.737	<	0.925	OK	0.886	<	0.5	OK
CADMIUM	0.7	OK	1.53	OK	0.7	OK	1.57	OK
CALCIUM	5910	OK	4890	OK	5400	OK	5110	OK
CHROMIUM	18.1	OK	21.8	OK	20	OK	10.6	OK
COBALT	9.03	OK	12.1	OK	8.87	OK	5.71	OK
COPPER	15.4	OK	51.8	OK	27	OK	17.4	OK
IRON	18000	NA	20600	OK	23600	OK	9210	OK
LEAD-SED		OK	255	OK	49.2	OK	41.9	OK
MAGNESIUM	3110	OK	2570	OK	3110	OK	1750	OK
MANGANESE	556	<	1090	<	611	<	262	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	18.7	OK	22.7	OK	25.5	OK	12	OK
POTASSIUM	995	<	775	<	730	<	481	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	259	<	265	<	264	<	221	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	31.6	OK	31.2	OK	23.6	OK	14.3	OK
ZINC	63.3	<	123		70.5	<	55.1	
ACETONE	0.017	<			0.017	<		
BENZENE	0.0015	<			0.0015	<		
BROMODICHLOROMETHANE	0.0029	<			0.0029	<		
BROMOFORM	0.0069	<			0.0069	<		
BROMOMETHANE	0.0057	<			0.0057	<		
METHYL_ETHYL_KETONE	0.07	<			0.07	<		
CARBON_DISULFIDE	0.0044	<			0.0044	<		
CARBON_TETRACHLORIDE	0.007	<			0.007	<		
CHLOROBENZENE	0.00086	<			0.00086	<		
CHLOROETHANE	0.012	<			0.012	<		
2-CHLOROETHYLVINYLET	0.01	<			0.01	<		
CHLOROFORM	0.00087	<			0.00087	<		
CHLOROMETHANE	0.0088	<			0.0088	<		
DIBROMOCHLOROMETHANE	0.0031	<			0.0031	<		
1-1-DICHLOROETHANE	0.0023	<			0.0023	<		
1-2-DICHLOROETHANE	0.0017	<			0.0017	<		
1-1-DICHLOROETHENE	0.0039	<			0.0039	<		
1-2-DICHLOROETHENE	0.003	<			0.003	<		
1-2-DICHLOROPROPANE	0.0029	<			0.0029	<		
CIS-1-3-DICHLOROPROP	0.0032	<			0.0032	<		
TRANS-1-3-DICHLOROPR	0.0028	<			0.0028	<		
ETHYLBENZENE	0.0017	<			0.0017	<		
2-HEXANONE	0.032	<			0.032	<		
METHYLENE_CHLORIDE	0.012	<			0.012	<		
MIBK	0.027	<			0.027	<		
STYRENE	0.0026	<			0.0026	<		
1-1-2-2-TETRACHLOROE	0.0024	<			0.0024	<		
TETRACHLOROETHENE	0.00081	<			0.00081	<		
TOLUENE	0.00078	<			0.00078	<		
1-1-1-TRICHLORO-_ETH	0.0044	<			0.0044	<		
1-1-2-TRICHLORO-_ETH	0.0054	<			0.0054	<		
TRICHLOROETHENE	0.0028	<			0.0028	<		
TRICHLOROFLUOROMETHA	0.0059	<			0.0059	<		
VINYL_ACETATE	0.032	<			0.032	<		
VINYL_CHLORIDE	0.0062	<			0.0062	<		
XYLENES(TOTAL)	0.0015	<			0.0015	<		
DICHLOROBENZENE-TOTA	0.1	<			0.1	<		
ACROLEIN	0.1	<			0.1	<		
ACRYLONITRILE	0.1				0.1			

FG*SEQ	JSUMP*119		JSUMP*120		JSUMP*121		JSUMP*122	
ID	SU18SS0101		SU18SA0102		SU18SS0201		SU18SA0202	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	12:35		12:45		12:50		13:00	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.8		0.5		2.8	
MOISTURE-%WET_WT	11	<	22.2	<	16.9	<	23	<
1-3-DINITROBENZENE	0.496	OK	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	2.17	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	<	0.524	OK	0.524	<
HMX-SOIL	220	<	0.666	<	3.05	<	0.666	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	OK	2.41	OK
RDX-SOIL	31	<	0.683	<	27.7	<	1.04	<
TETRYL-SED	0.731	OK	0.731	<	0.731	OK	0.731	<
1-3-5-TNB-SOIL	2.89	OK	0.488	OK	0.511	OK	0.488	OK
2-4-6-TNT-SOIL	946	OK	1.45	OK	156	OK	3.01	OK
ALUMINUM	2810	OK	4280	<	9360	<	11400	<
ANTIMONY	13.4	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	2.95	OK	4.54	OK	11.2	OK	6.51	OK
BARIUM	66.7	<	89.7	<	130	OK	218	<
BERYLLIUM	0.5	OK	0.5	<	0.887	OK	0.5	<
CADMIUM	2.6	OK	0.7	OK	0.975	OK	0.7	OK
CALCIUM	287000	OK	14300	OK	62900	OK	33200	OK
CHROMIUM	10.3	OK	9.03	OK	21.6	OK	21.7	OK
COBALT	5.93	OK	6.78	OK	7.73	OK	14.2	OK
COPPER	39	OK	10.3	OK	24.7	OK	23.1	OK
IRON	8040	OK	7880	OK	22600	OK	17400	OK
LEAD-SED	48.2	OK	34.5	OK	65	OK	75.1	OK
MAGNESIUM	5370	OK	2760	OK	8380	OK	5870	OK
MANGANESE	716	OK	497	<	636	<	1160	<
MERCURY	0.958	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	10.1	OK	12.6	OK	20.6	OK	31.4	OK
POTASSIUM	344	<	429	<	926	<	1040	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	5.89	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	340	<	277	<	300	<	312	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	13	OK	14.8	OK	25.5	OK	32.3	OK
ZINC	424		43.5	<	155		104	<
ACETONE			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<
MIBK			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1	

FG*SEQ	JSUMP*125		JSUMP*126		JSUMP*127		JSUMP*128		JSUMP*129		JSUMP*130	
ID	SU19SS0101		SU19SA0102		SU19SS0201		SU19SA0202		SU19SS0301		SU19SA0302	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	13:10		13:15		13:25		13:30		13:40		13:45	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		3.1		0.5		3.1		0.5		1	
MOISTURE-%WET_WT	6.1	<	22	<	21.9	<	24	<	21.6	<	21.7	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK	0.524	OK
HMX-SOIL	1.5	<	6.46	<	10.2	<	3.66	<	44.7	<	4.69	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	OK	2.41	OK	2.41	OK	2.41	OK
RDX-SOIL	18.2	<	6.1	<	13.4	<	12.3	<	315	<	16.3	<
TETRYL-SED	0.731	<	0.731	<	0.731	OK	0.731	OK	0.731	OK	0.731	<
1-3-5-TNB-SOIL	0.488	OK	0.488	OK	0.969	OK	1.11	OK	0.986	OK	0.488	OK
2-4-6-TNT-SOIL	4.42	OK	1.23	OK	9.82	OK	6.51	OK	161	OK	4.3	OK
ALUMINUM	1050	OK	12600	<	13900	<	15700	<	12800	<	9890	<
ANTIMONY	15.7	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	2.3	OK	6.86	OK	7.11	OK	6.06	OK	7.93	OK	5.11	OK
BARIUM	15.8	<	174	OK	270	OK	229	OK	228	OK	235	OK
BERYLLIUM	0.5	<	0.826	<	0.958	<	1.04	<	1.1	<	0.82	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	350000	<	5860	OK	8470	OK	4160	OK	7440	OK	5010	OK
CHROMIUM	4.05	<	18.4	OK	19.9	OK	20	OK	28.7	OK	15.3	OK
COBALT	1.42	OK	8.88	OK	12.6	OK	15.9	OK	13.1	OK	11.5	OK
COPPER	3.3	OK	14.5	OK	23.6	OK	15.9	OK	24.1	OK	14.1	OK
IRON	2830	NA	17200	NA	20200	NA	19900	NA	18700	OK	14500	NA
LEAD-SED		OK		OK		OK		OK	76.2	OK		OK
MAGNESIUM	2360	OK	2830	OK	3160	OK	3680	OK	2910	OK	2250	OK
MANGANESE	882	OK	497	<	1170	<	624	<	1100	<	823	<
MERCURY	0.053	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	4.42	OK	18.4	OK	19.2	OK	18.9	OK	20.2	OK	17.8	OK
POTASSIUM	351	<	1130	<	1360	<	1140	OK	1460	OK	891	OK
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.517	<	0.588	<	0.489	<
SILVER	5.89	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	344	OK	366	<	457	<	351	<	259	<	247	<
THALLIUM	9.5	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	7.69	OK	32.5	OK	37.1	OK	35.6	OK	35.1	OK	30.5	OK
ZINC	22.1		61	<	91		69.3	<	82.6		61.9	
ACETONE			0.017	<			0.017	<				
BENZENE			0.0015	<			0.0015	<				
BROMODICHLOROMETHANE			0.0029	<			0.0029	<				
BROMOFORM			0.0069	<			0.0069	<				
BROMOMETHANE			0.0057	<			0.0057	<				
METHYL_ETHYL_KETONE			0.07	<			0.07	<				
CARBON_DISULFIDE			0.0044	<			0.0044	<				
CARBON_TETRACHLORIDE			0.007	<			0.007	<				
CHLOROBENZENE			0.00086	<			0.00086	<				
CHLOROETHANE			0.012	<			0.012	<				
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<				
CHLOROFORM			0.00087	<			0.00087	<				
CHLOROMETHANE			0.0088	<			0.0088	<				
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<				
1-1-DICHLOROETHANE			0.0023	<			0.0023	<				
1-2-DICHLOROETHANE			0.0017	<			0.0017	<				
1-1-DICHLOROETHENE			0.0039	<			0.0039	<				
1-2-DICHLOROETHENE			0.003	<			0.003	<				
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<				
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<				
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<				
ETHYLBENZENE			0.0017	<			0.0017	<				
2-HEXANONE			0.032	<			0.032	<				
METHYLENE_CHLORIDE			0.012	<			0.012	<				
MIBK			0.027	<			0.027	<				
STYRENE			0.0026	<			0.0026	<				
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<				
TETRACHLOROETHENE			0.00081	<			0.00081	<				
TOLUENE			0.00078	<			0.00078	<				
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<				
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<				
TRICHLOROETHENE			0.0028	<			0.0028	<				
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<				
VINYL_ACETATE			0.032	<			0.032	<				
VINYL_CHLORIDE			0.0062	<			0.0062	<				
XYLENES(TOTAL)			0.0015	<			0.0015	<				
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<				
ACROLEIN			0.1	<			0.1	<				
ACRYLONITRILE			0.1				0.1					

FG*SEQ	JSUMP*133		JSUMP*134		JSUMP*135		JSUMP*136		JSUMP*137		JSUMP*138	
ID	SU20SS0101		SU20SA0102		SU20SS0201		SU20SA0202		SU20SS0301		SU20SA0302	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	14:20		14:25		14:30		14:35		14:40		14:45	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.8		0.5		2.8		0.5		1	
MOISTURE-%WET_WT	20.1	<	23.4	<	11.6	<	23.3	<	16	<	20.7	<
1-3-DINITROBENZENE	0.496		0.496		0.496		0.496		0.496		0.496	
2-4-DNT-SOIL	11.8	<	9.11	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	3.03	<	1.63	<	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	OK	0.731	OK	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	18.1	OK	4.14	OK	0.488	OK	0.488	<	0.488	OK	0.488	OK
2-4-6-TNT-SOIL	5180	OK	1590	OK	21.9	OK	0.456	OK	5.12	OK	2.3	OK
ALUMINUM	9950	<	11500	<	9130	<	13800	<	7340	<	11700	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	8.17	OK	6.74	OK	6.52	OK	9.5	OK	5.9	OK	8.21	OK
BARIUM	140	OK	238	OK	156	OK	200	OK	130	<	282	OK
BERYLLIUM	0.91	<	1.1	<	0.858	<	0.919	OK	0.5	<	0.82	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	5	OK	0.7	OK	0.7	OK
CALCIUM	42300	OK	3840	OK	21600	OK	10700	OK	107000	OK	6990	OK
CHROMIUM	16.6	OK	16.2	OK	19.4	OK	18.7	OK	10.8	OK	16.5	OK
COBALT	7.79	OK	24.5	OK	6.72	OK	5.34	OK	6.22	OK	7.61	OK
COPPER	29.7	OK	16.8	OK	20.8	OK	17.5	OK	13.2	OK	11.3	OK
IRON	17200	OK	20100	NA	16100	OK	20800	NA	12100	OK	17600	NA
LEAD-SED	295	OK		OK	289	OK		OK	34.6	OK		OK
MAGNESIUM	4850	OK	2990	OK	4940	OK	4300	OK	11900	OK	2430	OK
MANGANESE	621	<	2480	OK	523	<	493	<	702	<	1240	<
MERCURY	0.05	OK	0.271	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	21.5	OK	24.8	OK	17.7	OK	18.1	OK	18.6	OK	12.1	OK
POTASSIUM	926	<	971	<	1250	<	1070	OK	700	<	832	OK
SELENIUM-SED	0.25	<	0.25	OK	0.25	<	0.434	OK	0.25	<	0.557	<
SILVER	0.589	OK	0.842	OK	0.589	OK	0.822	OK	0.589	OK	0.589	OK
SODIUM	294	<	266	<	261	<	287	<	312	<	238	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	29.7	OK	37.7	OK	27.1	OK	34.4	OK	22.9	OK	35	OK
ZINC	302		50.4	<	178		75.1	<	74.6		47.2	
ACETONE			0.017	<			0.017	<				
BENZENE			0.0015	<			0.0015	<				
BROMODICHLOROMETHANE			0.0029	<			0.0029	<				
BROMOFORM			0.0069	<			0.0069	<				
BROMOMETHANE			0.0057	<			0.0057	<				
METHYL_ETHYL_KETONE			0.07	<			0.07	<				
CARBON_DISULFIDE			0.0044	<			0.0044	<				
CARBON_TETRACHLORIDE			0.007	<			0.007	<				
CHLOROBENZENE			0.00086	<			0.00086	<				
CHLOROETHANE			0.012	<			0.012	<				
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<				
CHLOROFORM			0.00087	<			0.00087	<				
CHLOROMETHANE			0.0088	<			0.0088	<				
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<				
1-1-DICHLOROETHANE			0.0023	<			0.0023	<				
1-2-DICHLOROETHANE			0.0017	<			0.0017	<				
1-1-DICHLOROETHENE			0.0039	<			0.0039	<				
1-2-DICHLOROETHENE			0.003	<			0.003	<				
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<				
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<				
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<				
ETHYLBENZENE			0.0017	<			0.0017	<				
2-HEXANONE			0.032	<			0.032	<				
METHYLENE_CHLORIDE			0.012	<			0.012	<				
MIBK			0.027	<			0.027	<				
STYRENE			0.0026	<			0.0026	<				
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<				
TETRACHLOROETHENE			0.00081	<			0.00081	<				
TOLUENE			0.00078	<			0.00078	<				
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<				
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<				
TRICHLOROETHENE			0.0028	<			0.0028	<				
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<				
VINYL_ACETATE			0.032	<			0.032	<				
VINYL_CHLORIDE			0.0062	<			0.0062	<				
XYLENES(TOTAL)			0.0015	<			0.0015	<				
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<				
ACROLEIN			0.1	<			0.1	<				
ACRYLONITRILE			0.1				0.1					

FG*SEQ	JSUMP*141		JSUMP*142		JSUMP*143		JSUMP*144	
ID	SU21SS0101		SU21SA0102		SU21SS0201		SU21SA0202	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/16/92	
COLL_TIME	13:40		13:50		14:00		14:10	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		3.3		0.5		3.3	
MOISTURE-%WET_WT	13.3	<	24.4	<	6.2	<	21.2	<
1-3-DINITROBENZENE	0.496		0.496		0.496		0.496	
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	4890	OK	17200	<	4610	<	8780	<
ANTIMONY	11.2	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	7.46	OK	13.2	OK	3.98	OK	5.25	OK
BARIUM	82.9	<	228	OK	65.7	<	190	OK
BERYLLIUM	0.5	<	1.25	<	0.5	<	0.893	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	173000	OK	5470	OK	186000	OK	15800	OK
CHROMIUM	9.41	OK	23.2	OK	10.6	OK	15.4	OK
COBALT	11.6	OK	3.63	OK	3.74	OK	17	OK
COPPER	18.4	OK	20.1	OK	16.5	OK	13.8	OK
IRON	10600	OK	23900	NA	8930	OK	14100	NA
LEAD-SED	529	OK		OK	26	OK		OK
MAGNESIUM	13300	OK	3880	OK	9450	OK	8330	OK
MANGANESE	2460	<	150	<	556	<	888	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	27.4	OK	24	OK	12.9	OK	24.5	OK
POTASSIUM	733	<	1000	<	751	<	617	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	2.95	OK	0.589	OK
SODIUM	455	OK	225	<	320	<	277	<
THALLIUM	12.2	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	16.7	OK	31.3	OK	14.2	OK	25.4	OK
ZINC	305		79.5	<	56.7		60.1	<
ACETONE			0.017	<			0.017	<
BENZENE			0.0015	<			0.0015	<
BROMODICHLOROMETHANE			0.0029	<			0.0029	<
BROMOFORM			0.0069	<			0.0069	<
BROMOMETHANE			0.0057	<			0.0057	<
METHYL_ETHYL_KETONE			0.07	<			0.07	<
CARBON_DISULFIDE			0.0044	<			0.0044	<
CARBON_TETRACHLORIDE			0.007	<			0.007	<
CHLOROBENZENE			0.00086	<			0.00086	<
CHLOROETHANE			0.012	<			0.012	<
2-CHLOROETHYLVINYLETHER			0.01	<			0.01	<
CHLOROFORM			0.00087	<			0.00087	<
CHLOROMETHANE			0.0088	<			0.0088	<
DIBROMOCHLOROMETHANE			0.0031	<			0.0031	<
1-1-DICHLOROETHANE			0.0023	<			0.0023	<
1-2-DICHLOROETHANE			0.0017	<			0.0017	<
1-1-DICHLOROETHENE			0.0039	<			0.0039	<
1-2-DICHLOROETHENE			0.003	<			0.003	<
1-2-DICHLOROPROPANE			0.0029	<			0.0029	<
CIS-1-3-DICHLOROPROPENE			0.0032	<			0.0032	<
TRANS-1-3-DICHLOROPROPENE			0.0028	<			0.0028	<
ETHYLBENZENE			0.0017	<			0.0017	<
2-HEXANONE			0.032	<			0.032	<
METHYLENE_CHLORIDE			0.012	<			0.012	<
MIBK			0.027	<			0.027	<
STYRENE			0.0026	<			0.0026	<
1-1-2-2-TETRACHLOROETHANE			0.0024	<			0.0024	<
TETRACHLOROETHENE			0.00081	<			0.00081	<
TOLUENE			0.00078	<			0.00078	<
1-1-1-TRICHLORO-_ETHANE			0.0044	<			0.0044	<
1-1-2-TRICHLORO-_ETHANE			0.0054	<			0.0054	<
TRICHLOROETHENE			0.0028	<			0.0028	<
TRICHLOROFLUOROMETHANE			0.0059	<			0.0059	<
VINYL_ACETATE			0.032	<			0.032	<
VINYL_CHLORIDE			0.0062	<			0.0062	<
XYLENES(TOTAL)			0.0015	<			0.0015	<
DICHLOROBENZENE-TOTAL			0.1	<			0.1	<
ACROLEIN			0.1	<			0.1	<
ACRYLONITRILE			0.1				0.1	

FG*SEQ	JSUMP*147		JSUMP*148		JSUMP*149		JSUMP*150	
ID	SU22SS0101		SU22SA0102		SU22SS0201		SU22SS0202	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	10:40		10:50		11:00		11:00	
SITE_TYPE	SURF		BORE		SURF		SURF	
DEPTH-FEET	0.5		1.3		0.5		0.5	
MOISTURE-%WET_WT	22	<	22.2	<	21.6	<	22.2	<
1-3-DINITROBENZENE	0.496		0.496		0.496		0.496	
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	11000	<	14200	<	13300	<	14100	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	7.06	OK	9.8	OK	18.2	OK	10.4	OK
BARIUM	245	OK	253	OK	243	OK	342	OK
BERYLLIUM	1.33	OK	1.13	<	1.22	<	1.19	OK
CADMIUM	1.68	OK	0.7	OK	0.7	OK	1.03	OK
CALCIUM	7730	OK	6380	OK	6820	OK	6070	OK
CHROMIUM	19	OK	19.4	OK	20	OK	20.6	OK
COBALT	10.3	OK	8.26	OK	11.1	OK	21.6	OK
COPPER	19.3	OK	20.5	OK	21.4	OK	28.1	OK
IRON	24600	OK	22800	NA	20300	NA	27100	NA
LEAD-SED	111	OK		OK		OK		OK
MAGNESIUM	2710	OK	3530	OK	4230	OK	4480	OK
MANGANESE	532	<	429	<	533	<	1590	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	21.4	OK	27.2	OK	28.9	OK	51.1	OK
POTASSIUM	918	OK	659	<	948	<	713	<
SELENIUM-SED	0.496	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	209	<	223	<	224	<	218	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	29	OK	33.2	OK	35.7	OK	39.9	OK
ZINC	449		77.6		80.9		82.9	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*151		JSUMP*152		JSUMP*153		JSUMP*154	
ID	SU23SS0101		SU23SA0102		SU23SS0201		SU23SA0202	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	11:10		11:10		11:10		11:20	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		1.6		0.5		1.6	
MOISTURE-%WET_WT	25.8	<	22.1	<	21.7	<	21.4	<
1-3-DINITROBENZENE	0.496		0.496		0.496		0.496	
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	14100	<	14700	<	15600	<	13800	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	8.81	OK	6.31	OK	17.1	OK	4.8	OK
BARIUM	242	OK	234	OK	441	OK	223	OK
BERYLLIUM	1.16	OK	0.791	OK	1.43	OK	1.11	<
CADMIUM	29.8	OK	3.11	OK	1.5	OK	0.7	OK
CALCIUM	5660	OK	5510	OK	6290	OK	5670	OK
CHROMIUM	31.8	OK	22.5	OK	21	OK	20.2	OK
COBALT	12.3	OK	9.72	OK	27.9	OK	5.77	OK
COPPER	26.4	OK	22.1	OK	27	OK	22.4	OK
IRON	30700	OK	21000	NA	23000	NA	20900	NA
LEAD-SED	277	OK		OK		OK		OK
MAGNESIUM	3710	OK	3860	OK	4590	OK	5030	OK
MANGANESE	602	<	542	<	2660	<	143	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	22.9	OK	23.1	OK	59.6	OK	20.7	OK
POTASSIUM	1620	<	966	<	613	<	577	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	245	<	243	<	223	<	216	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	36.3	OK	33	OK	38.8	OK	36.7	OK
ZINC	721		130		78.8		79.4	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*156		JSUMP*157		JSUMP*158		JSUMP*159		JSUMP*160	
ID	SU24SA0103		SU24SS0101		SU24SA0102		SU24SS0201		SU24SA0202	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	10:45		10:40		10:45		10:55		11:00	
SITE_TYPE	BORE		SURF		BORE		SURF		BORE	
DEPTH-FEET	2		0.5		2		0.5		2	
MOISTURE-%WET_WT	23	<	25.8	<	23.1	<	19.3	<	22.5	<
1-3-DINITROBENZENE	0.496		0.496		0.496		0.496		0.496	
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	OK	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.716	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	15400	<	11200	<	13500	<	11100	<	13400	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	9.61	OK	5.19	OK	8.83	OK	6.54	OK	5.1	OK
BARIUM	292	OK	161	OK	271	OK	226	OK	249	OK
BERYLLIUM	1.25	<	1.06	OK	1.24	<	1.04	OK	0.724	<
CADMIUM	0.7	OK	6.06	OK	0.7	OK	1.99	OK	0.7	OK
CALCIUM	5380	OK	9940	OK	5340	OK	18200	OK	6860	OK
CHROMIUM	19.7	OK	44.1	OK	17.1	OK	29.2	OK	16.8	OK
COBALT	16.9	OK	9.13	OK	10.7	OK	10.8	OK	4.92	OK
COPPER	20	OK	57.3	OK	15	OK	24.5	OK	14.2	OK
IRON	24600	NA	35800	OK	20500	NA	19700	OK	15700	NA
LEAD-SED		OK	448	OK		OK	341	OK		OK
MAGNESIUM	3140	OK	7350	OK	2690	OK	6960	OK	2660	OK
MANGANESE	1520	<	314	OK	942	<	749	<	286	<
MERCURY	0.05	OK	0.111	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	25.8	OK	51.3	OK	17.5	OK	22	OK	13.6	OK
POTASSIUM	695	OK	1340	OK	675	OK	1330	<	632	<
SELENIUM-SED	0.484	<	0.653	<	0.478	OK	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.794	OK	0.589	OK	0.589	OK
SODIUM	229	<	286	<	209	<	270	<	192	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	37.3	OK	27.8	OK	33.1	OK	30.8	OK	26.4	OK
ZINC	84.1		1440		90.7		430		55.6	
ACETONE										
BENZENE										
BROMODICHLOROMETHANE										
BROMOFORM										
BROMOMETHANE										
METHYL_ETHYL_KETONE										
CARBON_DISULFIDE										
CARBON_TETRACHLORIDE										
CHLOROBENZENE										
CHLOROETHANE										
2-CHLOROETHYLVINYLETHER										
CHLOROFORM										
CHLOROMETHANE										
DIBROMOCHLOROMETHANE										
1-1-DICHLOROETHANE										
1-2-DICHLOROETHANE										
1-1-DICHLOROETHENE										
1-2-DICHLOROETHENE										
1-2-DICHLOROPROPANE										
CIS-1-3-DICHLOROPROPENE										
TRANS-1-3-DICHLOROPROPENE										
ETHYLBENZENE										
2-HEXANONE										
METHYLENE_CHLORIDE										
MIBK										
STYRENE										
1-1-2-2-TETRACHLOROETHANE										
TETRACHLOROETHENE										
TOLUENE										
1-1-1-TRICHLORO-_ETHANE										
1-1-2-TRICHLORO-_ETHANE										
TRICHLOROETHENE										
TRICHLOROFLUOROMETHANE										
VINYL_ACETATE										
VINYL_CHLORIDE										
XYLENES(TOTAL)										
DICHLOROBENZENE-TOTAL										
ACROLEIN										
ACRYLONITRILE										

FG*SEQ	JSUMP*162		JSUMP*163		JSUMP*164		JSUMP*165		JSUMP*166		JSUMP*167	
ID	SU25SS0103		SU25SS0101		SU25SA0102		SU25SS0201		SU25SA0202		SU25SS0203	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	10:40		10:40		10:45		10:55		11:00		10:55	
SITE_TYPE	SURF		SURF		BORE		SURF		BORE		SURF	
DEPTH-FEET	0.5		0.5		1.8		0.5		1.8		0.5	
MOISTURE-%WET_WT	20.5	<	21.7	<	23.2	<	22.9	<	22.9	<	22.9	<
1-3-DINITROBENZENE	0.496		0.496		0.496		0.496		0.496		0.496	
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	16700	<	15600	<	16700	<	14400	<	15900	<	11900	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	6.77	OK	6.21	OK	5.17	OK	7.34	OK	10.6	OK	8.4	OK
BARIUM	272	OK	272	OK	335	OK	194	OK	410	OK	193	OK
BERYLLIUM	1.1	OK	1.01	OK	1.13	<	1.07	OK	1.3	OK	1.12	OK
CADMIUM	1.57	OK	1.4	OK	0.7	OK	2.89	OK	1.31	OK	2.83	OK
CALCIUM	7040	OK	7150	OK	6590	OK	7130	OK	6960	OK	6970	OK
CHROMIUM	26.3	OK	24.5	OK	20.9	OK	27.5	OK	21	OK	26.8	OK
COBALT	7.13	OK	10	OK	7.74	OK	8.23	OK	31.6	OK	9.74	OK
COPPER	22.3	OK	21.5	OK	18.5	OK	24.5	OK	26.2	OK	23.8	OK
IRON	21400	OK	20800	OK	19000	NA	26000	OK	25300	OK	23500	OK
LEAD-SED	134	OK	137	OK		OK	329	OK	35.8	OK	352	OK
MAGNESIUM	3850	OK	3690	OK	3500	OK	3360	OK	3650	OK	2960	OK
MANGANESE	454	<	620	<	356	<	549	<	2760	<	607	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	23.7	OK	23.1	OK	16.6	OK	21.8	OK	68.3	OK	21.2	OK
POTASSIUM	1620	OK	1510	<	690	<	1810	OK	717	<	1490	<
SELENIUM-SED	0.475	<	0.25	<	0.25	<	0.493	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	233	<	214	<	229	<	244	<	219	<	234	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	38.6	OK	38.4	OK	32.3	OK	34.6	OK	40.4	OK	34.9	OK
ZINC	298		290		71.8		913		74.8		793	
ACETONE												
BENZENE												
BROMODICHLOROMETHANE												
BROMOFORM												
BROMOMETHANE												
METHYL_ETHYL_KETONE												
CARBON_DISULFIDE												
CARBON_TETRACHLORIDE												
CHLOROBENZENE												
CHLOROETHANE												
2-CHLOROETHYLVINYLETHER												
CHLOROFORM												
CHLOROMETHANE												
DIBROMOCHLOROMETHANE												
1-1-DICHLOROETHANE												
1-2-DICHLOROETHANE												
1-1-DICHLOROETHENE												
1-2-DICHLOROETHENE												
1-2-DICHLOROPROPANE												
CIS-1-3-DICHLOROPROPENE												
TRANS-1-3-DICHLOROPROPENE												
ETHYLBENZENE												
2-HEXANONE												
METHYLENE_CHLORIDE												
MIBK												
STYRENE												
1-1-2-2-TETRACHLOROETHANE												
TETRACHLOROETHENE												
TOLUENE												
1-1-1-TRICHLORO-_ETHANE												
1-1-2-TRICHLORO-_ETHANE												
TRICHLOROETHENE												
TRICHLOROFLUOROMETHANE												
VINYL_ACETATE												
VINYL_CHLORIDE												
XYLENES(TOTAL)												
DICHLOROBENZENE-TOTAL												
ACROLEIN												
ACRYLONITRILE												

FG*SEQ	JSUMP*169		JSUMP*170		JSUMP*171		JSUMP*172		JSUMP*173	
ID	SU26SS0101		SU26SA0102		SU26SS0201		SU26SA0202		SU26SS0102	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	12:45		12:50		12:55		13:00		12:45	
SITE_TYPE	SURF		BORE		SURF		BORE		SURF	
DEPTH-FEET	0.5		2		0.5		2		0.5	
MOISTURE-%WET_WT	17.7	<	21.6	<	22.4	<	21.3	<	19.5	<
1-3-DINITROBENZENE	0.496		0.496		0.496		0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	8820	<	13900	<	13100	<	11200	<	10300	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	4.35	OK	8.34	OK	7.45	OK	7.25	OK	5.51	OK
BARIUM	147	OK	281	OK	201	OK	202	OK	166	OK
BERYLLIUM	0.85	OK	0.905	OK	0.77	<	1.03	<	0.953	OK
CADMIUM	3.89	OK	2.06	OK	0.7	OK	0.7	OK	2.98	OK
CALCIUM	15200	OK	6580	OK	6310	OK	9190	OK	12100	OK
CHROMIUM	18	OK	22.6	OK	18.8	OK	18.9	OK	19.2	OK
COBALT	8.61	OK	16.6	OK	11.4	OK	8.43	OK	6.9	OK
COPPER	26.9	OK	24	OK	18.5	OK	16.9	OK	25.7	OK
IRON	22100	OK	21600	OK	19600	NA	18200	OK	19300	OK
LEAD-SED	181	OK	98.6	OK		OK	32.2	OK	135	OK
MAGNESIUM	2600	OK	3220	OK	2780	OK	4050	OK	2470	OK
MANGANESE	565	<	1460	<	1200	<	370	<	537	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	21.2	OK	38.7	OK	32.7	OK	20.1	OK	18.7	OK
POTASSIUM	1040	<	1530	<	926	<	654	<	1180	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	237	<	238	<	213	<	212	<	256	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	22.2	OK	36.6	OK	31.9	OK	25.4	OK	24.7	OK
ZINC	1190		264		69.6		64.8		939	
ACETONE										
BENZENE										
BROMODICHLOROMETHANE										
BROMOFORM										
BROMOMETHANE										
METHYL_ETHYL_KETONE										
CARBON_DISULFIDE										
CARBON_TETRACHLORIDE										
CHLOROBENZENE										
CHLOROETHANE										
2-CHLOROETHYLVINYLETHER										
CHLOROFORM										
CHLOROMETHANE										
DIBROMOCHLOROMETHANE										
1-1-DICHLOROETHANE										
1-2-DICHLOROETHANE										
1-1-DICHLOROETHENE										
1-2-DICHLOROETHENE										
1-2-DICHLOROPROPANE										
CIS-1-3-DICHLOROPROPENE										
TRANS-1-3-DICHLOROPROPENE										
ETHYLBENZENE										
2-HEXANONE										
METHYLENE_CHLORIDE										
MIBK										
STYRENE										
1-1-2-2-TETRACHLOROETHANE										
TETRACHLOROETHENE										
TOLUENE										
1-1-1-TRICHLORO-_ETHANE										
1-1-2-TRICHLORO-_ETHANE										
TRICHLOROETHENE										
TRICHLOROFLUOROMETHANE										
VINYL_ACETATE										
VINYL_CHLORIDE										
XYLENES(TOTAL)										
DICHLOROBENZENE-TOTAL										
ACROLEIN										
ACRYLONITRILE										

FG*SEQ	JSUMP*175		JSUMP*176		JSUMP*177		JSUMP*178	
ID	SU27SS0101		SU27SA0102		SU27SS0201		SU27SA0202	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	13:20		13:25		13:30		13:35	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2		0.5		2	
MOISTURE-%WET_WT	22.4	<	23.3	<	21.3	<	21.4	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	14900	<	18400	<	17300	<	11100	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	9.08	OK	8.74	OK	7.49	OK	7.69	OK
BARIUM	259	OK	411	OK	271	OK	210	OK
BERYLLIUM	0.756	OK	0.958	<	0.755	OK	1	<
CADMIUM	1.65	OK	0.7	OK	1.48	OK	0.7	OK
CALCIUM	5750	OK	6130	OK	6460	OK	5160	OK
CHROMIUM	22.6	OK	23.3	OK	30.6	OK	17.9	OK
COBALT	10.5	OK	20.5	OK	5.05	OK	8	OK
COPPER	26.7	OK	21.6	OK	26.2	OK	27.9	OK
IRON	27100	OK	26600	NA	21500	OK	26600	NA
LEAD-SED	70.7	OK		OK	258	OK		OK
MAGNESIUM	3530	OK	3600	OK	4050	OK	3870	OK
MANGANESE	928	<	1240	<	319	<	155	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	34	OK	25.9	OK	22.5	OK	21.2	OK
POTASSIUM	1420	OK	675	<	1550	<	467	<
SELENIUM-SED	0.456	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	244	<	278	<	275	<	287	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	38.9	OK	44.6	OK	37.6	OK	35.1	OK
ZINC	232		82.1		396		73.7	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*181		JSUMP*182		JSUMP*183		JSUMP*184	
ID	SU28SS0101		SU28SA0102		SU28SS0201		SU28SA0202	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	12:45		12:50		12:55		13:00	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2		0.5		2	
MOISTURE-%WET_WT	20.6	<	24.2	<	18.8	<	22.2	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	12700	<	15200	<	12300	<	12500	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	5.07	OK	92	OK	11	OK	8.08	OK
BARIUM	152	<	230	<	226	<	252	OK
BERYLLIUM	0.5	OK	0.5	<	0.5	OK	0.854	<
CADMIUM	3.42	OK	0.7	OK	2.44	OK	0.7	OK
CALCIUM	2970	OK	3780	OK	14600	OK	5040	OK
CHROMIUM	25	OK	18.5	OK	23.7	OK	17.6	OK
COBALT	10.8	OK	17.6	OK	12.9	OK	7.82	OK
COPPER	35.2	OK	21.5	OK	19	OK	14	OK
IRON	22800	OK	29000	NA	20400	OK	17800	OK
LEAD-SED	494	OK		OK	1050	OK	716	OK
MAGNESIUM	2400	OK	3400	OK	3170	OK	2410	OK
MANGANESE	567	OK	1260	<	937	<	886	<
MERCURY	0.126	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	18.8	OK	25.8	OK	25.1	OK	17.2	OK
POTASSIUM	1550	<	727	OK	1200	OK	1080	<
SELENIUM-SED	0.25	<	1.05	<	0.407	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	236	<	323	<	288	<	294	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	30.1	OK	34.3	OK	32.2	OK	31.6	OK
ZINC	1130		108		634		68.9	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*187		JSUMP*188		JSUMP*189		JSUMP*190	
ID	SU29SS0101		SU29SA0102		SU29SS0201		SU29SA0202	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	12:45		12:50		12:55		13:00	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.2		0.5		2.2	
MOISTURE-%WET_WT	19.5	<	23.2	<	22.6	<	22.6	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	OK	0.488	OK	0.488	OK	0.488	OK
2-4-6-TNT-SOIL	0.929	OK	1.88	OK	4.32	OK	0.75	OK
ALUMINUM	10300	<	14400	<	11600	<	15100	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	12.6	OK	9.22	OK	7.1	OK	5.18	OK
BARIUM	185	<	408	OK	160	OK	214	<
BERYLLIUM	0.5	OK	1.12	OK	0.79	OK	0.5	<
CADMIUM	3.35	OK	1.33	OK	2.25	OK	0.7	OK
CALCIUM	3980	OK	4480	OK	3690	OK	4190	OK
CHROMIUM	21.2	OK	21.4	OK	20.7	OK	21.1	OK
COBALT	7.15	OK	22.1	OK	9.14	OK	3.25	OK
COPPER	25.2	OK	23	OK	27.6	OK	19.6	OK
IRON	20200	OK	29100	NA	29700	OK	23900	NA
LEAD-SED	188	OK		OK	155	OK		OK
MAGNESIUM	3010	OK	3110	OK	2310	OK	2620	OK
MANGANESE	468	<	2940	<	233	OK	98.5	<
MERCURY	0.05	OK	0.05	OK	0.129	OK	0.05	OK
NICKEL	21.1	OK	65.1	OK	21.9	OK	21.7	OK
POTASSIUM	1140	<	637	<	923	<	657	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	248	<	254	<	260	<	238	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	27.7	OK	34.8	OK	34.1	OK	31.4	OK
ZINC	808		75.7		684		63.7	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*193		JSUMP*194		JSUMP*195		JSUMP*196	
ID	SU30SS0101		SU30SA0102		SU30SS0201		SU30SA0202	
COLL_DATE	09/17/92		09/17/92		09/17/92		09/17/92	
COLL_TIME	13:30		13:35		13:30		13:35	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		1.9		0.5		1.9	
MOISTURE-%WET_WT	17.3	<	23.6	<	7	<	22.1	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	13100	<	13900	<	3830	OK	12600	<
ANTIMONY	7.14	OK	7.14	OK	8.97	OK	7.14	OK
ARSENIC-SED	7.67	OK	6.67	OK	2.85	OK	11.1	OK
BARIUM	256	OK	272	OK	61.5	<	285	OK
BERYLLIUM	0.646	OK	1.43	<	0.5	OK	0.827	OK
CADMIUM	1.51	OK	0.7	OK	1.64	OK	1.53	OK
CALCIUM	6160	OK	6380	OK	229000	OK	8470	OK
CHROMIUM	23.4	OK	17.9	OK	12.2	OK	19.3	OK
COBALT	14.9	OK	15.6	OK	4.03	OK	15.9	OK
COPPER	31.5	OK	23.1	OK	23.8	OK	83.3	OK
IRON	24500	OK	25200	NA	8960	OK	19900	OK
LEAD-SED	138	OK		OK	137	OK	50.1	OK
MAGNESIUM	2990	OK	3490	OK	3150	OK	2870	OK
MANGANESE	1070	<	774	<	663	OK	2270	OK
MERCURY	0.05	OK	0.05	OK	0.114	OK	0.095	OK
NICKEL	24.9	OK	27.8	OK	11.3	OK	48.7	OK
POTASSIUM	1300	<	547	<	721	<	923	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	5.89	OK	0.589	OK
SODIUM	227	<	227	<	307	OK	229	<
THALLIUM	6.62	OK	6.62	OK	13.4	OK	6.62	OK
VANADIUM	34.3	OK	30.3	OK	11.7	OK	25.9	OK
ZINC	277		68.5		384		254	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*199		JSUMP*200		JSUMP*201		JSUMP*202	
ID	SU31SS0101		SU31SA0102		SU31SS0201		SU31SA0202	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	08:45		08:55		09:05		09:10	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2		0.5		1	
MOISTURE-%WET_WT	22.6	<	21	<	23.4	<	20.8	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	OK	2.41	<
RDX-SOIL	1.68	<	1.28	<	1.81	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	9230	<	12500	<	11300	<	14800	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	5.46	OK	4.95	OK	4.64	OK	7.57	OK
BARIUM	166	<	216	OK	202	<	267	OK
BERYLLIUM	0.5	<	0.817	<	0.5	<	0.963	<
CADMIUM	0.7	OK	0.7	OK	0.7	OK	0.7	OK
CALCIUM	5030	OK	5680	OK	4160	OK	5220	OK
CHROMIUM	16.8	OK	19.6	OK	17.4	OK	20.9	OK
COBALT	4.8	OK	4.42	OK	5.74	OK	5.91	OK
COPPER	27.5	OK	26.6	OK	26.6	OK	17.7	OK
IRON	13400	OK	18100	OK	15900	OK	19400	NA
LEAD-SED	53.5	OK	31.6	OK	42	OK		OK
MAGNESIUM	2820	OK	3140	OK	2650	OK	3520	OK
MANGANESE	332	OK	321	OK	389	OK	400	OK
MERCURY	1.24	OK	0.845	OK	0.191	OK	0.105	OK
NICKEL	16.3	OK	18.8	OK	14.9	OK	17.4	OK
POTASSIUM	1490	<	1300	<	2470	<	1700	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	<
SILVER	0.589	OK	0.589	OK	0.589	OK	0.589	OK
SODIUM	240	<	247	<	261	<	231	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	22.6	OK	30.3	OK	26.1	OK	33	OK
ZINC	167		101		96.8		71.2	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*205		JSUMP*206		JSUMP*207		JSUMP*208	
ID	SU32SS0101		SU32SA0102		SU32SS0201		SU32SA0202	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	09:20		09:30		09:35		09:45	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.3		0.5		2.3	
MOISTURE-%WET_WT	20.7	<	21.9	<	18.2	<	20.3	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	12800	OK	14000	OK	12900	<	12700	<
ANTIMONY	14.1	OK	99.6	OK	7.14	OK	7.14	OK
ARSENIC-SED	6.03	OK	3.78	OK	5.62	OK	6.51	OK
BARIUM	243	OK	209	<	204	OK	191	OK
BERYLLIUM	0.855	OK	0.5	<	0.7	OK	0.697	<
CADMIUM	1.81	OK	0.7	OK	0.957	OK	0.7	OK
CALCIUM	7640	OK	5620	OK	6700	OK	4680	OK
CHROMIUM	70.7	OK	23.6	OK	74.7	OK	22.9	OK
COBALT	8.83	OK	7.82	OK	6.57	OK	6.61	OK
COPPER	117	OK	1790	OK	53	OK	143	OK
IRON	25700	OK	26300	OK	19200	OK	20200	NA
LEAD-SED	612	OK	53.1	OK	886	OK		OK
MAGNESIUM	3510	OK	3430	OK	3780	OK	3460	OK
MANGANESE	544	OK	334	OK	355	OK	238	OK
MERCURY	131	OK	1920	OK	5.66	OK	852	OK
NICKEL	27.8	OK	24.2	OK	21	OK	22.1	OK
POTASSIUM	1630	<	1350	<	1270	<	974	<
SELENIUM-SED	0.25	<	0.25	<	0.25	<	0.25	OK
SILVER	0.589	OK	0.589	OK	0.589	OK	0.784	OK
SODIUM	240	OK	251	<	232	<	253	<
THALLIUM	11.4	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	30.5	OK	33.9	OK	31.6	OK	35.9	OK
ZINC	623		286		210		85.7	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*211	JSUMP*212	JSUMP*213	JSUMP*214	JSUMP*215	JSUMP*216
ID	SU33SS0101	SU33SA0102	SU33SS0201	SU33SA0202	SU33SS0301	SU33SA0302
COLL_DATE	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92
COLL_TIME	09:55	10:00	10:10	10:15	10:20	10:30
SITE_TYPE	SURF	BORE	SURF	BORE	SURF	BORE
DEPTH-FEET	0.5	1.8	0.5	1	0.5	1
MOISTURE-%WET_WT	22.8 <	24.8 <	26 <	22.7 <	31.2 <	24.9 <
1-3-DINITROBENZENE	0.496 <	0.496 <	0.496 <	0.496 <	0.496 <	0.496 <
2-4-DNT-SOIL	0.424 <	0.424 <	0.424 <	0.424 <	0.424 <	0.424 <
2-6-DNT-SOIL	0.524 <	0.524 <	0.524 <	0.524 <	0.524 <	0.524 <
HMX-SOIL	0.666 <	0.666 <	0.666 <	0.666 <	0.666 <	0.666 <
NITROBENZENE-SOIL	2.41 <	2.41 <	2.41 <	2.41 <	2.41 <	2.41 <
RDX-SOIL	0.587 <	0.587 <	0.587 <	0.587 <	0.587 <	0.587 <
TETRYL-SED	0.731 <	0.731 <	0.731 <	0.731 <	0.731 <	0.731 <
1-3-5-TNB-SOIL	0.488 OK	0.488 <	0.488 <	0.488 <	0.488 <	0.488 <
2-4-6-TNT-SOIL	0.525 OK	0.456 OK	0.456 OK	0.456 OK	0.456 OK	0.456 OK
ALUMINUM	11900 OK	18100 OK	16300 <	14200 <	17100 <	18500 <
ANTIMONY	329 OK	41.4 OK	7.14 OK	7.14 OK	7.14 OK	7.14 OK
ARSENIC-SED	3.39 OK	14.6 OK	4.33 OK	8.01 OK	3.21 OK	5.82 OK
BARIUM	206 OK	336 OK	303 OK	234 OK	376 <	549 OK
BERYLLIUM	0.836 <	0.762 <	0.904 <	0.848 <	0.5 <	1.24 <
CADMIUM	0.7 OK	0.7 OK	0.7 OK	0.7 OK	0.7 OK	0.7 OK
CALCIUM	4050 OK	3840 OK	6720 OK	4910 OK	2880 OK	4270 OK
CHROMIUM	38.2 OK	24.4 OK	155 OK	22.5 OK	23.3 OK	22.6 OK
COBALT	5.66 OK	6.82 OK	14.1 OK	12.1 OK	4.38 OK	11.1 OK
COPPER	47.6 OK	23.6 OK	48.6 OK	19.9 OK	58.9 OK	18.4 OK
IRON	15700 OK	24500 OK	24900 OK	22600 OK	17700 OK	26300 OK
LEAD-SED	6120 OK	421 OK	984 OK	113 OK	12700 OK	2630 OK
MAGNESIUM	3320 OK	2910 OK	12700 OK	3150 OK	2590 OK	3160 OK
MANGANESE	305 OK	165 OK	502 OK	516 OK	127 OK	515 OK
MERCURY	78.9 OK	9.45 OK	12.9 OK	0.862 OK	120 OK	20.2 OK
NICKEL	17.9 OK	21.2 OK	48.1 OK	23.8 OK	12.5 OK	19.4 OK
POTASSIUM	1490 OK	1240 OK	3060 <	993 <	1900 OK	1320 <
SELENIUM-SED	0.593 <	0.444 OK	0.25 OK	0.25 OK	0.628 OK	0.25 OK
SILVER	0.589 OK	1.08 OK	1.2 OK	1 OK	1.9 OK	1.12 OK
SODIUM	289 OK	341 <	303 OK	227 <	541 OK	945 <
THALLIUM	14 OK	6.62 OK	22.3 OK	6.62 OK	17.4 OK	6.62 OK
VANADIUM	30.4 OK	36.5 OK	35.6 OK	35.3 OK	37.4 OK	46.8 OK
ZINC	176	86.1	319	74.2	132	97.1
ACETONE						
BENZENE						
BROMODICHLOROMETHANE						
BROMOFORM						
BROMOMETHANE						
METHYL_ETHYL_KETONE						
CARBON_DISULFIDE						
CARBON_TETRACHLORIDE						
CHLOROBENZENE						
CHLOROETHANE						
2-CHLOROETHYLVINYLETHER						
CHLOROFORM						
CHLOROMETHANE						
DIBROMOCHLOROMETHANE						
1-1-DICHLOROETHANE						
1-2-DICHLOROETHANE						
1-1-DICHLOROETHENE						
1-2-DICHLOROETHENE						
1-2-DICHLOROPROPANE						
CIS-1-3-DICHLOROPROPENE						
TRANS-1-3-DICHLOROPROPENE						
ETHYLBENZENE						
2-HEXANONE						
METHYLENE_CHLORIDE						
MIBK						
STYRENE						
1-1-2-2-TETRACHLOROETHANE						
TETRACHLOROETHENE						
TOLUENE						
1-1-1-TRICHLORO-_ETHANE						
1-1-2-TRICHLORO-_ETHANE						
TRICHLOROETHENE						
TRICHLOROFLUOROMETHANE						
VINYL_ACETATE						
VINYL_CHLORIDE						
XYLENES(TOTAL)						
DICHLOROBENZENE-TOTAL						
ACROLEIN						
ACRYLONITRILE						

FG*SEQ	JSUMP*219		JSUMP*220		JSUMP*221		JSUMP*222	
ID	SU34SS0101		SU34SA0102		SU34SS0201		SU34SA0202	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	13:15		15:20		15:25		15:30	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2		0.5		2	
MOISTURE-%WET_WT	18.5	<	17.6	<	22	<	19.8	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	OK	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	4.13	OK	0.456	OK
ALUMINUM	11800	<	11600	<	11100	<	11900	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	6.36	OK	6.32	OK	7.13	OK	6.29	OK
BARIUM	200	OK	214	<	184	OK	218	<
BERYLLIUM	0.818	<	0.5	<	0.691	OK	0.5	<
CADMIUM	0.7	OK	0.7	OK	1.05	OK	0.7	OK
CALCIUM	4830	OK	4580	OK	6130	OK	4140	OK
CHROMIUM	19.9	OK	18.6	OK	22.4	OK	17.8	OK
COBALT	17.6	OK	11.3	OK	8.3	OK	12.8	OK
COPPER	18.1	OK	15.2	OK	22.7	OK	15.3	OK
IRON	17900	OK	16900	NA	17700	OK	16500	NA
LEAD-SED	61.1	OK		OK	90.5	OK		OK
MAGNESIUM	2490	OK	2490	OK	2850	OK	2360	OK
MANGANESE	1540	OK	893	<	739	OK	1190	<
MERCURY	0.064	OK	0.05	OK	0.194	OK	0.05	OK
NICKEL	31.9	OK	20.5	OK	20.8	OK	20.6	OK
POTASSIUM	1670	<	1020	<	1660	<	1020	<
SELENIUM-SED	0.25	OK	0.25	OK	0.25	OK	0.25	OK
SILVER	0.898	OK	1.02	OK	0.977	OK	1	OK
SODIUM	230	<	221	<	223	<	245	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	33.3	OK	32.2	OK	30.5	OK	33.3	OK
ZINC	131		71		465		59.8	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*225		JSUMP*226		JSUMP*227		JSUMP*228	
ID	SU35SS0101		SU35SA0102		SU35SS0201		SU35SA0202	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	15:40		15:45		15:50		15:55	
SITE_TYPE	SURF		BORE		SURF		BORE	
DEPTH-FEET	0.5		2.8		0.5		2.8	
MOISTURE-%WET_WT	18.3	<	21	<	16.7	<	19.6	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	<	2.41	<	2.41	<	2.41	<
RDX-SOIL	0.587	<	0.587	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	7900	<	11000	<	3100	OK	13100	<
ANTIMONY	7.14	OK	7.14	OK	11.2	OK	7.14	OK
ARSENIC-SED	8.14	OK	11.1	OK	3.16	OK	6.53	OK
BARIUM	135	<	172	OK	57.7	<	168	OK
BERYLLIUM	0.5	<	0.826	<	0.5	OK	0.767	<
CADMIUM	0.7	OK	0.7	OK	0.952	OK	0.7	OK
CALCIUM	65500	OK	4730	OK	175000	OK	4990	OK
CHROMIUM	14.6	OK	18.7	OK	35.2	OK	18.4	OK
COBALT	7.66	OK	5.39	OK	4.19	OK	8.18	OK
COPPER	922	OK	20.7	OK	14.6	OK	14.1	OK
IRON	14100	OK	18500	NA	7300	OK	17400	NA
LEAD-SED	69.4	OK		OK	264	OK		OK
MAGNESIUM	6250	OK	2860	OK	7650	OK	2580	OK
MANGANESE	653	OK	263	<	654	<	574	<
MERCURY	0.063	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	18.9	OK	17.9	OK	11.4	OK	15.2	OK
POTASSIUM	1340	<	804	<	653	<	1020	<
SELENIUM-SED	0.25	<	0.25	OK	0.25	<	0.25	OK
SILVER	0.589	OK	1.34	OK	0.589	OK	1.09	OK
SODIUM	275	OK	261	<	312	OK	246	<
THALLIUM	11.7	OK	6.62	OK	9.64	OK	6.62	OK
VANADIUM	23.4	OK	27.7	OK	14.5	OK	33.5	OK
ZINC	200		62	<	117		56.7	<
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

FG*SEQ	JSUMP*59		JSUMP*60		JSUMP*229		JSUMP*230	
ID	SU36SS0201		SU36SA0202		SU36SA0102		SU36SS0101	
COLL_DATE	09/18/92		09/18/92		09/18/92		09/18/92	
COLL_TIME	16:25		16:25		16:15		16:20	
SITE_TYPE	SURF	OK	BORE	OK	BORE		SURF	
DEPTH-FEET	0.5	G	2.3	G	2.3		0.5	
MOISTURE-%WET_WT	23.4	<	19	<	20.6	<	16	<
1-3-DINITROBENZENE	0.496	<	0.496	<	0.496	<	0.496	<
2-4-DNT-SOIL	0.424	<	0.424	<	0.424	<	0.424	<
2-6-DNT-SOIL	0.524	<	0.524	<	0.524	<	0.524	<
HMX-SOIL	0.666	<	0.666	<	0.666	<	0.666	<
NITROBENZENE-SOIL	2.41	OK	2.41	OK	2.41	<	2.41	<
RDX-SOIL	0.889	<	0.843	<	0.587	<	0.587	<
TETRYL-SED	0.731	<	0.731	<	0.731	<	0.731	<
1-3-5-TNB-SOIL	0.488	<	0.488	<	0.488	<	0.488	<
2-4-6-TNT-SOIL	0.456	OK	0.456	OK	0.456	OK	0.456	OK
ALUMINUM	9950	<	16200	<	10200	<	12300	<
ANTIMONY	7.14	OK	7.14	OK	7.14	OK	7.14	OK
ARSENIC-SED	6.32	OK	6.54	OK	6.53	OK	8.83	OK
BARIUM	203	OK	211	OK	185	<	226	OK
BERYLLIUM	0.919	OK	1.04	<	0.5	OK	0.661	<
CADMIUM	1.99	OK	0.7	OK	1.6	OK	0.7	OK
CALCIUM	5540	OK	4120	OK	6360	OK	5560	OK
CHROMIUM	25.1	OK	22.8	OK	17.8	OK	20.2	OK
COBALT	10	OK	7.31	OK	7.15	OK	13.6	OK
COPPER	24	OK	17.2	OK	15.5	OK	20	OK
IRON	21700	OK	23300	NA	16000	OK	21500	OK
LEAD-SED	122	OK		OK	42.9	OK	27.3	OK
MAGNESIUM	2640	OK	2660	OK	2840	OK	3050	OK
MANGANESE	593	<	348	<	542	<	1080	<
MERCURY	0.05	OK	0.05	OK	0.05	OK	0.05	OK
NICKEL	21.4	OK	17.7	OK	19.1	OK	28.6	OK
POTASSIUM	975	OK	756	<	1080	<	823	<
SELENIUM-SED	0.541	<	0.25	<	0.25	OK	0.25	OK
SILVER	0.589	OK	0.589	OK	1.11	OK	1.26	OK
SODIUM	241	<	209	<	220	<	223	<
THALLIUM	6.62	OK	6.62	OK	6.62	OK	6.62	OK
VANADIUM	27.8	OK	38.8	OK	28	OK	35	OK
ZINC	472		66.6		150		101	
ACETONE								
BENZENE								
BROMODICHLOROMETHANE								
BROMOFORM								
BROMOMETHANE								
METHYL_ETHYL_KETONE								
CARBON_DISULFIDE								
CARBON_TETRACHLORIDE								
CHLOROBENZENE								
CHLOROETHANE								
2-CHLOROETHYLVINYLETHER								
CHLOROFORM								
CHLOROMETHANE								
DIBROMOCHLOROMETHANE								
1-1-DICHLOROETHANE								
1-2-DICHLOROETHANE								
1-1-DICHLOROETHENE								
1-2-DICHLOROETHENE								
1-2-DICHLOROPROPANE								
CIS-1-3-DICHLOROPROPENE								
TRANS-1-3-DICHLOROPROPENE								
ETHYLBENZENE								
2-HEXANONE								
METHYLENE_CHLORIDE								
MIBK								
STYRENE								
1-1-2-2-TETRACHLOROETHANE								
TETRACHLOROETHENE								
TOLUENE								
1-1-1-TRICHLORO-_ETHANE								
1-1-2-TRICHLORO-_ETHANE								
TRICHLOROETHENE								
TRICHLOROFLUOROMETHANE								
VINYL_ACETATE								
VINYL_CHLORIDE								
XYLENES(TOTAL)								
DICHLOROBENZENE-TOTAL								
ACROLEIN								
ACRYLONITRILE								

APPENDIX E

SUMP WATER DATA

SUMP WATER DATA
(µg/L)

GF*SEQ	JSRW*28	JSRW*31	JSRW*32	JSRW*33	JSRW*34	JSRW*35
ID	SU06SW0102	SU07SW0101	SU12SW0101	SU13SW0101	SU10SW0101	SU16SW0101
COLL_DATE	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92
COL TIME	07:55	08:30	09:20	09:50	10:10	10:20
SAMPLE TYPE	SW	SW	SW	SW	SW	SW
SITE	RNSW	RNSW	RNSW	RNSW	RNSW	RNSW
STAT3	OK	OK	OK	OK	OK	OK
DEPTH FT	0	0	0	0	0	0
SAMPLING_TECHNIQUE	G	G	G	G	G	G
INSTALLATION_CODE	IA	IA	IA	IA	IA	IA
FIELD_I.D.-#	SW0102	SW0101	SW0101	SW0101	SW0101	SW0101
ACETONE-UG/L						
BENZENE-UG/L						
BROMODICHLOROMETHANE-UG/L						
BROMOFORM-UG/L						
BROMOMETHANE-UG/L						
METHYL_ETHYL_KETONE						
CARBON_DISULFIDE						
CARBON_TETRACHLORIDE						
CHLOROBENZENE						
CHLOROETHANE						
2-CHLOROETHYLVINYL						
CHLOROFORM						
CHLOROMETHANE						
DIBROMOCHLOROMETHANE						
1-1-DICHLOROETHANE						
1-2-DICHLOROETHANE						
1-1-DICHLOROETHYLENE						
1-2-DICHLOROETHENE-UG/L[540-59-0]						
1-2-DICHLOROPROPANE						
CIS-1-3-DICHLORO_PRO						
TRANS-1-3-DICHLORO_P						
ETHYLBENZENE	0.5 <	0.5 <				
2-HEXANONE	3.6 <	3.6 <				
METHYLENE_CHLORIDE	2.3 <	2.3 <				
METHYL_ISOBUTKETONE	3 <	3 <				
STYRENE						
1-1-2-2-TETRACHLORO_ETHANE						
TETRACHLOROETHENE						
TOLUENE						
1-1-1-TRICHLETHANE						
1-1-2-TRICHLETHANE						
TRICHLOROETHENE						
TRICHLOROFLUORO-_MET						
VINYL_ACETATE						
VINYL_CHLORIDE						
XYLENES-_TOTAL						
DICHLOROBENZENE-TOT.						
ACROLEIN						
ACRYLONITRILE	<	<	OK	<	<	<
1-3-DINITROBENZENE	0.611 <	0.611 <	47.3 OK	0.611 <	6.11 <	6.11 <
2-4-DINITROTOLUENE	0.064 <	0.064 <	81.8 <	0.064 <	0.637 <	0.637 <
2-6-DINITROTOLUENE	0.074 <	0.074 OK	0.738 OK	0.074 OK	0.738 OK	0.738 OK
HMX	1.21 <	6.6 <	496 <	223 OK	150 <	542 <
NITROBENZENE	0.645 <	0.645 OK	6.45 OK	4.64 OK	6.45 OK	6.45 OK
RDX	1.17 <	15.2 <	2240 <	1100 <	237 <	2370 <
TETRYL-TOTAL			1.6 <	15.6 OK	1.6 OK	15.6 OK
1-3-5-TRINITROBENZENE			0.449 OK	51.2 OK	5.53 OK	714 OK
2-4-6-TRINITROTOLUENE-TOTAL			0.717 OK	5650 OK	1190 <	4270 <
ALUMINUM-TOTAL			201 OK	2970 OK	141 OK	141 OK
BARIUM-TOTAL	115 <	210 <	51.9 <	11.9 <	40.4 <	20.4 <
BERYLLIUM-T	5 OK	5 OK	5 OK	5 OK	5 OK	5 OK
CALCIUM_(UG/L-CA)	22700 <	16500 <	21400 <	12000 <	38600 <	16300 <
CADMIUM-TOTAL	4.01 <	4.01 <	4.01 <	4.01 <	4.01 <	4.01 <
COBALT-TOTAL	25 <	25 OK	25 <	25 <	25 <	25 <
CHROMIUM-TOTAL	6.02 <	7.21 OK	6.02 OK	6.02 <	6.02 OK	6.02 OK
COPPER-TOTAL	8.09 OK	8.26 OK	9.8 OK	8.09 OK	38.5 OK	244 OK
IRON-TOTAL	580 OK	932 OK	796 OK	205 OK	314 OK	2780 OK
POTASSIUM-_TOTAL			2130 OK	3490 OK	2640 <	33100 OK
MAGNESIUM_(UG/L-MG)			1700 OK	3830 OK	500 OK	3120 OK
MANGANESE-TOTAL			52.8 OK	39.9 OK	30.7 OK	31.3 OK
SODIUM_(UG/L-NA)			1610 <	10400 <	1390 <	26500 <
NICKEL-TOTAL	34.3 <	34.3 <	34.3 <	34.3 <	34.3 <	34.3 <
ANTIMONY-TOTAL	38 <	38 <	38 <	38 <	38 <	38 <
THALLIUM	7 OK	7 OK	7 OK	7 OK	7 OK	7 OK
ZINC-TOTAL	60.6 OK	268 OK	122 OK	84.3 OK	82.9 OK	406 OK
LEAD-TOTAL	17.6 <	62.7 <	6.8 <	3.6 <	17.9 <	80.5 <
SELENIUM-TOTAL	3 <	3 <	3 <	3 <	3 <	3 OK
ARSENIC-TOTAL	2.54 <	2.54 <	2.54 <	2.54 <	2.54 <	7.89 <

GF*SEQ	JSRW*28	JSRW*31	JSRW*32	JSRW*33	JSRW*34	JSRW*35
ID	SU06SW0102	SU07SW0101	SU12SW0101	SU13SW0101	SU10SW0101	SU16SW0101
SILVER-TOTAL	4.6 <	4.6 <	4.6 <	4.6 <	4.6 <	4.6 <
VANADIUM-TOTAL			11 <	11 <	11 <	11 <
MERCURY			0.2	0.2	0.2	0.2
ACENAPHTHENE						
ACENAPHTHYLENE						
ANTHRACENE						
BENZO(A)ANTHRACENE						
BENZO(B)FLUORANTHENE						
BENZO(K)FLUORANTHENE						
BENZOIC_ACID						
BENZO(GHI)PERYLENE						
BENZO(A)PYRENE						
BENZYL_ALCOHOL						
BIS(2-CHLOROETHOXY)_METHANE						
BIS(2-CHLOROETHYL)_ETHER						
BIS(2-CHLISOPROPYL)_ETHER						
BIS(2-ETHYLHEXYL)_PHTHALATE						
4-BROMOPHENYLPHENYL_ETHER						
BUTYLBENZYLPHTHALATE						
4-CHLOROANILINE						
4-CHL-3-METHPHENOL						
2-CHLORONAPHTHALENE						
2-CHLOROPHENOL						
4-CHLOROPHENYLPHENYL_ETHER						
CHRYSENE						
DIBEN(A-H)ANTHCENE						
DIBENZOFURAN						
1-2-DICHLOROBENZENE						
1-3-DICHLOROBENZENE						
1-4-DICHLOROBENZENE						
3-3-DICHLBENZIDINE						
2-4-DICHLOROPHENOL						
DIETHYLPHTHALATE						
2-4-DIMETHYLPHENOL						
DIMETHYLPTHALATE						
DI-N-BUTYLPHTHALATE						
2-4-DINITROPHENOL						
2-4-DINITROTOLUENE						
2-6-DINITROTOLUENE						
DI-N-OCTYLPHTHALATE						
FLUORANTHENE						
FLUORENE						
HEXACHLOROBENZENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROETHANE						
INDENO(1-2-3-CD)_PYRENE						
ISOPHORONE						
2-METHYL-4-6-DINITROPHENOL						
2-METHLYNAPHTHALENE						
2-METHYL_PHENOL						

GF*SEQ	JSRW*39	JSRW*40	JSUMP*131	JSUMP*191	JSUMP*192
ID	SU06SW0101	SU06SW0103	SU15SW0101	SU17SW0101	SU18SW0101
COLL_DATE	09/18/92	09/18/92	09/18/92	09/18/92	09/18/92
COL_TIME	07:55	07:55	10:30	12:25	12:45
SAMPLE TYPE	SW	SW	SW	SW	SW
SITE	RNSW	RNSW	SUMP	SUMP	JSUMP
STAT3	OK	OK	OK	OK	OK
DEPTH FT	0	0	0	0	0
SAMPLING_TECHNIQUE	G	G	G	G	G
INSTALLATION_CODE	IA	IA	IA	IA	IA
FIELD_I.D.-#	SW0101	SW0103	SW0101	SW0101	SW0101
ACETONE-UG/L					
BENZENE-UG/L					
BROMODICHLOROMETHANE-UG/L					
BROMOFORM-UG/L					
BROMOMETHANE-UG/L					
METHYL_ETHYL_KETONE					
CARBON_DISULFIDE					
CARBON_TETRACHLORIDE					
CHLOROBENZENE					
CHLOROETHANE					
2-CHLOROETHYLVINYL					
CHLOROFORM					
CHLOROMETHANE					
DIBROMOCHLOROMETHANE					
1-1-DICHLOROETHANE					
1-2-DICHLOROETHANE					
1-1-DICHLOROETHYLENE					
1-2-DICHLOROETHENE-UG/L[540-59-0]					
1-2-DICHLOROPROPANE					
CIS-1-3-DICHLORO_PRO					
TRANS-1-3-DICHLORO_P					
ETHYLBENZENE	0.5 <				
2-HEXANONE	3.6 <				
METHYLENE_CHLORIDE	2.3 <				
METHYL_ISOBUTKETONE	3 <				
STYRENE					
1-1-2-2-TETRACHLORO_ETHANE					
TETRACHLOROETHENE					
TOLUENE					
1-1-1-TRICHLETHANE					
1-1-2-TRICHLETHANE					
TRICHLOROETHENE					
TRICHLOROFLUORO-_MET					
VINYL_ACETATE					
VINYL_CHLORIDE					
XYLENES-_TOTAL					
DICHLOROBENZENE-TOT.					
ACROLEIN					
ACRYLONITRILE	<	<	<	<	<
1-3-DINITROBENZENE	0.611 <	0.611 <	0.611 <	6.11 <	6.11 OK
2-4-DINITROTOLUENE	0.064 <	0.064 <	0.064 <	0.637 <	80.7 <
2-6-DINITROTOLUENE	0.074 <	0.074 <	0.074 OK	0.738 OK	0.738 OK
HMX	1.21 <	1.21 <	168 <	737 <	698 <
NITROBENZENE	0.645 <	0.645 <	0.645 OK	6.45 OK	6.45 OK
RDX	1.17 <	1.17 <	235 <	5410 <	1690 <
TETRYL-TOTAL	1.6 <	1.6 <	1.6 <	1.6 OK	15.6 OK
1-3-5-TRINITROBENZEN	0.449 <	0.449 OK	0.449 <	1.03 OK	872 OK
2-4-6-TRINITROTOLUEN	0.635 <	2.63 <	0.635 OK	464 OK	8010 <
ALUMINUM-TOTAL	141 <	141 OK	392 OK	522 OK	141 OK
BARIUM-TOTAL	104 <	112 <	23 <	25.6 <	20.4 <
BERYLLIUM-T	5 OK	5 OK	5 OK	5 OK	5 OK
CALCIUM_(UG/L-CA)	21800 <	22000 <	13600 <	42500 <	26700 <
CADMIUM-TOTAL	4.01 <	4.01 <	4.01 <	4.01 <	4.01 <
COBALT-TOTAL	25 <	25 <	25 OK	25 <	25 <
CHROMIUM-TOTAL	6.02 <	6.02 <	13.3 OK	6.02 OK	6.02 OK
COPPER-TOTAL	8.09 OK	8.09 OK	111 OK	60.8 OK	18 OK
IRON-TOTAL	212 OK	597 OK	10900 OK	1500 OK	2250 OK
POTASSIUM-_TOTAL	483 <	1850 OK	1910 OK	2360 OK	13200 OK
MAGNESIUM_(UG/L-MG)	500 OK	826 OK	1260 OK	676 OK	9490 OK
MANGANESE-TOTAL	3.3 <	35.7 OK	40.9 OK	466 OK	124 OK
SODIUM_(UG/L-NA)	500 <	703 <	702 <	1280 <	22700 <
NICKEL-TOTAL	34.3 <	34.3 <	34.3 <	34.3 <	34.3 <
ANTIMONY-TOTAL	38 <	38 <	38 <	38 <	38 <
THALLIUM	7 <	7 OK	7 OK	7 OK	7 OK
ZINC-TOTAL	21.1 OK	63.8 OK	241 OK	1260 OK	37.3 OK
LEAD-TOTAL	2.4 <	16.7 <	86.3 <	55.5 <	5.5 <
SELENIUM-TOTAL	3 <	3 <	3 <	3 <	3 <
ARSENIC-TOTAL	2.54 <	2.54 <	2.54 <	2.54 <	2.54 <

GF*SEQ	JSRW*39	JSRW*40	JSUMP*131	JSUMP*191	JSUMP*192
ID	SU06SW0101	SU06SW0103	SU15SW0101	SU17SW0101	SU18SW0101
SILVER-TOTAL	4.6 <	4.6 <	4.6 <	4.6 <	4.6 <
VANADIUM-TOTAL	11 <	11 <	11 <	11 <	11 <
MERCURY	0.2	0.2	0.2	0.2	0.2
ACENAPHTHENE					
ACENAPHTHYLENE					
ANTHRACENE					
BENZO(A)ANTHRACENE					
BENZO(B)FLUORANTHENE					
BENZO(K)FLUORANTHENE					
BENZOIC_ACID					
BENZO(GHI)PERYLENE					
BENZO(A)PYRENE					
BENZYL_ALCOHOL					
BIS(2-CHLOROETHOXY)_METHANE					
BIS(2-CHLOROETHYL)_ETHER					
BIS(2-CHLISOPROPYL)_ETHER					
BIS(2-ETHYLHEXYL)_PHTHALATE					
4-BROMOPHENYLPHENYL_ETHER					
BUTYLBENZYLPHTHALATE					
4-CHLOROANILINE					
4-CHL-3-METHPHENOL					
2-CHLORONAPHTHALENE					
2-CHLOROPHENOL					
4-CHLOROPHENYLPHENYL_ETHER					
CHRYSENE					
DIBEN(A-H)ANTHCENE					
DIBENZOFURAN					
1-2-DICHLOROBENZENE					
1-3-DICHLOROBENZENE					
1-4-DICHLOROBENZENE					
3-3-DICHLBENZIDINE					
2-4-DICHLOROPHENOL					
DIETHYLPHTHALATE					
2-4-DIMETHYLPHENOL					
DIMETHYLPTHALATE					
DI-N-BUTYLPHTHALATE					
2-4-DINITROPHENOL					
2-4-DINITROTOLUENE					
2-6-DINITROTOLUENE					
DI-N-OCTYLPHTHALATE					
FLUORANTHENE					
FLUORENE					
HEXACHLOROBENZENE					
HEXACHLOROBUTADIENE					
HEXACHLOROCYCLOPENTADIENE					
HEXACHLOROETHANE					
INDENO(1-2-3-CD)_PYRENE					
ISOPHORONE					
2-METHYL-4-6-DINITROPHENOL					
2-METHLYNAPHTHALENE					
2-METHYL_PHENOL					

GF*SEQ	JAYW*226	JAYW*227	JAYW*228	JAYW*229	JAYW*230	JAYW*231
ID	RBWGW2501	RBWGW2601	RBWGW2701	RBWGW2801	RBWGW2901	RBWGW3001
COLL_DATE	09/21/92	09/21/92	09/21/92	09/21/92	09/21/92	09/21/92
COL TIME	18:15	18:40	19:00	19:30	20:00	20:30
SAMPLE TYPE	GW	GW	GW	GW	GW	GW
SITE	WELL	WELL	WELL	WELL	WELL	WELL
STAT3	OK	OK	OK	OK	OK	OK
DEPTH FT	35	50	40	35	35	800
SAMPLING_TECHNIQUE	G	G	G	G	G	G
INSTALLATION_CODE	IA	IA	IA	IA	IA	IA
FIELD I.D.-#	GW2501	GW2601	GW2701	GW2801	GW2901	GW3001
ACETONE-UG/L	13 <	13 <	13 <	13 <	13 <	13 <
BENZENE-UG/L	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
BROMODICHLOROMETHANE	0.59 <	0.59 <	0.59 <	0.59 <	0.59 <	0.59 <
BROMOFORM-UG/L	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <
BROMOMETHANE-UG/L	5.8 <	5.8 <	5.8 <	5.8 <	5.8 <	5.8 <
METHYL_ETHYL_KETONE	6.4 <	6.4 <	6.4 <	6.4 <	6.4 <	6.4 <
CARBON_DISULFIDE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
CARBON_TETRACHLORIDE	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <
CHLOROBENZENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
CHLOROETHANE	1.9 <	1.9 <	1.9 <	1.9 <	1.9 <	1.9 <
2-CHLOROETHYLVINYL	0.71 OK	0.71 OK	0.71 OK	0.71 OK	0.71 OK	0.71 OK
CHLOROFORM	3.3 <	1.5 <	4.1 <	2.7 <	3.7 <	3.4 <
CHLOROMETHANE	3.2 <	3.2 <	3.2 <	3.2 <	3.2 <	3.2 <
DIBROMOCHLOROMETHANE	0.67 <	0.67 <	0.67 <	0.67 <	0.67 <	0.67 <
1-1-DICHLOROETHANE	0.68 <	0.68 <	0.68 <	0.68 <	0.68 <	0.68 <
1-2-DICHLOROETHANE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-DICHLOROETHYLENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-2-DICHLOROETHENE-U	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-2-DICHLOROPROPANE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
CIS-1-3-DICHLORO_PRO	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <
TRANS-1-3-DICHLORO_P	0.7 <	0.7 <	0.7 <	0.7 <	0.7 <	0.7 <
ETHYLBENZENE		0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
2-HEXANONE		3.6 <	3.6 <	3.6 <	3.6 <	3.6 <
METHYLENE_CHLORIDE		2.3 <	2.3 <	2.3 <	2.3 <	2.3 <
METHYL_ISOBUTKETONE		3 <	3 <	3 <	3 <	3 <
STYRENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-2-2-TETRACHLORO_	0.51 <	0.51 <	0.51 <	0.51 <	0.51 <	0.51 <
TETRACHLOROETHENE	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <
TOLUENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-1-TRICHLETHANE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-2-TRICHLETHANE	1.2 <	1.2 <	1.2 <	1.2 <	1.2 <	1.2 <
TRICHLOROETHENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
TRICHLOROFLUORO-_MET	1.4 <	1.4 <	1.4 <	1.4 <	1.4 <	1.4 <
VINYL_ACETATE	8.3 <	8.3 <	8.3 <	8.3 <	8.3 <	8.3 <
VINYL_CHLORIDE	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <
XYLENES-_TOTAL	0.84 <	0.84 <	0.84 <	0.84 <	0.84 <	0.84 <
DICHLOROBENZENE-TOT.	10 <	10 <	10 <	10 <	10 <	10 <
ACROLEIN	100 <	100 <	100 <	100 <	100 <	100 <
ACRYLONITRILE	100 <	100 <	100 <	100 <	100 <	100 <
1-3-DINITROBENZENE	0.611 <	0.611 OK	0.611 <	0.611 <	0.611 <	0.611 <
2-4-DINITROTOLUENE	0.064 <	0.149 <	0.064 <	0.064 <	0.064 <	0.064 <
2-6-DINITROTOLUENE	0.074 OK	0.074 OK	0.074 <	0.074 <	0.074 <	0.074 <
HMX	9.87 <	26.7 <	1.21 <	1.21 <	1.21 <	1.21 <
NITROBENZENE	0.645 OK	0.645 OK	0.645 OK	0.645 <	0.645 <	0.645 <
RDX	15.5 <	27.5 <	1.25 <	1.17 <	1.17 <	1.17 <
TETRYL-TOTAL	15.6 OK	1.6 OK	1.6 OK	1.6 <	1.6 <	1.6 <
1-3-5-TRINITROBENZEN	79.3 OK	1.05 <	0.776 <	0.449 <	0.449 <	0.449 <
2-4-6-TRINITROTOLUEN	4440 OK	0.635 <	0.635 <	0.635 <	0.635 <	0.635 <
ALUMINUM-TOTAL	869 OK	141 OK	141 OK	141 OK	141 OK	141 OK
BARIUM-TOTAL	62.6 <	63.2 <	35.2 <	24.8 <	26.5 <	130 <
BERYLLIUM-T	5 OK	5 OK	5 OK	5 OK	5 OK	5 OK
CALCIUM_(UG/L-CA)	64000 <	58400 <	47000 <	41100 <	47500 <	79900 <
CADMIUM-TOTAL	4.01 <	4.01 <	4.01 <	4.01 <	4.01 <	4.01 <
COBALT-TOTAL	25 <	25 <	25 <	25 <	25 <	25 <
CHROMIUM-TOTAL	6.02 OK	6.02 <	6.02 <	6.02 <	6.02 <	6.02 OK
COPPER-TOTAL	10.3 <	8.09 <	8.09 <	8.09 OK	8.09 <	12.6 <
IRON-TOTAL	38.8 OK	38.8 OK	38.8 OK	427 OK	38.8 OK	38.8 OK
POTASSIUM-_TOTAL	4140 OK	2990 OK	3410 OK	2430 OK	2440 OK	3260 OK
MAGNESIUM_(UG/L-MG)	5560 OK	19300 <	18500 <	16000 <	15200 OK	16600 <
MANGANESE-TOTAL	34.4 OK	2.8 OK	2.8 OK	2.8 OK	4.9 OK	2.8 OK
SODIUM_(UG/L-NA)	14500 <	17900 <	17100 <	8270 <	4670 <	2940 <
NICKEL-TOTAL	34.3 <	34.3 <	34.3 <	34.3 <	34.3 <	34.3 <
ANTIMONY-TOTAL	38 <	38 <	38 <	38 <	38 <	38 <
THALLIUM	7 OK	7 OK	7 OK	7 OK	7 OK	7 OK
ZINC-TOTAL	49.8 OK	48.7 OK	96.6 <	322 OK	201 <	367 OK
LEAD-TOTAL	2 <	2.7 <	1.3 <	1.6 <	1.3 <	2 <
SELENIUM-TOTAL	3 <	3 <	3 <	3 <	3 <	3 <
ARSENIC-TOTAL	2.54 <	2.54 <	2.54 OK	2.54 <	2.54 <	2.54 <

GF*SEQ	JAYW*226	JAYW*227	JAYW*228	JAYW*229	JAYW*230	JAYW*231
ID	RBWGW2501	RBWGW2601	RBWGW2701	RBWGW2801	RBWGW2901	RBWGW3001
SILVER-TOTAL	4.6 <	4.6 <	5.51 <	4.6 <	4.6 <	4.6 <
VANADIUM-TOTAL	11 <	11 <	11 <	11 <	11 <	11 <
MERCURY	0.2	0.2 <	0.2 <	0.2 <	0.2 <	0.2 <
ACENAPHTHENE		1.7 <	1.7 <	1.7 <	1.7 <	1.7 <
ACENAPHTHYLENE		0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
ANTHRACENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
BENZO(A)ANTHRACENE	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <
BENZO(B)FLUORANTHENE	5.4 <	5.4 <	5.4 <	5.4 <	5.4 <	5.4 <
BENZO(K)FLUORANTHENE	0.87 <	0.87 <	0.87 <	0.87 <	0.87 <	0.87 <
BENZOIC_ACID	13 <	13 <	13 <	13 <	13 <	13 <
BENZO(GHI)PERYLENE	6.1 <	6.1 <	6.1 <	6.1 <	6.1 <	6.1 <
BENZO(A)PYRENE	4.7 <	4.7 <	4.7 <	4.7 <	4.7 <	4.7 <
BENZYL_ALCOHOL	0.72 <	0.72 <	0.72 <	0.72 <	0.72 <	0.72 <
BIS(2-CHLOROETHOXY)_METHANE		1.5 <	1.5 <	1.5 <	1.5 <	1.5 <
BIS(2-CHLOROETHYL)_ETHER		1.9 <	1.9 <	1.9 <	1.9 <	1.9 <
BIS(2-CHLISOPROPYL)_ETHER		5.3 <	5.3 OK	5.3 <	5.3 <	5.3 <
BIS(2-ETHYLHEXYL)_PHTHALATE		4.8 <	4.9 <	4.8 <	4.8 <	4.8 <
4-BROMOPHENYLPHENYL	4.2 <	4.2 <	4.2 <	4.2 <	4.2 <	4.2 <
BUTYLBENZYLPHTHALATE	3.4 <	3.4 <	3.4 <	3.4 <	3.4 <	3.4 <
4-CHLOROANILINE	7.3 <	7.3 <	7.3 <	7.3 <	7.3 <	7.3 <
4-CHL-3-METHPHENOL	4 <	4 <	4 <	4 <	4 <	4 <
2-CHLORONAPHTHALENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
2-CHLOROPHENOL	0.99 <	0.99 <	0.99 <	0.99 <	0.99 <	0.99 <
4-CHLOROPHENYLPHENYL	5.1 <	5.1 <	5.1 <	5.1 <	5.1 <	5.1 <
CHRYSENE	2.4 <	2.4 <	2.4 <	2.4 <	2.4 <	2.4 <
DIBEN(A-H)ANTHCENE		6.5 <	6.5 <	6.5 <	6.5 <	6.5 <
DIBENZOFURAN		1.7 <	1.7 <	1.7 <	1.7 <	1.7 <
1-2-DICHLOROBENZENE		1.7 <	1.7 <	1.7 <	1.7 <	1.7 <
1-3-DICHLOROBENZENE		1.7 <	1.7 <	1.7 <	1.7 <	1.7 <
1-4-DICHLOROBENZENE	1.7 <	1.7 <	1.7 <	1.7 <	1.7 <	1.7 <
3-3-DICHLBENZIDINE	12 <	12 <	12 <	12 <	12 <	12 <
2-4-DICHLOROPHENOL	2.9 <	2.9 <	2.9 <	2.9 <	2.9 <	2.9 <
DIETHYLPHTHALATE	2 <	2 <	2 <	2 <	2 <	2 <
2-4-DIMETHYLPHENOL	5.8 <	5.8 <	5.8 <	5.8 <	5.8 <	5.8 <
DIMETHYLPTHALATE	1.5 <	1.5 <	1.5 <	1.5 <	1.5 <	1.5 <
DI-N-BUTYLPHTHALATE	3.7 <	3.7 <	3.7 <	3.7 <	3.7 <	3.7 <
2-4-DINITROPHENOL	21 <	21 <	21 <	21 <	21 <	21 <
2-4-DINITROTOLUENE		4.5 <	4.5 <	4.5 <	4.5 <	4.5 <
2-6-DINITROTOLUENE		0.79 <	0.79 <	0.79 <	0.79 <	0.79 <
DI-N-OCTYLPHTHALATE		15 <	15 <	15 <	15 <	15 <
FLUORANTHENE		3.3 <	3.3 <	3.3 <	3.3 <	3.3 <
FLUORENE	3.7 <	3.7 <	3.7 <	3.7 <	3.7 <	3.7 <
HEXACHLOROBENZENE	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <
HEXACHLOROBUTADIENE	3.4 <	3.4 <	3.4 <	3.4 <	3.4 <	3.4 <
HEXACHLOROCYCLOPENTA	8.6 <	8.6 <	8.6 <	8.6 <	8.6 <	8.6 <
HEXACHLOROETHANE	1.5 <	1.5 <	1.5 <	1.5 <	1.5 <	1.5 <
INDENO(1-2-3-CD)_PYR	8.6 <	8.6 <	8.6 <	8.6 <	8.6 <	8.6 <
ISOPHORONE	4.8 <	4.8 <	4.8 <	4.8 <	4.8 <	4.8 <
2-METHYL-4-6-DINITRO	17 <	17 <	17 <	17 <	17 <	17 <
2-METHLYNAPHTHALENE		1.7 <	1.7 <	1.7 <	1.7 <	1.7 <
2-METHYL_PHENOL		3.9	3.9	3.9	3.9	3.9

GF*SEQ	JSRW*26	JSRW*27	JSRW*29	JSRW*30	JAYW*276	JAYW*277
ID	TRIP26	TRIP27	TRIP29	TRIP30	TRIP31	TRIP32
COLL_DATE	09/14/92	09/15/92	09/17/92	09/16/92	09/21/92	09/21/92
COL_TIME			10:00		17:45	17:45
SAMPLE_TYPE	SO	SO	GW	GW	GW	GW
SITE	TRIP	TRIP	TRIP	TRIP	TRIP	TRIP
STAT3	OK	OK	OK	OK	OK	OK
DEPTH_FT	0	0	0	0	0	0
SAMPLING_TECHNIQUE	G	G	G	G	G	G
INSTALLATION_CODE	IA	IA	IA	IA	IA	IA
FIELD_I.D.-#	TRIP26	TRIP27	TRIP29	TRIP30	TRIP32	TRIP32
ACETONE-UG/L	13 <	13 <	13 <	13 <	13 <	13 <
BENZENE-UG/L	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
BROMODICHLOROMETHANE	0.59 <	0.59 <	0.59 <	0.59 <	0.59 <	0.59 <
BROMOFORM-UG/L	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <
BROMOMETHANE-UG/L	5.8 <	5.8 <	5.8 <	5.8 <	5.8 <	5.8 <
METHYL_ETHYL_KETONE	6.4 <	6.4 <	6.4 <	6.4 <	6.4 <	6.4 <
CARBON_DISULFIDE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
CARBON_TETRACHLORIDE	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <
CHLOROBENZENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
CHLOROETHANE	1.9 <	1.9 <	1.9 <	1.9 <	1.9 <	1.9 <
2-CHLOROETHYLVINYL	0.71 <	0.71 <	0.71 <	0.71 <	0.71 <	0.71 <
CHLOROFORM	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
CHLOROMETHANE	3.2 <	3.2 <	3.2 <	3.2 <	3.2 <	3.2 <
DIBROMOCHLOROMETHANE	0.67 <	0.67 <	0.67 <	0.67 <	0.67 <	0.67 <
1-1-DICHLOROETHANE	0.68 <	0.68 <	0.68 <	0.68 <	0.68 <	0.68 <
1-2-DICHLOROETHANE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-DICHLOROETHYLENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-2-DICHLOROETHENE-U	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-2-DICHLOROPROPANE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
CIS-1-3-DICHLORO_PRO	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <	0.58 <
TRANS-1-3-DICHLORO_P	0.7 <	0.7 <	0.7 <	0.7 <	0.7 <	0.7 <
ETHYLBENZENE	0.5 <	0.5 <		0.5 <	0.5 <	0.5 <
2-HEXANONE	3.6 <	3.6 <		3.6 <	3.6 <	3.6 <
METHYLENE_CHLORIDE	2.3 <	2.3 <		2.3 <	2.3 <	2.3 <
METHYL_ISOBUTKETONE	3 <	3 <		3 <	3 <	3 <
STYRENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-2-2-TETRACHLORO_	0.51 <	0.51 <	0.51 <	0.51 <	0.51 <	0.51 <
TETRACHLOROETHENE	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <	1.6 <
TOLUENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-1-TRICHLETHANE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
1-1-2-TRICHLETHANE	1.2 <	1.2 <	1.2 <	1.2 <	1.2 <	1.2 <
TRICHLOROETHENE	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <	0.5 <
TRICHLOROFLUORO-_MET	1.4 <	1.4 <	1.4 <	1.4 <	1.4 <	1.4 <
VINYL_ACETATE	8.3 <	8.3 <	8.3 <	8.3 <	8.3 <	8.3 <
VINYL_CHLORIDE	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <	2.6 <
XYLENES-_TOTAL	0.84 <	0.84 <	0.84 <	0.84 <	0.84 <	0.84 <
DICHLOROBENZENE-TOT.	10 <	10 <	10 <	10 <	10 <	10 <
ACROLEIN	100 <	100 <	100 <	100 <	100 <	100 <
ACRYLONITRILE	100	100	100	100	100	100
1-3-DINITROBENZENE						
2-4-DINITROTOLUENE						
2-6-DINITROTOLUENE						
HMX						
NITROBENZENE						
RDX						
TETRYL-TOTAL	1.6 <		1.6 <		1.6 <	
1-3-5-TRINITROBENZEN	0.449 <		0.449 <		0.449 <	
2-4-6-TRINITROTOLUEN	0.635 <		0.635 OK		0.635 <	
ALUMINUM-TOTAL	141 <		363 OK		141 OK	
BARIUM-TOTAL						
BERYLLIUM-T						
CALCIUM_(UG/L-CA)						
CADMIUM-TOTAL						
COBALT-TOTAL						
CHROMIUM-TOTAL						
COPPER-TOTAL						
IRON-TOTAL						
POTASSIUM-_TOTAL	375 <		1520 OK		2190 OK	
MAGNESIUM_(UG/L-MG)	500 <		1280 OK		33000 OK	
MANGANESE-TOTAL	2.8 <		41.2 OK		8.8 OK	
SODIUM_(UG/L-NA)	500 <		692 <		23800 <	
NICKEL-TOTAL						
ANTIMONY-TOTAL						
THALLIUM						
ZINC-TOTAL						
LEAD-TOTAL						
SELENIUM-TOTAL						
ARSENIC-TOTAL						

GF*SEQ ID	JSRW*26 TRIP26	JSRW*27 TRIP27	JSRW*29 TRIP29	JSRW*30 TRIP30	JAYW*276 TRIP31	JAYW*277 TRIP32
SILVER-TOTAL						
VANADIUM-TOTAL	11 <		11 <		11 <	
MERCURY	0.2		0.2		0.2 <	
ACENAPHTHENE					1.7 <	
ACENAPHTHYLENE					0.5 <	
ANTHRACENE						
BENZO(A)ANTHRACENE						
BENZO(B)FLUORANTHENE						
BENZO(K)FLUORANTHENE						
BENZOIC_ACID						
BENZO(GHI)PERYLENE						
BENZO(A)PYRENE						
BENZYL_ALCOHOL						
BIS(2-CHLOROETHOXY)_METHANE					1.5 <	
BIS(2-CHLOROETHYL)_ETHER					1.9 <	
BIS(2-CHLISOPROPYL)_ETHER					5.3 <	
BIS(2-ETHYLHEXYL)_PHTHALATE					4.8 <	
4-BROMOPHENYLPHENYL_ETHER						
BUTYLBENZYLPHTHALATE						
4-CHLOROANILINE						
4-CHL-3-METHPHENOL						
2-CHLORONAPHTHALENE						
2-CHLOROPHENOL						
4-CHLOROPHENYLPHENYL_ETHER						
CHRYSENE						
DIBEN(A-H)ANTHCENE					6.5 <	
DIBENZOFURAN					1.7 <	
1-2-DICHLOROBENZENE					1.7 <	
1-3-DICHLOROBENZENE					1.7 <	
1-4-DICHLOROBENZENE						
3-3-DICHLBENZIDINE						
2-4-DICHLOROPHENOL						
DIETHYLPHTHALATE						
2-4-DIMETHYLPHENOL						
DIMETHYLPTHALATE						
DI-N-BUTYLPHTHALATE						
2-4-DINITROPHENOL						
2-4-DINITROTOLUENE					4.5 <	
2-6-DINITROTOLUENE					0.79 <	
DI-N-OCTYLPHTHALATE					15 <	
FLUORANTHENE					3.3 <	
FLUORENE						
HEXACHLOROBENZENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROETHANE						
INDENO(1-2-3-CD)_PYRENE						
ISOPHORONE						
2-METHYL-4-6-DINITROPHENOL						
2-METHLYNAPHTHALENE					1.7 <	
2-METHYL_PHENOL					3.9	

GF*SEQ	JSRW*18		JSRW*19		JSRW*20		JSRW*21		JSRW*22		JSRW*23	
ID	SUEB0101		SUEB0201		SUEB0301		SUEB0401		SUEB0501		SUEB0601	
COLL_DATE	09/16/92		09/16/92		09/16/92		09/17/92		09/17/92		09/17/92	
COL TIME	07:00		07:30		07:45		10:00		10:05		10:10	
SAMPLE TYPE	GW		GW		GW		GW		GW		GW	
SITE	RNSW		RNSW		RNSW		RNSW		RNSW		RNSW	
STAT3	OK		OK		OK		OK		OK		OK	
DEPTH FT	0		0		0		0		0		0	
SAMPLING_TECHNIQUE	G		G		G		G		G		G	
INSTALLATION_CODE	IA		IA		IA		IA		IA		IA	
FIELD I.D.-#	EB0101		EB0201		EB0301		EB0401		EB0501		EB0601	
ACETONE-UG/L	13	OK	13	OK	13	OK	13	OK	13	OK	13	OK
BENZENE-UG/L	0.96	<	0.91	<	0.93	<	1.05	<	0.91	<	1	<
BROMODICHLOROMETHANE	0.59	<	0.59	<	0.59	<	0.59	<	0.59	<	0.59	<
BROMOFORM-UG/L	2.6	<	2.6	<	2.6	<	2.6	<	2.6	<	2.6	<
BROMOMETHANE-UG/L	5.8	<	5.8	<	5.8	<	5.8	<	5.8	<	5.8	<
METHYL_ETHYL_KETONE	6.4	<	6.4	<	6.4	<	6.4	<	6.4	<	6.4	<
CARBON_DISULFIDE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
CARBON_TETRACHLORIDE	0.58	<	0.58	<	0.58	<	0.58	<	0.58	<	0.58	<
CHLOROBENZENE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
CHLOROETHANE	1.9	<	1.9	<	1.9	<	1.9	<	1.9	<	1.9	<
2-CHLOROETHYLVINYL	0.71	OK	0.71	OK	0.71	OK	0.71	OK	0.71	OK	0.71	OK
CHLOROFORM	9.2	<	8.7	<	8.8	<	7.4	<	7.8	<	8	<
CHLOROMETHANE	3.2	<	3.2	<	3.2	<	3.2	<	3.2	<	3.2	<
DIBROMOCHLOROMETHANE	0.67	<	0.67	<	0.67	<	0.67	<	0.67	<	0.67	<
1-1-DICHLOROETHANE	0.68	<	0.68	<	0.68	<	0.68	<	0.68	<	0.68	<
1-2-DICHLOROETHANE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1-1-DICHLOROETHYLENE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1-2-DICHLOROETHENE-U	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1-2-DICHLOROPROPANE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
CIS-1-3-DICHLORO_PRO	0.58	<	0.58	<	0.58	<	0.58	<	0.58	<	0.58	<
TRANS-1-3-DICHLORO_P	0.7	<	0.7	<	0.7	<	0.7	<	0.7	<	0.7	<
ETHYLBENZENE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
2-HEXANONE	3.6	<	3.6	<	3.6	<	3.6	<	3.6	<	3.6	<
METHYLENE_CHLORIDE	2.3	<	2.3	<	2.3	<	2.3	<	2.3	<	2.3	<
METHYL_ISOBUTKETONE	3	<	3	<	3	<	3	<	3	<	3	<
STYRENE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1-1-2-2-TETRACHLORO_	0.51	<	0.51	<	0.51	<	0.51	<	0.51	<	0.51	<
TETRACHLOROETHENE	1.6	<	1.6	<	1.6	<	1.6	<	1.6	<	1.6	<
TOLUENE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1-1-1-TRICHLETHANE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
1-1-2-TRICHLETHANE	1.2	<	1.2	<	1.2	<	1.2	<	1.2	<	1.2	<
TRICHLOROETHENE	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<
TRICHLOROFLUORO-_MET	1.4	<	1.4	<	1.4	<	1.4	<	1.4	<	1.4	<
VINYL_ACETATE	8.3	<	8.3	<	8.3	<	8.3	<	8.3	<	8.3	<
VINYL_CHLORIDE	2.6	<	2.6	<	2.6	<	2.6	<	2.6	<	2.6	<
XYLENES-_TOTAL	0.84	<	0.84	<	0.84	<	0.84	<	0.84	<	0.84	<
DICHLOROBENZENE-TOT.	10	<	10	<	10	<	10	<	10	<	10	<
ACROLEIN	100	<	100	<	100	<	100	<	100	<	100	<
ACRYLONITRILE	100	<	100	<	100	<	100	<	100	<	100	<
1-3-DINITROBENZENE	0.611	<	0.611	<	0.611	<	0.611	<	0.611	<	0.611	<
2-4-DINITROTOLUENE	0.064	<	0.064	<	0.064	<	0.064	<	0.064	<	0.064	<
2-6-DINITROTOLUENE	0.074	<	0.074	<	0.074	<	0.074	<	0.074	<	0.074	<
HMX	1.21	<	1.21	<	1.21	<	1.21	<	1.21	<	1.21	<
NITROBENZENE	0.645	<	0.645	<	0.645	<	0.645	<	0.645	<	0.645	<
RDX	1.17	<	1.17	<	1.17	<	1.17	<	1.17	<	1.17	<
TETRYL-TOTAL	1.6	<	1.6	<	1.6	<	1.6	<	1.6	<	1.6	<
1-3-5-TRINITROBENZEN	0.449	<	0.449	<	0.449	<	0.449	<	0.449	<	0.449	<
2-4-6-TRINITROTOLUEN	0.635	<	0.635	<	0.635	<	0.635	<	0.635	<	0.635	<
ALUMINUM-TOTAL	141	<	141	<	141	<	141	<	141	<	141	<
BARIUM-TOTAL	5	<	5	<	5	<	5	<	5	<	5	<
BERYLLIUM-T	5	<	5	<	5	<	5	<	5	<	5	<
CALCIUM_(UG/L-CA)	500	<	500	<	500	<	500	<	500	<	500	<
CADMIUM-TOTAL	4.01	<	4.01	<	4.01	<	4.01	<	4.01	<	4.01	<
COBALT-TOTAL	25	<	25	<	25	<	25	<	25	<	25	<
CHROMIUM-TOTAL	6.02	<	6.02	<	6.02	<	6.02	<	6.02	<	6.02	<
COPPER-TOTAL	8.09	OK	8.09	<	8.09	<	8.09	<	8.09	<	8.09	<
IRON-TOTAL	48.5	OK	38.8	OK	38.8	OK	38.8	<	38.8	<	38.8	<
POTASSIUM-_TOTAL	615	<	1020	<	703	<	1130	<	375	<	375	<
MAGNESIUM_(UG/L-MG)	500	<	500	<	500	<	500	<	500	OK	500	<
MANGANESE-TOTAL	2.8	<	2.8	<	2.8	<	2.8	<	4.9	<	2.8	<
SODIUM_(UG/L-NA)	500	<	500	<	500	<	500	<	500	<	500	<
NICKEL-TOTAL	34.3	<	34.3	<	34.3	<	34.3	<	34.3	<	34.3	<
ANTIMONY-TOTAL	38	<	38	<	38	<	38	<	38	<	38	<
THALLIUM	7	<	7	<	7	<	7	<	7	<	7	<
ZINC-TOTAL	21.1	OK	21.1	OK	21.1	OK	21.1	OK	21.1	OK	21.1	<
LEAD-TOTAL	1.4	<	2.3	<	2.4	<	2.4	<	1.5	<	1.3	<
SELENIUM-TOTAL	3	<	3	<	3	<	3	<	3	<	3	<
ARSENIC-TOTAL	2.54	<	2.54	<	2.54	<	2.54	<	2.54	<	2.54	<

GF*SEQ	JSRW*18	JSRW*19	JSRW*20	JSRW*21	JSRW*22	JSRW*23
ID	SUEB0101	SUEB0201	SUEB0301	SUEB0401	SUEB0501	SUEB0601
SILVER-TOTAL	4.6 <	4.6 <	4.6 <	4.6 <	4.6 <	4.6 <
VANADIUM-TOTAL	11 <	11 <	11 <	11 <	11 <	11 <
MERCURY	0.2	0.2	0.2	0.2	0.2	0.2
ACENAPHTHENE						
ACENAPHTHYLENE						
ANTHRACENE						
BENZO(A)ANTHRACENE						
BENZO(B)FLUORANTHENE						
BENZO(K)FLUORANTHENE						
BENZOIC_ACID						
BENZO(GHI)PERYLENE						
BENZO(A)PYRENE						
BENZYL_ALCOHOL						
BIS(2-CHLOROETHOXY)_METHANE						
BIS(2-CHLOROETHYL)_ETHER						
BIS(2-CHLISOPROPYL)_ETHER						
BIS(2-ETHYLHEXYL)_PHTHALATE						
4-BROMOPHENYLPHENYL_ETHER						
BUTYLBENZYLPHTHALATE						
4-CHLOROANILINE						
4-CHL-3-METHPHENOL						
2-CHLORONAPHTHALENE						
2-CHLOROPHENOL						
4-CHLOROPHENYLPHENYL_ETHER						
CHRYSENE						
DIBEN(A-H)ANTHCENE						
DIBENZOFURAN						
1-2-DICHLOROBENZENE						
1-3-DICHLOROBENZENE						
1-4-DICHLOROBENZENE						
3-3-DICHLBENZIDINE						
2-4-DICHLOROPHENOL						
DIETHYLPHTHALATE						
2-4-DIMETHYLPHENOL						
DIMETHYLPTHALATE						
DI-N-BUTYLPHTHALATE						
2-4-DINITROPHENOL						
2-4-DINITROTOLUENE						
2-6-DINITROTOLUENE						
DI-N-OCTYLPHTHALATE						
FLUORANTHENE						
FLUORENE						
HEXACHLOROBENZENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROETHANE						
INDENO(1-2-3-CD)_PYRENE						
ISOPHORONE						
2-METHYL-4-6-DINITROPHENOL						
2-METHLYNAPHTHALENE						
2-METHYL_PHENOL						

GF*SEQ	JSRW*24		JSRW*25		JSRW*36	
ID	SUEB0701		SUEB0801		SUEB0901	
COLL_DATE	09/17/92		09/18/92		09/18/92	
COL TIME	10:15		14:00		14:15	
SAMPLE TYPE	GW		SW		SW	
SITE	RNSW		RNSW		RNSW	
STAT3	OK		OK		OK	
DEPTH FT	0		0		0	
SAMPLING_TECHNIQUE	G		G		G	
INSTALLATION_CODE	IA		IA		IA	
FIELD I.D.-#	EB0701		EB0801		EB0901	
ACETONE-UG/L	13	OK	13	OK	13	OK
BENZENE-UG/L	1.03	<	1.06	<	0.86	<
BROMODICHLOROMETHANE	0.59	<	0.59	<	0.59	<
BROMOFORM-UG/L	2.6	<	2.6	<	2.6	<
BROMOMETHANE-UG/L	5.8	<	5.8	<	5.8	<
METHYL_ETHYL_KETONE	6.4	<	6.4	<	6.4	<
CARBON_DISULFIDE	0.5	<	0.5	<	0.5	<
CARBON_TETRACHLORIDE	0.58	<	0.58	<	0.58	<
CHLOROBENZENE	0.5	<	0.5	<	0.5	<
CHLOROETHANE	1.9	<	1.9	<	1.9	<
2-CHLOROETHYLVINYL	0.71	OK	0.71	OK	0.71	OK
CHLOROFORM	9	<	7.7	<	7.4	<
CHLOROMETHANE	3.2	<	3.2	<	3.2	<
DIBROMOCHLOROMETHANE	0.67	<	0.67	<	0.67	<
1-1-DICHLOROETHANE	0.68	<	0.68	<	0.68	<
1-2-DICHLOROETHANE	0.5	<	0.5	<	0.5	<
1-1-DICHLOROETHYLENE	0.5	<	0.5	<	0.5	<
1-2-DICHLOROETHENE-U	0.5	<	0.5	<	0.5	<
1-2-DICHLOROPROPANE	0.5	<	0.5	<	0.5	<
CIS-1-3-DICHLORO_PRO	0.58	<	0.58	<	0.58	<
TRANS-1-3-DICHLORO_P	0.7	<	0.7	<	0.7	<
ETHYLBENZENE	0.5	<	0.5	<		
2-HEXANONE	3.6	<	3.6	<		
METHYLENE_CHLORIDE	2.3	<	2.3	<		
METHYL_ISOBUTKETONE	3	<	3	<		
STYRENE	0.5	<	0.5	<	0.5	<
1-1-2-2-TETRACHLORO_	0.51	<	0.51	<	0.51	<
TETRACHLOROETHENE	1.6	<	1.6	<	1.6	<
TOLUENE	0.5	<	0.5	<	0.5	<
1-1-1-TRICHLETHANE	0.5	<	0.5	<	0.5	<
1-1-2-TRICHLETHANE	1.2	<	1.2	<	1.2	<
TRICHLOROETHENE	0.5	<	0.5	<	0.5	<
TRICHLOROFLUORO-_MET	1.4	<	1.4	<	1.4	<
VINYL_ACETATE	8.3	<	8.3	<	8.3	<
VINYL_CHLORIDE	2.6	<	2.6	<	2.6	<
XYLENES-_TOTAL	0.84	<	0.84	<	0.84	<
DICHLOROBENZENE-TOT.	10	<	10	<	10	<
ACROLEIN	100	<	100	<	100	<
ACRYLONITRILE	100	<	100	<	100	<
1-3-DINITROBENZENE	0.611	<	0.611	<	0.611	<
2-4-DINITROTOLUENE	0.064	<	0.064	<	0.064	<
2-6-DINITROTOLUENE	0.074	<	0.074	<	0.074	<
HMX	1.21	<	1.21	<	1.21	<
NITROBENZENE	0.645	<	0.645	<	0.645	<
RDX	1.17	<	1.17	<	1.17	<
TETRYL-TOTAL	1.6	<	1.6	<	15.6	OK
1-3-5-TRINITROBENZEN	0.449	<	0.449	<	371	OK
2-4-6-TRINITROTOLUEN	0.635	<	0.635	<	5180	<
ALUMINUM-TOTAL	141	<	141	<	141	OK
BARIUM-TOTAL	5	<	5	<	5	<
BERYLLIUM-T	5	<	5	<	5	<
CALCIUM_(UG/L-CA)	500	<	500	<	500	<
CADMIUM-TOTAL	4.01	<	4.01	<	4.01	<
COBALT-TOTAL	25	<	25	<	25	<
CHROMIUM-TOTAL	6.02	<	6.02	<	6.02	<
COPPER-TOTAL	8.09	<	8.09	<	8.09	OK
IRON-TOTAL	38.8	<	38.8	<	53.1	OK
POTASSIUM-_TOTAL	375	<	375	<	22100	OK
MAGNESIUM_(UG/L-MG)	500	<	500	<	2290	OK
MANGANESE-TOTAL	2.8	<	2.8	<	95.9	OK
SODIUM_(UG/L-NA)	500	<	500	<	15700	<
NICKEL-TOTAL	34.3	<	34.3	<	34.3	<
ANTIMONY-TOTAL	38	<	38	<	38	<
THALLIUM	7	<	7	<	7	<
ZINC-TOTAL	21.1	<	21.1	<	21.1	OK
LEAD-TOTAL	1.3	<	1.3	<	1.8	<
SELENIUM-TOTAL	3	<	3	<	3	<
ARSENIC-TOTAL	2.54	<	2.54	<	2.54	<

GF*SEQ	JSRW*24		JSRW*25		JSRW*36	
ID	SUEB0701		SUEB0801		SUEB0901	
SILVER-TOTAL	4.6	<	4.6	<	4.6	<
VANADIUM-TOTAL	11	<	11	<	11	<
MERCURY	0.2		0.2		0.2	
ACENAPHTHENE						
ACENAPHTHYLENE						
ANTHRACENE						
BENZO(A)ANTHRACENE						
BENZO(B)FLUORANTHENE						
BENZO(K)FLUORANTHENE						
BENZOIC_ACID						
BENZO(GHI)PERYLENE						
BENZO(A)PYRENE						
BENZYL_ALCOHOL						
BIS(2-CHLOROETHOXY)_METHANE						
BIS(2-CHLOROETHYL)_ETHER						
BIS(2-CHLISOPROPYL)_ETHER						
BIS(2-ETHYLHEXYL)_PHTHALATE						
4-BROMOPHENYLPHENYL_ETHER						
BUTYLBENZYLPHTHALATE						
4-CHLOROANILINE						
4-CHL-3-METHPHENOL						
2-CHLORONAPHTHALENE						
2-CHLOROPHENOL						
4-CHLOROPHENYLPHENYL_ETHER						
CHRYSENE						
DIBEN(A-H)ANTHCENE						
DIBENZOFURAN						
1-2-DICHLOROBENZENE						
1-3-DICHLOROBENZENE						
1-4-DICHLOROBENZENE						
3-3-DICHLBENZIDINE						
2-4-DICHLOROPHENOL						
DIETHYLPHTHALATE						
2-4-DIMETHYLPHENOL						
DIMETHYLPTHALATE						
DI-N-BUTYLPHTHALATE						
2-4-DINITROPHENOL						
2-4-DINITROTOLUENE						
2-6-DINITROTOLUENE						
DI-N-OCTYLPHTHALATE						
FLUORANTHENE						
FLUORENE						
HEXACHLOROBENZENE						
HEXACHLOROBUTADIENE						
HEXACHLOROCYCLOPENTADIENE						
HEXACHLOROETHANE						
INDENO(1-2-3-CD)_PYRENE						
ISOPHORONE						
2-METHYL-4-6-DINITROPHENOL						
2-METHLYNAPHTHALENE						
2-METHYL_PHENOL						

APPENDIX F

MAPS

APPENDIX G

ACRONYMS

ACRONYMS

AST - Above Ground Tank

DNT - Dinitrotoluene (2,4 and 2,6)

HMX - Cyclotetramethylene tetra nitramine

IAAP - Iowa Army Ammunition Plant

RDX - Cyclotrimethylene trinitramine

RI/FS - Remedial Investigation/Feasibility Study

SD - Sediment

SI - Site Investigation

SOP - Standard Operating Procedures

SS - Surface Soil

SW - Sump Water

TNB - Trinitrobenzene (2,4,6)

TNT - Trinitrotoluene

USATHAMA - United States Army Toxic and Hazardous Materials Agency (Currently the AEC, Army Environmental Center)

UST - Underground Storage Tank

VOCs - Volatile Organic Compounds