Appendix A

Number

APPENDIX A

VALIDATED ANALYTICAL RESULTS FOR THE TSF DISPOSAL POND SURFICIAL SEDIMENT SAMPLES

Analytical Methods

Volatile organics	United States Environmental Protection Agency (EPA) Contract Laboratory Program (CLP)
Semivolatile organics	EPA CLP
Inorganics (metals)	EPA CLP (SOW 7/88)
Pesticides/PCBs	EPA CLP
Herbicides	SW-846 8150

DATA QUALIFIER DEFINITIONS

Organic Analysis Data Flags

A - Indicates that a tentatively identified compound is a suspected aldol-condensation product.

B - Used when the analyte is found in the associated blank as well as in the sample.

C - Applies to pesticide results where the identification has been confirmed by GC/MS.

D - Identifies all compounds identified in an analysis at a secondary dilution factor.

E - Identifies compounds which have concentrations that exceed the calibration range of the GC/MS instrument for that specific analysis

J - Indicates as estimated value.

U - Indicates compound was analyzed for but not detected.

Organic Validation Data Qualifiers

J - The analyte was positively identified in the sample, but the associated numerical value may not be an accurate representation of the amount actually present in the environmental sample. The data should be seriously considered for decision making and are usable for many purposes.

N - Presumptive evidence of the presence of the material.

NJ - Presumptive evidence of the presence of the material at an estimated quantity.

R - The data are unusable (may or may not be present). Resampling and reanalysis is necessary for verification.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFIER DEFINITIONS

Inorganic Analysis Data Flags

B - Value is less than the CRDL, but greater than the IDL.

E - Value is estimated because of the presence of interference.

N - Spiked sample recovery not within control limits.

NR - Analyte was not required to be analyzed.

S - Value was determined by the method of standard additions (MSA).

U - Analyte was analyzed for but not detected.

W - Post digestion spike for Furnace AA analysis is out of control limits (85% to 115%), while sample absorbance is less than 50% of spike absorbance.

***** - Duplicate analysis not within control limits.

Methods

A - Flame AA.

CV - Manual Cold Vapor AA.

F - Furnace AA.

NR - Not run, analyte not required to be analyzed.

P - Inductively Couple Plasma-Atomic Emission Spectrometry.

Inorganic Validation Data Qualifiers

J - The analyte was analyzed for and was positively identified, but the associated numerical value may not be consistent with the amount actually present in the environmental sample.

R - The data are unusable.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may not accurately reflect the instrument detection limit in the sample matrix.

Reference: Environmental Restoration Department, Sample Management Office Standard Operating Procedures 12.1.4 and 12.1.5 (EG&G, Idaho).

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	So OF BLDG 65	So OF BLDG 65	So OF BLDG 65	So OF BLDG 65	So OF BLDG 65	So OF BLDG 65	So OF BLDG 65
TYPE OF LOCATION	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1
SAMPLE NUMBER	TAG0189A01A	TAG0189B01A	TAG0189B02A	TAG0189C01A	TAG0189C02A	TAG0189D01A	TAG0189E01A
MEDIA	SOIL	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/kg	ug/L	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS							
Depth (ft)	0-2	5-7	5-7	10-12	10-12	15-17	20-22
TARGET COMPOUNDS							
Methylene Chloride	---	9 J	---	---	2 J	---	---
Acetone	10 J	---	10 J	24 J	68 J	---	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Vinyl Acetate	---	---	---	---	---	---	---
Bromodichloromethane	---	---	---	---	---	---	---
1,2-Dichloropropane	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	---	---	---	---	---	---
Trichloroethene	---	---	---	---	---	---	---
Dibromochloromethane	---	---	---	---	---	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---	---
Benzene	---	---	---	---	---	---	---
Trans-1,3-Dichloropropene	---	---	---	---	---	---	---
Bromoform	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	---	---	---	---	---	---	---
2-Hexanone	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---
Toluene	---	31	---	---	---	---	---
Isobutanol							
Total (Allowed) Hold Time	9(14)d	10(14)d	9(14)d	9(14)d	9(14)d	9(14)d	9(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	So OF BLDG 65	So OF BLDG 65	So OF BLDG 60	So OF BLDG 60	So OF BLDG 60	So OF BLDG 60	So OF BLDG 60
TYPE OF LOCATION	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2
SAMPLE NUMBER	TAG0189H01A	TAG0189K01A	TAG0289A01A	TAG0289B01B	TAG0289B02A	TAG0289C01A	TAG0289D01A
MEDIA	SOIL	SOIL	SOIL	WATER	WATER	SOIL	SOIL
UNITS	ug/kg	ug/kg	ug/kg	ug/L	ug/L	ug/kg	ug/kg
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS							
Depth (ft)	35-37	50-52	0-2	5-7	5-7	10-12	15-17
TARGET COMPOUNDS							
Methylene Chloride	1 J	---	---	16 J	---	---	---
Acetone	43 J	18	18 J	---	---	19 J	16 J
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Vinyl Acetate	---	---	---	---	---	---	---
Bromodichloromethane	---	---	---	---	---	---	---
1,2-Dichloropropane	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	---	---	---	---	---	---
Trichloroethene	---	---	---	---	---	---	---
Dibromochloromethane	---	---	---	---	---	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---	---
Benzene	---	---	---	---	---	---	---
Trans-1,3-Dichloropropene	---	---	---	---	---	---	---
Bromoform	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	---	---	---	---	---	---	---
2-Hexanone	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---
Toluene	1 J	---	1 J	32	31	---	---
Isobutanol							
Total (Allowed) Hold Time	9(14)d	9(14)d	8(14)d	10(14)d	10(14)d	8(14)d	8(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	So OF BLDG 60	So OF BLDG 60	So OF BLDG 60	So OF BLDG 60	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3
SAMPLE NUMBER	TAG0289D02A	TAG0289E01A	TAG0289F01A	TAG0289H01A	TAG0389A01A	TAG0389B01A	TAG0389B01B
MEDIA	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS							
Depth (ft)	15-17	20-22	25-27	35-37	0-2	5-7	5-7
TARGET COMPOUNDS							
Methylene Chloride	---	---	---	---	---	6 J	5 J
Acetone	68 J	24 J	---	24 J	---	42 J	120 J
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Vinyl Acetate	---	---	---	---	---	---	---
Bromodichloromethane	---	---	---	---	---	---	---
1,2-Dichloropropane	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	---	---	---	---	---	---
Trichloroethene	---	---	---	5	---	---	---
Dibromochloromethane	---	---	---	---	---	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---	---
Benzene	---	---	---	---	---	---	---
Trans-1,3-Dichloropropene	---	---	---	---	---	---	---
Bromoform	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	---	---	---	---	---	---	---
2-Hexanone	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---
Toluene	---	1 J	---	---	15	3 J	2 J
Isobutanol							
Total (Allowed) Hold Time	8(14)d	8(14)d	8(14)d	8(14)d	11(14)d	22(14)d*	22(14)d*
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3
SAMPLE NUMBER	TAG0389B02A	TAG0389B02ADL	TAG0389B02B	TAG0389C01A	TAG0389C02A	TAG0389D01A	TAG0389E01A
MEDIA	WATER	WATER	WATER	SOIL	SOIL	SOIL	SOIL
UNITS	ug/L	ug/L	ug/L	ug/kg	ug/kg	ug/kg	ug/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS							
Depth (ft)	5-7	5-7	5-7	10-12	10-12	15-17	20-22
TARGET COMPOUNDS							
Methylene Chloride	5 J	5 JD	5 J	---	---	---	---
Acetone	210 J	190 DJ	27 J	---	27	10 J	6 J
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene (total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Vinyl Acetate	---	---	---	---	---	---	---
Bromodichloromethane	---	---	---	---	---	---	---
1,2-Dichloropropane	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	---	---	---	---	---	---
Trichloroethene	---	---	---	---	---	---	---
Dibromochloromethane	---	---	---	---	---	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---	---
Benzene	---	---	---	---	---	---	---
Trans-1,3-Dichloropropene	---	---	---	---	---	---	---
Bromoform	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	---	---	---	---	---	---	---
2-Hexanone	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---
Toluene	2 J	2 JD	2 J	5	---	1 J	---
Isobutanol							
Total (Allowed) Hold Time	22(14)d*	23(14)d*	23(14)d*	11(14)d	11(14)d	11(14)d	11(14)d
Dilution Factor	1.000	2.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #3	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4
SAMPLE NUMBER	TAG0389F01A	TAG0489A01A	TAG0489B01A	TAG0489B02A	TAG0489C01A	TAG0489D01A	TAG0489D02A
MEDIA	SOIL	SOIL	WATER	SOIL	SOIL	SOIL	SOIL
UNITS	ug/kg	ug/kg	ug/L	ug/kg	ug/kg	ug/kg	ug/kg
SDG NUMBER	TAGEQ89001	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS							
Depth (ft)	25-27	0-2	5-7	5-7	10-12	15-17	15-17
TARGET COMPOUNDS							
Methylene Chloride	---	---	57 J	---	---	---	---
Acetone	---	---	95	---	---	---	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Vinyl Acetate	---	---	---	---	---	---	---
Bromodichloromethane	---	---	---	---	---	---	---
1,2-Dichloropropane	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	---	---	---	---	---	---
Trichloroethene	---	---	---	---	---	---	---
Dibromochloromethane	---	---	---	---	---	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---	---
Benzene	---	---	---	---	---	---	---
Trans-1,3-Dichloropropene	---	---	---	---	---	---	---
Bromoform	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	---	---	---	---	---	---	---
2-Hexanone	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---
Toluene	2 J	13	24	3 J	2 J	3 J	---
Isobutanol							
Total (Allowed) Hold Time	11(14)d	7(14)d	11(14)d	7(14)d	2(14)d	6(14)d	6(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5
SAMPLE NUMBER	TAG0489E01A	TAG0489F01A	TAG0489J01A	TAG0589A01A	TAG0589B01A	TAG0589B01ADL	TAG0589C01A
MEDIA	SOIL	SOIL	SOIL	SOIL	WATER	WATER	SOIL
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/L	ug/kg
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS							
Depth (ft)	20-22	25-27	45-47	0-2	5-7	5-7	10-12
TARGET COMPOUNDS							
Methylene Chloride	2 J	---	---	1 J	78 J	41 DJ	4 J
Acetone	---	8 J	---	---	280 J	180 DJ	---
Carbon Disulfide	---	---	---	---	5 J	---	---
1,1-Dichloroethene	---	---	---	---	5 J	---	---
1,1-Dichloroethane	---	---	---	---	5 J	---	---
1,2-Dichloroethene_(total)	---	---	---	---	5 J	---	---
Chloroform	---	---	---	---	5 J	---	---
1,2-Dichloroethane	---	---	---	---	5 J	---	---
2-Butanone	---	---	---	---	10 J	---	---
1,1,1-Trichloroethane	---	---	---	---	5 J	---	---
Carbon Tetrachloride	---	---	---	---	5 J	---	---
Vinyl Acetate	---	---	---	---	10 J	---	---
Bromodichloromethane	---	---	---	---	5 J	---	---
1,2-Dichloropropane	---	---	---	---	5 J	---	---
cis-1,3-Dichloropropene	---	---	---	---	5 J	---	---
Trichloroethene	---	---	---	---	5 J	---	---
Dibromochloromethane	---	---	---	---	5 J	---	---
1,1,2-Trichloroethane	---	---	---	---	5 J	---	---
Benzene	---	---	---	---	5 J	---	---
Trans-1,3-Dichloropropene	---	---	---	---	5 J	---	---
Bromoform	---	---	---	---	5 J	---	---
4-Methyl-2-Pentanone	---	---	---	---	10 J	---	---
2-Hexanone	---	---	---	---	10 J	---	---
Tetrachloroethene	---	---	---	---	5 J	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	5 J	---	---
Toluene	---	---	---	17	33 J	27 DJ	---
Isobutanol							
Total (Allowed) Hold Time	6(14)d	7(14)d	6(14)d	9(14)d	18(14)d*	18(14)d*	10(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000	2.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6
SAMPLE NUMBER	TAG0589C02A	TAG0589D01A	TAG0589E01A	TAG0589K01A	TAG0689A01A	TAG0689B01A	TAG0689B02A
MEDIA	SOIL	SOIL	SOIL	SOIL	SOIL	WATER	SOIL
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/L	ug/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS							
Depth (ft)	10-12	15-17	20-22	50-52	0-2	5-7	5-7
TARGET COMPOUNDS							
Methylene Chloride	1 J	2 J	2 J	---	---	19 J	---
Acetone	---	---	---	---	---	33 J	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Vinyl Acetate	---	---	---	---	---	---	---
Bromodichloromethane	---	---	---	---	---	---	---
1,2-Dichloropropane	---	---	---	---	---	---	---
cis-1,3-Dichloropropene	---	---	---	---	---	---	---
Trichloroethene	---	---	---	---	---	---	---
Dibromochloromethane	---	---	---	---	---	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---	---
Benzene	---	---	---	---	---	---	---
Trans-1,3-Dichloropropene	---	---	---	---	---	---	---
Bromoform	---	---	---	---	---	---	---
4-Methyl-2-Pentanone	---	---	---	---	---	---	---
2-Hexanone	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	---	---	---
Toluene	2 J	---	3 J	---	---	4 J	---
Isobutanol							
Total (Allowed) Hold Time	9(14)d	10(14)d	9(14)d	8(14)d	9(14)d	18(14)d*	9(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #7
SAMPLE NUMBER	TAG0689C01A	TAG0689D01A	TAG0689D02A	TAG0689E01A	TAG0689F01A	TAG0789N01A
MEDIA	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS						
Depth (ft)	10-12	15-17	15-17	20-22	25-27	63-64
TARGET COMPOUNDS						
Methylene Chloride	---	---	---	---	---	---
Acetone	---	---	74 J	120 J	---	---
Carbon Disulfide	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---
Vinyl Acetate	---	---	---	---	---	---
Bromodichloromethane	---	---	---	---	---	---
1,2-Dichloropropane	6 R	---	---	---	---	---
cis-1,3-Dichloropropene	---	---	---	---	---	---
Trichloroethene	---	---	---	---	---	---
Dibromochloromethane	---	---	---	---	---	---
1,1,2-Trichloroethane	---	---	---	---	---	---
Benzene	---	---	---	---	---	---
Trans-1,3-Dichloropropene	---	---	---	---	---	---
Bromoform	---	---	---	---	---	---
4-Methyl-2-Pentanone	---	---	---	---	---	---
2-Hexanone	---	---	---	---	---	---
Tetrachloroethene	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	---	---	---	---	---	---
Toluene	---	---	---	---	---	2 J
Isobutanol	620 R					
Total (Allowed) Hold Time	10(14)d	9(14)d	9(14)d	9(14)d	11(14)d	10(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - SEMIVOLATILE ORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	So OF BLDG 65	So OF BLDG 60	So OF BLDG 60	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #1	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #4	AUGER HOLE #4
SAMPLE NUMBER	TAG0189B01C	TAG0289B01C	TAG0289B02C	TAG0389B01CRE	TAG0389B02CRE	TAG0489B01C	TAG0489C01C
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	SOIL
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89001	TAGEQ89001	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS							
Depth (ft)	5-7	5-7	5-7	5-7	5-7	5-7	10-12
TARGET COMPOUNDS							
Phenol	---	---	---	---	---	10 R	---
2-Chlorophenol	---	---	---	---	---	10 R	---
Benzyl alcohol	---	---	---	---	---	10 R	---
2-Methylphenol	---	---	---	---	---	10 R	---
4-Methylphenol	---	---	---	---	---	10 R	---
2-Nitrophenol	---	---	---	---	---	10 R	---
2,4-Dimethylphenol	---	---	---	---	---	10 R	---
Benzoic acid	---	50 R	50 R	---	---	50 R	---
2,4-Dichlorophenol	---	---	---	---	---	10 R	---
4-Chloro-3-methylphenol	---	---	---	---	---	10 R	---
2,4,6-Trichlorophenol	---	---	---	---	---	10 R	---
2,4,5-Trichlorophenol	---	---	---	---	---	50 R	---
2,4-Dinitrophenol	---	---	---	---	---	50 R	---
4-Nitrophenol	---	---	---	---	---	50 R	---
4,6-Dinitro-2-methylphenol	---	---	---	---	---	50 R	---
Pentachlorophenol	---	---	---	---	---	50 R	---
Di-n-butylphthalate	3 J	2 J	3 J	2 J	2 J	---	---
bis(2-Ethylhexyl)phthalate	2 J	---	---	---	---	3 J	---
4-Nitroquinoline-1-oxide							1600 R
Kepone							400 R
Total (Allowed) Hold Time	7(7)d	7(7)d	7(7)d	27(7)d*	27(7)d*	12(7)d*	4(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - SEMIVOLATILE ORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #4	AUGER HOLE #5	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6
SAMPLE NUMBER	TAG0489C01CR	TAG0589B01C	TAG0689B01CR	TAG0689C01C	TAG0689C01CRE
MEDIA	SOIL	WATER	WATER	SOIL	SOIL
UNITS	ug/kg	ug/L	ug/L	ug/kg	ug/kg
SDG NUMBER	TAGEQ89002	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS					
Depth (ft)	10-12	5-7	5-7	10-12	10-12
TARGET COMPOUNDS					
Phenol	---	---	---	---	---
2-Chlorophenol	---	---	---	---	---
Benzyl alcohol	---	---	---	---	---
2-Methylphenol	---	---	---	---	---
4-Methylphenol	---	---	---	---	---
2-Nitrophenol	---	---	---	---	---
2,4-Dimethylphenol	---	---	---	---	---
Benzoic acid	2000 R	---	---	---	---
2,4-Dichlorophenol	---	---	---	---	---
4-Chloro-3-methylphenol	---	---	---	---	---
2,4,6-Trichlorophenol	---	---	---	---	---
2,4,5-Trichlorophenol	---	---	---	---	---
2,4-Dinitrophenol	---	---	---	---	---
4-Nitrophenol	---	---	---	---	---
4,6-Dinitro-2-methylphenol	---	---	---	---	---
Pentachlorophenol	---	---	---	---	---
Di-n-butylphthalate	---	---	1 J	---	---
bis(2-Ethylhexyl)phthalate	---	---	---	---	---
4-Nitroquinoline-1-oxide					1600 R
Kepone					400 R
Total (Allowed) Hold Time	4(14)d	10(7)d*	22(7)d*	12(14)d	12(14)d
Dilution Factor	1.000	1.000	1.000	1.000	1.000

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	SO OF BLDG 654	SO OF BLDG 654	SO OF BLDG 654	SO OF BLDG 654	SO OF BLDG 654	SO OF BLDG 654
TYPE OF LOCATION	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1
SAMPLE NUMBER	TAG0189A01B	TAG0189B01B	TAG0189B02B	TAG0189C01B	TAG0189C02B	TAG0189D01B
MEDIA	SOIL	WATER	SOIL	SOIL	SOIL	SOIL
UNITS	mg/kg	ug/L	mg/kg	mg/kg	mg/kg	mg/kg
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS						
Depth (ft)	0-2	5-7	5-7	10-12	10-12	15-17
TARGET COMPOUNDS						
Aluminum	12900	---	15500	8590	8990	14600
Antimony	---	---	---	---	---	---
Arsenic	8.1 N+	6.4 B	7.5 NS	3.1 BNS	4.5 NS	10.7 N+
Barium	217	815	249	151	161	170
Beryllium	2.1	---	2.5	1.6	1.7	---
Cadmium	1.1	2.0 B	1.4	0.60 B	0.97	1.1
Calcium	87300	728000	93200	73900	76400	109000
Chromium	34.5	---	31.4	21.4	22.3	34.3
Cobalt	9.0 B	---	10.0	5.4 B	5.6 B	8.5 B
Copper	23.0	---	24.5	11.8	13.8	23.8
Cyanide						
Iron	18700	49.0 B	19200	12200	13100	19600
Lead	25.5 S	2.1 B	28.6 S	17.7 S	16.9 S	44.3 S
Magnesium	14000	27200 B	15100	12300	12500	15400
Manganese	413	122	390	196	227	345
Mercury	0.26	---	---	---	---	---
Nickel	37.1	---	38.6	21.9	25.2	35.2
Potassium	3020 B	460 B	3180 B	2200 B	2960	2980
Selenium	0.26 BW	---	---	---	---	---
Silver	---	---	---	---	---	---
Sodium	562 B	16600	822 B	506 B	612 B	728 B
Sulfide						
Thallium	0.26 B	---	0.20 BW	---	---	0.27 B
Tin						
Vanadium	46.8	18.0 B	47.5	33.0	35.3	49.8
Zinc	135	41.0	129	78.4	92.3	108
% Solids	88.4		87.9	92.7	91.3	84.0
Total (Allowed) Hold Time[a]	28(180)d	11(180)d	28(180)d	28(180)d	28(180)d	28(180)d
Total (Allowed) Hold Time[b]	28(180)d	11(180)d	28(180)d	28(180)d	28(180)d	28(180)d
Total (Allowed) Hold Time[c]	25(26)d	23(26)d	25(26)d	25(26)d	25(26)d	25(26)d
Total (Allowed) Hold Time[d]	28(180)d	11(180)d	28(180)d	28(180)d	28(180)d	28(180)d
Total (Allowed) Hold Time[e]						

a. ICP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	SO OF BLDG 654	SO OF BLDG 654	SO OF BLDG 654	SO OF BLDG 607	SO OF BLDG 607	SO OF BLDG 607
TYPE OF LOCATION	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #1	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2
SAMPLE NUMBER	TAG0189E01B	TAG0189H01B	TAG0189K01B	TAG0289A01B	TAG0289B01B	TAG0289B02B
MEDIA	SOIL	SOIL	SOIL	SOIL	WATER	WATER
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	ug/L	ug/L
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS						
Depth (ft)	20-22	35-37	50-52	0-2	5-7	5-7
TARGET COMPOUNDS						
Aluminum	1900	12400	16100	17000	137 B	---
Antimony	---	---	---	---	---	---
Arsenic	15.8 N+	10.6 NS	5.3 N+	10.7 NS	4.3 B	4.8 B
Barium	339	230	254	248	885	862
Beryllium	---	---	---	---	---	---
Cadmium	0.92	0.88 B	0.67 B	1.3	---	---
Calcium	74200	84200	13400	77600	728000	742000
Chromium	44.8	36.6	42.7	39.8	---	---
Cobalt	12.0	10.5 B	11.9	10.5	---	---
Copper	31.5	23.5	25.4	154	---	---
Cyanide						
Iron	25300	19300	29000	21800	91.0 B	78.0 B
Lead	28.4 S	15.3 S	27.6 S	27.3 S	---	---
Magnesium	14200	12500	8240 B	13800	26800 B	26200 B
Manganese	539	605	979	398	41.0	49.0
Mercury	0.10 B	---	---	---	---	---
Nickel	40.4	34.0	33.5	37.6	---	---
Potassium	354 B	2510	3250	6800	550 B	440 B
Selenium	0.35 BW	---	---	---	---	---
Silver	---	---	---	---	---	---
Sodium	611 B	576 B	358 B	734 B	5950	5700
Sulfide						
Thallium	0.33 B	---	0.19 B	0.15 BW	---	---
Tin						
Vanadium	68.3	48.9	57.0	53.5	14.0 B	14.0 B
Zinc	118	80.0	97.5	123	60.0	41.0
% Solids	84.7	86.9	87.3	93.4		
Total (Allowed) Hold Time[a]	28(180)d	28(180)d	27(180)d	28(180)d	11(180)d	11(180)d
Total (Allowed) Hold Time[b]	28(180)d	28(180)d	27(180)d	28(180)d	11(180)d	11(180)d
Total (Allowed) Hold Time[c]	25(26)d	25(26)d	24(26)d	25(26)d	23(26)d	23(26)d
Total (Allowed) Hold Time[d]	28(180)d	28(180)d	27(180)d	28(180)d	11(180)d	11(180)d
Total (Allowed) Hold Time[e]						

a. ICP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	SO OF BLDG 607	SO OF BLDG 607	SO OF BLDG 607	SO OF BLDG 607	SO OF BLDG 607	SO OF BLDG 607
TYPE OF LOCATION	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2	AUGER HOLE #2
SAMPLE NUMBER	TAG0289C01B	TAG0289D01B	TAG0289D02B	TAG0289E01B	TAG0289F01B	TAG0289H01B
MEDIA	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS						
Depth (ft)	10-12	15-17	15-17	20-22	25-27	35-37
TARGET COMPOUNDS						
Aluminum	15100	18100	21100	15300	16200	18400
Antimony	---	---	---	---	---	---
Arsenic	12.6 NS	19.2 N+	12.9	14.0 NS	13.8 NS	11.3 NS
Barium	241	313	264	290	227	336
Beryllium	---	---	1.0	1.6	1.7	2.2
Cadmium	1.2	1.2	1.6	1.0	1.0	1.8
Calcium	81900	69300	95500	64500	51200	20300
Chromium	34.7	42.3	38.4	37.1	36.1	56.3
Cobalt	10.6	12.8	11.0	12.9	13.2	13.3
Copper	27.3	32.6	32.2	30.8	31.0	43.5
Cyanide						
Iron	21300	23900	27000	22800	22900	25600
Lead	28.4 S	34.3 S	37.9 S	26.6 S	21.3 S	22.7 S
Magnesium	13400 B	13400	16600 B	14000	9230 B	8910 B
Manganese	427	470	414	487	734	1560
Mercury	0.11 B	---	---	0.13	---	---
Nickel	36.1	38.5	37.8	40.9	44.0	57.6
Potassium	4260	4400	3240 B	3880	3020	3590
Selenium	---	0.39 BW	---	---	0.32 BW	---
Silver	---	---	---	---	---	---
Sodium	516 B	548 B	516 B	451 B	432 B	393 B
Sulfide						
Thallium	0.29 BW	0.29 B	0.21 BW	0.29 BW	0.27 BW	0.37 B
Tin						
Vanadium	53.6	67.2	59.3	57.8	52.8	58.1
Zinc	114	116	117	126	109	129
% Solids	92.3	93.3	92.8	92.8	92.6	91.1
Total (Allowed) Hold Time[a]	28(180)d	28(180)d	28(180)d	28(180)d	28(180)d	28(180)d
Total (Allowed) Hold Time[b]	28(180)d	28(180)d	28(180)d	28(180)d	28(180)d	28(180)d
Total (Allowed) Hold Time[c]	25(26)d	25(26)d	25(26)d	25(26)d	25(26)d	25(26)d
Total (Allowed) Hold Time[d]	28(180)d	28(180)d	28(180)d	28(180)d	28(180)d	28(180)d
Total (Allowed) Hold Time[e]						

a. TCP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #3
SAMPLE NUMBER	TAG0389A01B	TAG0389801B	TAG0389802B	TAG0389C01B	TAG0389C02B	TAG0389D10B
MEDIA	SOIL	WATER	WATER	SOIL	SOIL	SOIL
UNITS	mg/kg	ug/L	ug/L	mg/kg	mg/kg	mg/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS						
Depth (ft)	0-2	5-7	5-7	10-12	10-12	15-17
TARGET COMPOUNDS						
Aluminum	21000	211	---	18500	16200	17500
Antimony	---	24.0 B	24.0 B	---	---	---
Arsenic	8.7 S	6.3 B	6.7 B	14.2 S	14.3 +	17.4 S
Barium	291	1350	1470	249	254	306
Beryllium	3.0	---	---	3.4	3.1	3.2
Cadmium	1.8	3.0 B	5.0	1.0	1.0	1.1
Calcium	59300 E	1020000	1090000	62000 E	61000 E	72900 E
Chromium	45.7	---	---	41.1	35.3	37.3
Cobalt	13.2	---	---	12.0	11.1	11.5
Copper	29.0	27.0	---	26.3	25.4	24.5
Cyanide						
Iron	28000	134	68.0 B	24900	23300	24300
Lead	30.5 S	---	---	26.4 S	26.7 S	26.0 S
Magnesium	14500	22000	24800 B	13600	13200	14500
Manganese	445	369	433	457	426	473
Mercury	0.09 B	0.24	---	---	0.05 B	0.11 B
Nickel	49.7	20.0 B	---	40.7	39.3	40.3
Potassium	4810 B	---	---	3430 B	2880 B	2860 B
Selenium	---	---	---	---	---	0.26 BW
Silver	---	---	---	---	---	---
Sodium	516 B	3980 B	4290 B	453 B	504 B	603 B
Sulfide						
Thallium	1.1 BN	---	---	0.36 BN	0.22 BN	0.30 BN
Tin						
Vanadium	50.3	15.0 B	17.0 B	59.0	50.4	56.2
Zinc	892	51.0	49.0	138	126	123
% Solids	91.9			93.2	93.6	87.0
Total (Allowed) Hold Time[a]	25(180)d	28(180)d	28(180)d	25(180)d	25(180)d	25(180)d
Total (Allowed) Hold Time[b]	25(180)d	40(180)d	40(180)d	25(180)d	25(180)d	25(180)d
Total (Allowed) Hold Time[c]	11(26)d	20(26)d	20(26)d	11(26)d	11(26)d	11(26)d
Total (Allowed) Hold Time[d]	25(180)d	28(180)d	28(180)d	25(180)d	25(180)d	25(180)d
Total (Allowed) Hold Time[e]						

a. ICP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #3	AUGER HOLE #3	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4
SAMPLE NUMBER	TAG0389E01B	TAG0389F01B	TAG0489A01B	TAG0489B01B	TAG0489B02B	TAG0489C01B
MEDIA	SOIL	SOIL	SOIL	WATER	SOIL	SOIL
UNITS	mg/kg	mg/kg	mg/kg	ug/L	mg/kg	mg/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002
FIELD MEASUREMENTS						
Depth (ft)	20-22	25-27	0-2	5-7	5-7	10-12
TARGET COMPOUNDS						
Aluminum	1400	16700	23400	954	16100	
Antimony	---	---	---	---	---	---
Arsenic	13.7 S	11.4 +	5.1 +	4.1 B	17.3 S	18.2
Barium	253	283	293	983	260	356
Beryllium	2.8	3.6	4.6	---	3.6	---
Cadmium	1.2	0.69 B	1.7	3.0 B	1.0 B	0.97 B
Calcium	70700 E	19600 E	50500	725000	83200	
Chromium	33.4	36.9	45.6	---	33.8	44.4
Cobalt	10.8	11.7	12.4	---	11.7	13.8
Copper	21.9	22.3	27.3	---	26.2	39.5
Cyanide						---
Iron	20700	25200	28400	685	24000	
Lead	21.4 S	26.2 S	30.4 S	2.3 B	29.2 S	23.6
Magnesium	13000	9230	14400	25800 B	14600	
Manganese	495	482	345	129	501	
Mercury	0.08 B	0.21	0.05 B	---	---	0.10 B
Nickel	34.7	36.9	48.8	---	39.1	44.6
Potassium	3010 B	2660 B	6010	1820 B	3160 B	
Selenium	---	---	0.26 BW	---	0.63 BW	---
Silver	---	---	---	---	---	---
Sodium	500 B	412 B	723 B	4030 B	570 B	
Sulfide						---
Thallium	0.21 BN	0.21 BN	0.21 BN	---	---	---
Tin						---
Vanadium	49.3	44.9	54.7	15.0 B	56.8	51.9
Zinc	96.0	105	201	49.0	118	126
% Solids	88.2	85.1	90.6		90.3	81.7
Total (Allowed) Hold Time[a]	25(180)d	25(180)d	13(180)d	16(180)d	13(180)d	38(180)d
Total (Allowed) Hold Time[b]	25(180)d	25(180)d	13(180)d	16(180)d	13(180)d	
Total (Allowed) Hold Time[c]	11(26)d	11(26)d	27(26)d	28(26)d	27(26)d	36(26)d*
Total (Allowed) Hold Time[d]	25(180)d	25(180)d	13(180)d	16(180)d	13(180)d	38(180)d
Total (Allowed) Hold Time[e]						26(12)d*

a. TCP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #4	AUGER HOLE #5
SAMPLE NUMBER	TAG0489D01B	TAG0489D02B	TAG0489E01B	TAG0489F01B	TAG0489J01B	TAG0589A01B
MEDIA	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SDG NUMBER	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89002	TAGEQ89001
FIELD MEASUREMENTS						
Depth (ft)	15-17	15-17	20-22	25-27	45-47	0-2
TARGET COMPOUNDS						
Aluminum	15900	19500	25700	31400	20700	16000
Antimony	---	---	---	---	---	0.89 BNW
Arsenic	13.4 S	16.4 S	11.6 S	6.6 S	8.8 +	8.5
Barium	256	241	275	338	370	230
Beryllium	3.2	4.5	5.4	6.2	4.9	1.4
Cadmium	1.1 B	0.93	1.5	0.86 B	0.94 B	0.82 B
Calcium	72000	61800	88900	9440 B	6720 B	64200 E
Chromium	32.6	38.2	53.2	63.0	41.2	39.0
Cobalt	10.2 B	13.2	15.5	16.6	14.3	10.5
Copper	19.6	26.5	30.9	29.7	45.0	23.4
Cyanide						
Iron	23700	27500	34000	36800	28800	21300
Lead	21.9 S	28.8 S	18.5	25.9 S	18.0 S	20.2 N
Magnesium	15400	15300	16900	11800	8990 B	12500
Manganese	488	620	776	620	696	388
Mercury	0.09 B	0.11	---	0.05 B	0.14	0.14
Nickel	35.6	43.1	53.4	47.5	56.5	37.5
Potassium	3870	3280	4140	3080 B	2710	3510
Selenium	0.35 BW	0.36	0.22	---	---	---
Silver	---	---	---	---	---	0.48 B
Sodium	597 B	562 B	545 B	611 B	340 B	520 B
Sulfide						
Thallium	0.17 BN	0.56 BN	0.37 BNW	0.40 BN	0.31 BN	0.42 BW
Tin						
Vanadium	52.6	58.1	76.7	70.8	56.7	55.6
Zinc	100	112	145	139	87.4	114
% Solids	86.9	84.2	85.0	83.0	82.1	92.0
Total (Allowed) Hold Time[a]	12(180)d	12(180)d	12(180)d	12(180)d	12(180)d	8(180)d
Total (Allowed) Hold Time[b]	12(180)d	12(180)d	12(180)d	12(180)d	12(180)d	8(180)d
Total (Allowed) Hold Time[c]	26(26)d	26(26)d	26(26)d	26(26)d	26(26)d	7(26)d
Total (Allowed) Hold Time[d]	12(180)d	12(180)d	12(180)d	12(180)d	12(180)d	8(180)d
Total (Allowed) Hold Time[e]						

a. ICP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5	AUGER HOLE #5
SAMPLE NUMBER	TAG0589B01B	TAG0589C01B	TAG0589C02B	TAG0589D01B	TAG0589E01B	TAG0589K01B
MEDIA	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
UNITS	ug/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS						
Depth (ft)	5-7	10-12	10-12	15-17	20-22	50-52
TARGET COMPOUNDS						
Aluminum	265	13900	9980	14200	12700	8530
Antimony	---	1.1 BN	0.60 BN	---	---	0.33 WN
Arsenic	8.2 B	11.5	10.2	8.5	7.2	4.8 +
Barium	1480	259	220	243	218	231
Beryllium	---	1.2	0.90 B	1.4	1.0	1.8
Cadmium	4.0 B	0.78 B	---	0.93 B	0.83 B	0.91 B
Calcium	1110000	51100 E	46400 E	75800 E	66200 E	213000 E
Chromium	---	33.9	27.8	38.5	35.4	21.3
Cobalt	---	10.1	8.7 B	10.5 B	8.7 B	6.8 B
Copper	---	21.3	16.4	19.8	15.8	21.6
Cyanide						
Iron	180	20700	16800	20400	18200	13700
Lead	---	17.6	13.8 N	16.6 N	14.0 N	11.1
Magnesium	24700 B	11600	10600 B	14100	10600	7850 B
Manganese	455	411	352	457	451	1060
Mercury	---	0.14	0.12	0.32	0.11	0.08 B
Nickel	---	30.6	27.1	36.6	31.6	25.6
Potassium	---	2880	2190	3150	2450	1510
Selenium	---	0.43 BNW	0.56 BNW	0.43 BNW	---	---
Silver	---	---	0.26 B	0.33 B	0.34 B	---
Sodium	4590 B	469 B	446 B	594 B	443 B	624 B
Sulfide						
Thallium	---	---	---	---	---	---
Tin						
Vanadium	17.0 B	50.9	42.4	55.0	47.2	30.4
Zinc	53.0	83.1	70.2	99.4	75.7	20.0
% Solids		83.4	86.6	84.9	88.2	78.7
Total (Allowed) Hold Time[a]	24(180)d	8(180)d	7(180)d	8(180)d	8(180)d	14(180)d
Total (Allowed) Hold Time[b]	36(180)d	8(180)d	7(180)d	8(180)d	8(180)d	14(180)d
Total (Allowed) Hold Time[c]	16(26)d	7(26)d	6(26)d	7(26)d	7(26)d	28(26)d*
Total (Allowed) Hold Time[d]	24(180)d	8(180)d	7(180)d	8(180)d	8(180)d	14(180)d
Total (Allowed) Hold Time[e]						

a. ICP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6	AUGER HOLE #6
SAMPLE NUMBER	TAG0689A01B	TAG0689B01B	TAG0689B02B	TAG0689C01B	TAG0689D01B	TAG0689D02B
MEDIA	SOIL	WATER	SOIL	SOIL	SOIL	SOIL
UNITS	mg/kg	ug/L	mg/kg	mg/kg	mg/kg	mg/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS						
Depth (ft)	0-2	5-7	5-7	10-12	15-17	15-17
TARGET COMPOUNDS						
Aluminum	22200	---	22800		15300	14000
Antimony	0.49 BN	---	1.1 BNW	---	0.48 BNW	---
Arsenic	8.5	4.1 B	6.7	7.2	11.6	10.5
Barium	278	1520	318	1900	278	242
Beryllium	1.6	---	1.7	8.6	1.4	1.1 B
Cadmium	1.3	4.0 B	1.5	6.2 B	0.97	0.91 B
Calcium	66000 E	1180000	61300 E		56700 E	71800 E
Chromium	51.9	---	51.0	257	41.4	37.5
Cobalt	12.1	---	12.8	69.1	10.1	11.7
Copper	27.6	---	27.5	148	25.3	23.3
Cyanide				---		
Iron	26900	58.0 B	27500		21700	21100
Lead	25.5	---	22.2 N	21.0	19.5 N	20.8 N
Magnesium	15100	27800 B	14100		11800	13600
Manganese	2260	567	660		472	546
Mercury	0.11	---	0.08 B	0.12 B	---	---
Nickel	46.7	---	47.2	240	37.5	39.5
Potassium	3790 B	---	3780 B		3360	2870
Selenium	0.60 BNW	---	---	---	0.36 BNW	0.39 BNW
Silver	0.53 B	---	0.38 BW	---	0.37 B	0.82 B
Sodium	668 B	11100	757 B		493 B	482 B
Sulfide						
Thallium	0.19 BW	---	---	---	---	---
Tin						
Vanadium	64.2	15.0 B	63.6	333	59.6	56.0
Zinc	158	65.0	151	649	103	104
% Solids	88.2		83.1	81.0	80.8	81.8
Total (Allowed) Hold Time[a]	7(180)d	23(180)d	7(180)d	7(180)d	7(180)d	7(180)d
Total (Allowed) Hold Time[b]	7(180)d	35(180)d	7(180)d		7(180)d	7(180)d
Total (Allowed) Hold Time[c]	6(26)d	15(26)d	6(26)d	7(26)d	6(26)d	6(26)d
Total (Allowed) Hold Time[d]	7(180)d	23(180)d	7(180)d	7(180)d	7(180)d	7(180)d
Total (Allowed) Hold Time[e]				40(12)d*		

a. ICP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TSF	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGUER HOLE #6	AUGER HOLE #6	AUGER HOLE #7
SAMPLE NUMBER	TAG0689E01B	TAG0689F01B	TAG0789N01B
MEDIA	SOIL	SOIL	SOIL
UNITS	mg/kg	mg/kg	mg/kg
SDG NUMBER	TAGEQ89001	TAGEQ89001	TAGEQ89001
FIELD MEASUREMENTS			
Depth (ft)	20-22	25-27	63-64
TARGET COMPOUNDS			
Aluminum	14600	21600	14000
Antimony	0.68 BN	0.50 BN	0.51 BN
Arsenic	8.3	9.4	5.6
Barium	216	272	199
Beryllium	1.0	1.6	0.81 B
Cadmium	1.0	1.0	1.0
Calcium	78200 E	56700 E	119000 E
Chromium	39.7	49.2	29.8
Cobalt	11.5	14.7	9.3 B
Copper	21.1	29.7	24.7
Cyanide			
Iron	19800	27000	16600
Lead	20.2 N	22.0 N	13.2 N
Magnesium	14400	13800	10200 B
Manganese	447	725	1110
Mercury	---	---	0.09 B
Nickel	36.6	47.8	29.1
Potassium	3070	3660	2350
Selenium	---	0.31 BN	---
Silver	0.30 B	0.40 B	---
Sodium	493 B	543 B	523 B
Sulfide			
Thallium	---	---	---
Vanadium	55.0	65.4	36.4
Zinc	97.1	120	47.8
% Solids	85.1	81.9	77.8
Total (Allowed) Hold Time[a]	7(180)d	7(180)d	6(180)d
Total (Allowed) Hold Time[b]	7(180)d	7(180)d	6(180)d
Total (Allowed) Hold Time[c]	6(26)d	6(26)d	5(26)d
Total (Allowed) Hold Time[d]	7(180)d	7(180)d	6(180)d
Total (Allowed) Hold Time[e]			

a. ICP
b. FAAS
c. CVAAS
d. GFAAS
e. AS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - ORGANOCHLORINE/ORGANOPHOSPHORUS PESTICIDE DATA

AREA	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #4	AUGER HOLE #6
SAMPLE NUMBER	TAG0489C01C	TAG0689C01C
MEDIA	SOIL	SOIL
UNITS	ug/kg	ug/kg
SDG NUMBER	TAGE089002	TAGE089001
FIELD MEASUREMENTS		
Depth (ft)	10-12	10-12
TARGET COMPOUNDS		
None Detected.		
Total (Allowed) Hold Time	5(14)d	12(14)d
Dilution Factor	1.0	1.0

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - HERBICIDE DATA

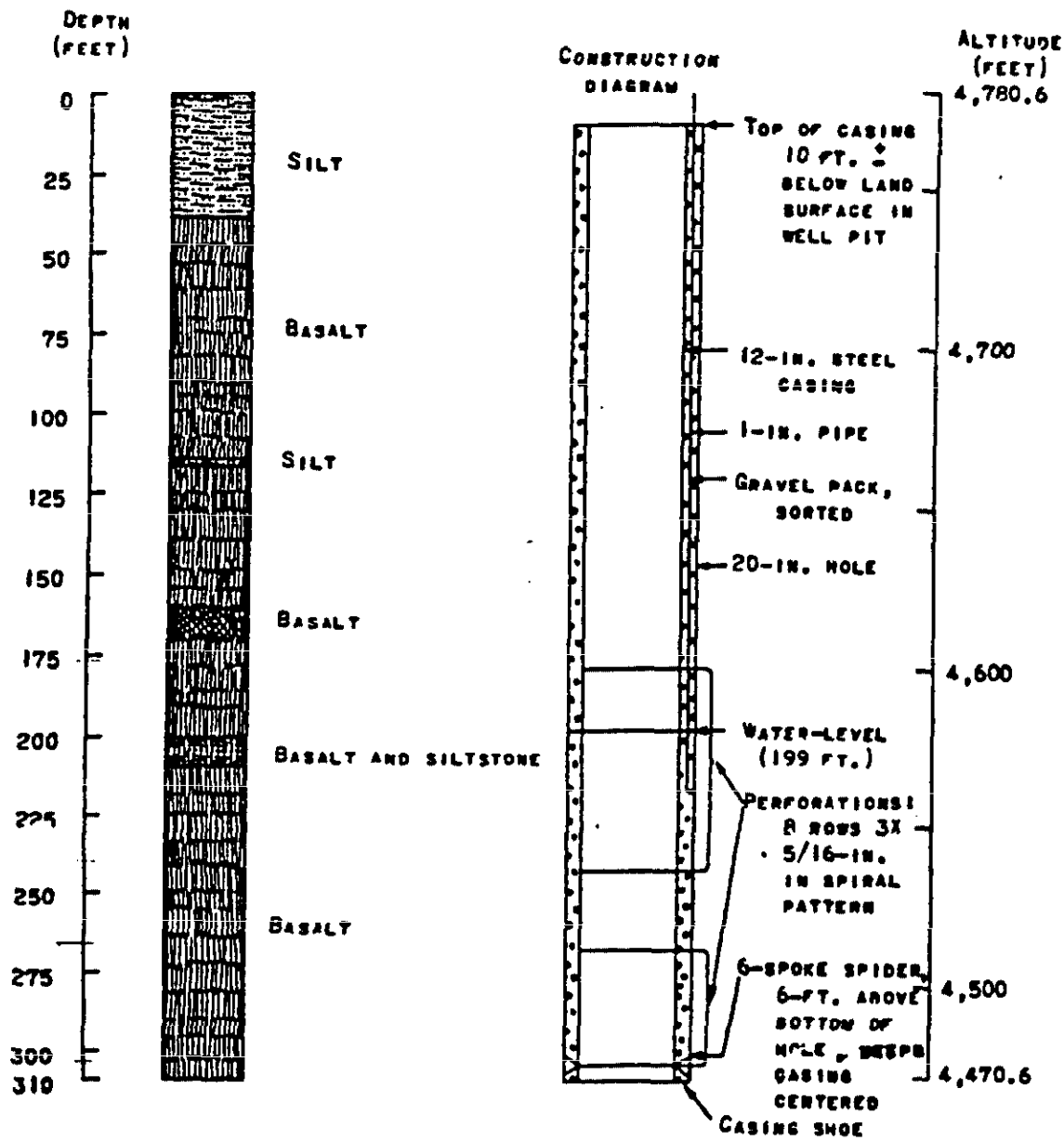
AREA	TSF	TSF
LOCATION	DISPOSAL POND	DISPOSAL POND
TYPE OF LOCATION	AUGER HOLE #6	AUGER HOLE #6
SAMPLE NUMBER	TAG0489C01C	TAG0689C01C
MEDIA	SOIL	SOIL
UNITS	ug/kg	ug/kg
SDG NUMBER	TAGE089002	TAGE089001
FIELD MEASUREMENTS		
Depth (ft)	10-12	10-12
ANALYTES		
None detected		
Total (Allowed) Hold Time	9(14)d	10(14)d
Dilution Factor	1.000	1.000

APPENDIX B

UNVALIDATED ANALYTICAL DATA FOR THE TSF-05 INJECTION WELL GROUNDWATER AND SEDIMENT/SLUDGE

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GENERALIZED GRAPHIC LOGS OF WELLS



6N-31E-13cal (field no. ANP-3)

JULY 19, 1990

TSF0501 SLUDGE for L. FRITZ

NUCLIDE	ANALYSIS DATE	ACTIVITY +/- 1 STANDARD DEVIATION
GROSS ALPHA	JULY 17, 1990	(6 +/- 4) E+0 pCi/mL
GROSS BETA	JULY 17, 1990	(4.9 +/- 0.5) E+3 pCi/mL
TRITIUM	JULY 17, 1990	(1.03 +/- 0.03) E+3 pCi/mL
Sr-TOTAL	JULY 17, 1990	(3.1 +/- 0.3) E+2 pCi/mL

NOTE: CARBON-14 RESULTS WILL BE SENT UNDER SEPARATE COVER.

ANALYSIS BY: _____

APPROVED BY: _____

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July 16, 1990
TCS-11-90
Attachment

TABLE 1
TAN SLUDGE SAMPLE TSF-0501R

COLLECTION DATES
071090 TO 071090

16-JUL-90

SAMPLE ID	ESP ID	RADIONUCLIDE (GAMMA)		ACTIVITY(S) (pCi/gm)	UNCERTAINTIES (%) STATISTICAL	GEOMETRY	EFFICIENCY	ACTIVITY(T) (pCi/gm)
A3071290034	TSF-0501R	CO	60	(+8.12 +/- .03)E+02	0.4	50.0	5.0	(+8.12 +/- 4.1)E+02
		CS	137	(+2.34 +/- .01)E+03	0.3	50.0	5.0	(+2.34 +/- 1.2)E+03
		EU	154	(+6.62 +/- 1.1)E+00	16.6	50.0	5.0	(+6.62 +/- 3.5)E+00
		AM	241	(+2.36 +/- .53)E+01	22.3	50.0	5.0	(+2.36 +/- 1.3)E+01

NOTE: (1) ACTIVITY(S) Includes the statistical uncertainty, from counting statistics and photopeak fitting--expressed as 1 std. dev.
(2) ACTIVITY(T) Includes the total uncertainty resulting from the statistical, sample/detector geometry and efficiency. These uncertainties have been propagated in quadrature--expressed as 1 std. dev.

Retyped from copy of original document due to poor clarity of copy. Retyped version checked for accuracy by J. R. Zimmerle, 3/23/92. JRZ

SAMPLES SUBMITTED BY: Lori Fritz

DATE 7-20-1990

PLE NUMBER	SAMPLE DESCRIPTION	NUCLIDE	ACTIVITY
117	TSF0501R	Pu-239	1.22 +/- 0.03 E 1 pCi/g
		***	4.12 +/- 0.15 E 0 pCi/g

***-Am-241 and/or Pu-238

ANALYZED BY: David S. Lee

Uncertainties are ONE SIGMA.

Controls for Environmental
Pollution, Inc.
P.O. Box 5351
Santa Fe, NM 87502
Attn: James J. Mueller
Phone: (505) 982-9841

EG and G Idaho, Inc.
1955 Fremont Avenue
Idaho Falls, ID 83415

Attn: Dan R. James

Purchase Order: C-90-132804
Invoice Number:

Order #: 90-08-104
Date: 08/25/90 08:56
Work ID: Organics
Date Received: 08/06/90
Date Completed: 08/25/90

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	TSF0502V
03	TSF0504V
05	TSF0506V
07	TSF0508V
09	TSF0510V
11	TSF0514V
13	TSF0516V
15	BB196060-TB

Sample Number	Sample Description
02	TSF0503V
04	TSF0505V
06	TSF0507V
08	TSF0509V
10	TSF0513V
12	TSF0515V
14	TSF0502V

Remainder of sample(s) for routine analysis will be disposed of three weeks from final report date. Sample(s) for bacteria analysis only, will be disposed of immediately after analysis. This is not applicable if other arrangements have been made.

Certified By

TEST RESULTS BY SAMPLE

Sample: 01A TSF0502V Collected: 07/10/90 10:42

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	30.0	0.06	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	0.56	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 02A TSF0503V Collected: 07/10/90 10:48

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.30	0.30	mg/gram		
trans-1,2-Dichloroethane	<0.15	0.15	mg/gram		
Chloroform	<0.08	0.08	mg/gram		
1,2-Dichloroethane	<0.14	0.14	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Trichloroethene	30.0	0.06	mg/gram		
Dibromochloromethane	<0.07	0.07	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	0.4	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 03A TSF0504V Collected: 07/10/90 11:23

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	23.6	0.06	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	0.24	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 04A TSF0505V Collected: 07/10/90 11:27

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	16.3	0.06	mg/gram		
Dibromochloromethane	<0.07	0.07	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	0.17	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 05A TSF0506V Collected: 07/10/90 11:37

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	6.9	0.06	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	<0.12	0.12	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 06A TSF0507V Collected: 07/10/90 13:45

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	1.6	0.06	mg/gram		
Dibromochloromethane	<0.07	0.07	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	<0.12	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 07A TSF0508V Collected: 07/10/90 13:51

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	0.18	0.06	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	<0.12	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 08A TSF0509V Collected: 07/10/90 14:26

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	7.4	0.06	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	<0.12	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 09A TSF0510V Collected: 07/10/90 14:36

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	7.5	0.19	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	<0.12	0.12	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 10A TSF0513V Collected: 07/10/90 14:58

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	1.6	0.17	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	1.3	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 11A TSF0514V Collected: 07/10/90 15:22

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	0.41	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Dromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	0.92	0.19	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	<0.12	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 12A TSF0515V Collected: 07/10/90 15:27

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	1.0	0.19	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	<0.30	mg/gram		
Tetrachloroethene	1.1	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	<0.15	mg/gram		

Sample: 13A TSF0516V Collected: 07/10/90 15:02

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	<0.05	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0330	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	0.3	0.19	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	0.3	0.12	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 14A TSF0502V Collected: 07/10/90 10:33

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<0.30	0.30	mg/gram		
Bromomethane	<0.30	0.30	mg/gram		
Vinyl Chloride	<0.06	0.06	mg/gram		
Chloroethane	<0.30	0.30	mg/gram		
Methylene Chloride	<0.08	0.08	mg/gram		
Acetone	<0.30	0.30	mg/gram		
Carbon Disulfide	<0.15	0.15	mg/gram		
1,1-Dichloroethene	<0.08	0.08	mg/gram		
1,1-Dichloroethane	<0.14	0.14	mg/gram		
trans-1,2-Dichloroethane	0.09	0.05	mg/gram		
Chloroform	<0.05	0.05	mg/gram		
1,2-Dichloroethane	<0.08	0.08	mg/gram		
2-Butanone	<0.30	0.30	mg/gram		
1,1,1-Trichloroethane	<0.11	0.11	mg/gram		
Carbon Tetrachloride	<0.08	0.08	mg/gram		
Vinyl Acetate	<0.30	0.30	mg/gram		
Bromodichloromethane	<0.07	0.07	mg/gram		
1,1,2,2-Tetrachloroethane	<0.21	0.21	mg/gram		
1,2-Dichloropropane	<0.18	0.18	mg/gram		
trans-1,3-Dichloropropene	<0.15	0.15	mg/gram		
Trichloroethene	2.7	0.19	mg/gram		
Dibromochloromethane	<0.09	0.09	mg/gram		

Test Description	Result	Limit	Units	Analyzed	By
1,1,2-Trichloroethane	<0.15	0.15	mg/gram		
Benzene	<0.13	0.13	mg/gram		
cis-1,3-Dichloropropene	<0.15	0.15	mg/gram		
2-Chloroethyl Vinyl Ether	<0.30	0.30	mg/gram		
Bromoform	<0.14	0.14	mg/gram		
2-Hexanone	<0.30	0.30	mg/gram		
4-Methyl-2-Pentanone	<0.30	0.30	mg/gram		
Tetrachloroethene	2.8	0.12	mg/gram		
Toluene	<0.18	0.18	mg/gram		
Chlorobenzene	<0.18	0.18	mg/gram		
Ethyl Benzene	<0.22	0.22	mg/gram		
Styrene	<0.15	0.15	mg/gram		
Total Xylenes	<0.15	0.15	mg/gram		

Sample: 15A B8196060-TB Collected:

Test Description	Result	Limit	Units	Analyzed	By
EPA - method 8240					
Chloromethane	<10.0	10.0	ug/liter		
Bromomethane	<10.0	10.0	ug/liter		
Vinyl Chloride	<2.0	2.00	ug/liter		
Chloroethane	<10.0	10.0	ug/liter		
Methylene Chloride	<2.8	2.80	ug/liter		
Acetone	<10.0	10.0	ug/liter		
Carbon Disulfide	<5.0	5.00	ug/liter		
1,1-Dichloroethene	<2.8	2.80	ug/liter		
1,1-Dichloroethane	<4.7	4.70	ug/liter		
trans-1,2-Dichloroethane	<1.6	1.60	ug/liter		
Chloroform	<1.6	1.60	ug/liter		
1,2-Dichloroethane	<2.8	2.80	ug/liter		
2-Butanone	<10.0	10.0	ug/liter		
1,1,1-Trichloroethane	<3.8	3.80	ug/liter		

Test Description	Result	Limit	Units	Analyzed	By
Carbon Tetrachloride	<2.8	2.80	ug/liter		
Vinyl Acetate	<10.0	10.0	ug/liter		
Bromodichloromethane	<2.2	2.20	ug/liter		
1,1,2,2-Tetrachloroethane	<6.9	6.90	ug/liter		
1,2-Dichloropropane	<6.0	6.00	ug/liter		
trans-1,3-Dichloropropene	<5.0	5.00	ug/liter		
Trichloroethene	<1.9	1.90	ug/liter		
Dibromochloromethane	<3.1	3.10	ug/liter		
1,1,2-Trichloroethane	<5.0	5.00	ug/liter		
Benzene	<4.4	4.40	ug/liter		
cis-1,3-Dichloropropene	<5.0	5.00	ug/liter		
2-Chloroethyl Vinyl Ether	<10.0	10.0	ug/liter		
Bromoform	<4.7	4.70	ug/liter		
2-Hexanone	<10.0	10.0	ug/liter		
4-Methyl-2-Pentanone	<10.0	10.0	ug/liter		
Tetrachloroethene	<4.1	4.10	ug/liter		
Toluene	<6.0	6.00	ug/liter		
Chlorobenzene	<6.0	6.00	ug/liter		
Ethyl Benzene	<7.2	7.20	ug/liter		
Styrene	<5.0	5.00	ug/liter		
Total Xylenes	<5.0	5.00	ug/liter		

Controls for Environmental P n, Inc.
OUT OF STATE 800/545-2188 • FAX-505-982

EG and G Idaho, Inc.
1955 Fremont Avenue
Idaho Falls, ID 83415

Attn: Dan R. James

Work ID: Water Quality & Organics
P O # : C-90-132804

Date Received: 08/06/90
Date Reported: 08/25/90
Work Order: 90-08-103
Category: RUSH_TCLP

Test	Units	TSF0501C	TSF0504C	TSF0507C	TSF0509C
		07/10/90 10:53	07/10/90 11:56	07/10/90 14:07	07/10/90 14:50
BTU	BTU/lb	*	*	*	*
Corrosivity (pH)	units	8.11	8.05	8.31	8.11
Total Halogen Sulfur	ug/gram	2410	2000	4340	1330
Mercury (total)	ug/gram	17.0	101.1	23.4	12.8
Ignitability	Degrees C	>90	>90	>90	>90
Lead (total)	ug/gram	160	130	180	100
Reactivity (Cyanide)	mg/kg	<3.1	<3.1	<31.3	<3.1
Reactivity (Sulfide)	mg/kg	<2.5	<2.5	<2.5	<2.5

Page 2 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 08/25/90 09:11:18 Continued From Above

Test	Units	TSF0501C	TSF0504C	TSF0507C	TSF0509C
		07/10/90 10:53	07/10/90 11:56	07/10/90 14:07	07/10/90 14:50
Reactivity	mg/kg	**	**	**	**

Test	Units	TSF0513C	TSF0514C
		07/10/90 15:13	07/10/90 15:34
BTU	BTU/lb	*	*
Corrosivity (pH)	units	8.11	8.00
Total Halogen Sulfur	ug/gram	2230	1960
Mercury (total)	ug/gram	14.9	25.5
Ignitability	Degrees C	>90	>90
Lead (total)	ug/gram	110	110

Controls for Environmental P[illegible]ion, Inc.
[illegible]
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Page 3 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 08/25/90 09:11:18 Continued From Above

Test	Units	TSF0513C	TSF0514C
		07/10/90 15:13	07/10/90 15:34
Reactivity (Cyanide)	mg/kg	<3.1	<31.3
Reactivity (Sulfide)	mg/kg	<2.5	<2.5
Reactivity	mg/kg	**	**

* Didn't Ignite
** Non Reactive

Certified By:

Controls for Environmental [illegible]tion, Inc.
OUT OF STATE 800/545-2188 • FAX 505-00[illegible]

Page 4 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90

Results by Sample

SAMPLE ID TSF0501C FRACTION 01C TEST CODE TCLP NAME TCLP Metals
Date & Time Collected 07/10/90 10:53:00 Category SLUDGE

TCLP Metals	Detection Limit mg/L	RESULT
Arsenic	0.01	0.01
Barium	0.1	1.6
Cadmium	0.001	0.1
Chromium	0.01	0.20
Lead	0.01	0.2
Mercury	0.0004	<0.0004
Selenium	0.01	<0.01
Silver	0.01	0.03

All results reported in:

UNITS mg/liter

Controls for Environmental P[illegible]ion, Inc.
OUT OF STATE 800/545-2180 • FAX-505-902

 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0501C FRACTION 01B TEST CODE TCLP O NAME TCLP Organics
Date & Time Collected 07/10/90 10:53:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Bis(2-chloroethyl)ether	<0.015	0.015
O-cresol	<0.025	0.025
M-cresol	<0.025	0.025
P-cresol	<0.025	0.025
Pentachlorophenol	<0.010	0.010
Phenol	<0.005	0.005
2,3,4,6-Tetrachlorophenol	<0.005	0.005
2,4,5-Trichlorophenol	<0.013	0.013
2,4,6-Trichlorophenol	<0.008	0.008
2,4-Dinitrotoluene	<0.015	0.015
Hexachlorobenzene	<0.005	0.005
Hexachlorobutadiene	<0.003	0.003
Hexachloroethane	<0.005	0.005
Nitrobenzene	<0.005	0.005
Chlordane	<0.004	0.004
Endrin	<0.001	0.001
Heptachlor	<0.001	0.001
Lindane	<0.001	0.001
Methoxychlor	<0.001	0.001
Toxaphene	<0.004	0.004
2,4-D	<0.003	0.003
Silvex	<0.003	0.003
1,2-Dichlorobenzene	<0.05	0.05
1,4-Dichlorobenzene	<0.01	0.01

Notes and Definitions for this Report:

UNITS mg/liter

Controls for Environmental P[illegible]ion, Inc.
[illegible]
OUT OF STATE 800/545-2180 • FAX - 505-902

 CEP, Inc. REPORT Work Order # 90-08-103

Received: 08/06/90 Results by Sample

SAMPLE ID TSF0501C FRACTION 01A TEST CODE ZHE NAME Zero Head Space Extracti

Date & Time Collected 07/10/90 10:53:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Acrlonitrile	<100	100
Benzene	<44	44
Carbon Disulfide	<100	100
Carbon Tetrachloride	<28	28
Chlorobenzene	<60	60
Chloroform	<16	16
1,2-Dichloroethane	<28	28
1,1-Dichloroethylene	20.8	16
Isobutanol	<100	100
Methylene Chloride	46.9	28
Methylethyl Ketone	<100	100
Pyridine	<100	100
1,1,1,2-Tetrachloroethane	<100	100
1,1,2,2-Tetrachloroethane	<69	69
Tetrachloroethylene	860.0	41
Toluene	<60	60
1,1,1-Trichloroethane	21.3	38
1,1,2-Trichloroethane	<50	50
Trichloroethylene	12000.0	19
Vinyl Chloride	<20	20

Notes and Definitions for this Report:

UNITS ug/liter

Controls for Environmental P[illegible]tion, Inc.
[illegible] OUT OF STATE 800/545-2100 • FAX-505-90[illegible]

 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0504C FRACTION 02C TEST CODE TCLP NAME TCLP Metals
Date & Time Collected 07/10/90 11:56:00 Category SLUDGE

TCLP Metals	Detection Limit mg/L	RESULT
Arsenic	0.01	0.03
Barium	0.1	0.6
Cadmium	0.001	<0.1
Chromium	0.01	0.10
Lead	0.01	0.2
Mercury	0.0004	<0.0004
Selenium	0.01	<0.01
Silver	0.01	0.03

All results reported in:

UNITS mg/liter

Controls for Environmental [illegible] tion, Inc.
OUT OF STATE 800/545-2180 • FAX - 505-90[illegible]

 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0504C FRACTION 02B TEST CODE TCLP O NAME TCLP Organics
Date & Time Collected 07/10/90 11:56:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Bis(2-chloroethyl)ether	<0.03	0.03
O-cresol	<0.06	0.06
M-cresol	<0.06	0.06
P-cresol	<0.06	0.06
Pentachlorophenol	<0.02	0.02
Phenol	<0.01	0.01
2,3,4,6-Tetrachlorophenol	<0.01	0.01
2,4,5-Trichlorophenol	<0.03	0.03
2,4,6-Trichlorophenol	<0.02	0.02
2,4-Dinitrotoluene	<0.03	0.03
Hexachlorobenzene	<0.01	0.01
Hexachlorobutadiene	<0.005	0.005
Hexachloroethane	<0.01	0.01
Nitrobenzene	<0.01	0.01
Chlordane	<0.004	0.004
Endrin	<0.001	0.001
Heptachlor	<0.001	0.001
Lindane	<0.001	0.001
Methoxychlor	<0.001	0.001
Toxaphene	<0.004	0.004
2,4-D	<0.006	0.006
Silvex	<0.006	0.006
1,2-Dichlorobenzene	<0.11	0.11
1,4-Dichlorobenzene	<0.02	0.02

Notes and Definitions for this Report:

UNITS mg/liter

Page 9 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0504C FRACTION 02A TEST CODE ZHE NAME Zero Head Space Extracti
Date & Time Collected 07/10/90 11:56:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Acrlonitrile	<100	100
Benzene	<44	44
Carbon Disulfide	<100	100
Carbon Tetrachloride	<28	28
Chlorobenzene	<60	60
Chloroform	36.8	16
1,2-Dichloroethane	<28	28
1,1-Dichloroethylene	<16	16
Isobutanol	<100	100
Methylene Chloride	200.0	28
Methylethyl Ketone	<100	100
Pyridine	<100	100
1,1,1,2-Tetrachloroethane	<100	100
1,1,2,2-Tetrachloroethane	<69	69
Tetrachloroethylene	460.0	41
Toluene	<60	60
1,1,1-Trichloroethane	<38	38
1,1,2-Trichloroethane	<50	50
Trichloroethylene	11000.0	19
Vinyl Chloride	<20	20

Notes and Definitions for this Report:

UNITS ug/liter

Controls for Environmental P[illegible]tion, Inc.
OUT OF STATE 800/545-2188 • FAX - 505-982

 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0507C FRACTION 03C TEST CODE TCLP NAME TCLP Metals
Date & Time Collected 07/10/90 14:07:00 Category SLUDGE

TCLP Metals	Detection Limit mg/L	RESULT
Arsenic	0.01	***
Barium	0.1	***
Cadmium	0.001	***
Chromium	0.01	***
Lead	0.01	***
Mercury	0.0004	***
Selenium	0.01	***
Silver	0.01	***

All results reported in:

UNITS mg/liter

Page 11 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0507C FRACTION 03B TEST CODE TCLP O NAME TCLP Organics
Date & Time Collected 07/10/90 14:07:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Bis(2-chloroethyl)ether	<0.04	0.04
O-cresol	<0.07	0.07
M-cresol	<0.07	0.07
P-cresol	<0.07	0.07
Pentachlorophenol	<0.03	0.03
Phenol	<0.01	0.01
2,3,4,6-Tetrachlorophenol	<0.01	0.01
2,4,5-Trichlorophenol	<0.03	0.03
2,4,6-Trichlorophenol	<0.02	0.02
2,4-Dinitrotoluene	<0.04	0.04
Hexachlorobenzene	<0.01	0.01
Hexachlorobutadiene	<0.005	0.005
Hexachloroethane	<0.01	0.01
Nitrobenzene	<0.01	0.01
Chlordane	<0.004	0.004
Endrin	<0.001	0.001
Heptachlor	<0.001	0.001
Lindane	<0.001	0.001
Methoxychlor	<0.001	0.001
Toxaphene	<0.004	0.004
2,4-D	<0.007	0.007
Silvex	<0.007	0.007
1,2-Dichlorobenzene	<0.13	0.13
1,4-Dichlorobenzene	<0.03	0.03

Notes and Definitions for this Report:

UNITS mg/liter

Controls for Environmental P[illegible]tion, Inc.
[illegible]
OUT OF STATE 800/545-2188 • FAX · 505-982[illegible]

 CEP, Inc. REPORT Work Order # 90-08-103

Received: 08/06/90

Results by Sample

SAMPLE ID TSF0507C FRACTION 03A TEST CODE ZHE NAME Zero Head Space Extracti

Date & Time Collected 07/10/90 14:07:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Acrionitrile	<100	100
Benzene	<44	44
Carbon Disulfide	<100	100
Carbon Tetrachloride	<28	28
Chlorobenzene	<60	60
Chloroform	<16	16
1,2-Dichloroethane	<28	28
1,1-Dichloroethylene	<16	16
Isobutanol	<100	100
Methylene Chloride	150.0	28
Methylethyl Ketone	<100	100
Pyridine	<100	100
1,1,1,2-Tetrachloroethane	<100	100
1,1,2,2-Tetrachloroethane	<69	69
Tetrachloroethylene	190.0	41
Toluene	<60	60
1,1,1-Trichloroethane	<38	38
1,1,2-Trichloroethane	<50	50
Trichloroethylene	11000.0	19
Vinyl Chloride	<20	20

Notes and Definitions for this Report:

UNITS ug/liter

Controls for Environmental [illegible]tion, Inc.
OUT OF STATE 800/545-2100 • FAX-505-90[illegible]

 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0509C FRACTION 04C TEST CODE TCLP NAME TCLP Metals
Date & Time Collected 07/10/90 14:50:00 Category SLUDGE

TCLP Metals	Detection Limit mg/L	RESULT
Arsenic	0.01	0.02
Barium	0.1	1.1
Cadmium	0.001	0.1
Chromium	0.01	0.15
Lead	0.01	0.2
Mercury	0.0004	<0.0004
Selenium	0.01	<0.01
Silver	0.01	0.01

All results reported in:

UNITS mg/liter

Controls for Environmental P[illegible]ction, Inc.
[illegible] OUT OF STATE 800/545-2108 • FAX 505-902[illegible]

Page 14 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0509C FRACTION 04B TEST CODE TCLP O NAME TCLP Organics
Date & Time Collected 07/10/90 14:50:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Bis(2-chloroethyl)ether	<0.02	0.02
O-cresol	<0.03	0.03
M-cresol	<0.03	0.03
P-cresol	<0.03	0.03
Pentachlorophenol	<0.01	0.01
Phenol	<0.005	0.005
2,3,4,6-Tetrachlorophenol	<0.005	0.005
2,4,5-Trichlorophenol	<0.005	0.005
2,4,6-Trichlorophenol	<0.008	0.008
2,4-Dinitrotoluene	<0.016	0.016
Hexachlorobenzene	<0.005	0.005
Hexachlorobutadiene	<0.003	0.003
Hexachloroethane	<0.005	0.005
Nitrobenzene	<0.005	0.005
Chlordane	<0.004	0.004
Endrin	<0.001	0.001
Heptachlor	<0.001	0.001
Lindane	<0.001	0.001
Methoxychlor	<0.001	0.001
Toxaphene	<0.004	0.004
2,4-D	<0.003	0.003
Silvex	<0.003	0.003
1,2-Dichlorobenzene	<0.05	0.05
1,4-Dichlorobenzene	<0.01	0.01

Notes and Definitions for this Report:

UNITS mg/liter

Controls for Environmental [illegible]tion, Inc.
[illegible] OUTOF STATE 800/545-2100 • FAX: 505-90[illegible]

 CEP, Inc. REPORT Work Order # 90-08-103

Received: 08/06/90

Results by Sample

SAMPLE ID TSF0509C FRACTION 04A TEST CODE ZHE NAME Zero Head Space Extracti

Date & Time Collected 07/10/90 14:50:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Acrlonitrile	<100	100
Benzene	<44	44
Carbon Disulfide	<100	100
Carbon Tetrachloride	<28	28
Chlorobenzene	<60	60
Chloroform	<16	16
1,2-Dichloroethane	<28	28
1,1-Dichloroethylene	<16	16
Isobutanol	<100	100
Methylene Chloride	<28	28
Methylethyl Ketone	<100	100
Pyridine	<100	100
1,1,1,2-Tetrachloroethane	<100	100
1,1,2,2-Tetrachloroethane	<69	69
Tetrachloroethylene	830.0	41
Toluene	<60	60
1,1,1-Trichloroethane	<38	38
1,1,2-Trichloroethane	<50	50
Trichloroethylene	9100.0	19
Vinyl Chloride	<20	20

Notes and Definitions for this Report:

UNITS ug/liter

Controls for Environmental P tion, Inc.
OUT OF STATE 800/545-2100 • FAX 505-90

 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0513C FRACTION 05C TEST CODE TCLP NAME TCLP Metals
Date & Time Collected 07/10/90 15:13:00 Category SLUDGE

TCLP Metals	Detection Limit mg/L	RESULT
Arsenic	0.01	***
Barium	0.1	***
Cadmium	0.001	***
Chromium	0.01	***
Lead	0.01	***
Mercury	0.0004	***
Selenium	0.01	***
Silver	0.01	***

All results reported in:

UNITS mg/liter

Controls for Environmental [illegible]tion, Inc.
OUT OF STATE 800/545-2188 • FAX-505-905

 CEP, Inc. REPORT Work Order # 90-08-103

Received: 08/06/90

Results by Sample

SAMPLE ID TSF0513C FRACTION 05B TEST CODE TCLP O NAME TCLP Organics

Date & Time Collected 07/10/90 15:13:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Bis(2-chloroethyl)ether	<0.04	0.04
O-cresol	<0.06	0.06
M-cresol	<0.06	0.06
P-cresol	<0.06	0.06
Pentachlorophenol	<0.02	0.02
Phenol	<0.01	0.01
2,3,4,6-Tetrachlorophenol	<0.01	0.01
2,4,5-Trichlorophenol	<0.03	0.03
2,4,6-Trichlorophenol	<0.02	0.02
2,4-Dinitrotoluene	<0.04	0.04
Hexachlorobenzene	<0.01	0.01
Hexachlorobutadiene	<0.005	0.005
Hexachloroethane	<0.01	0.01
Nitrobenzene	<0.01	0.01
Chlordane	<0.004	0.004
Endrin	<0.001	0.001
Heptachlor	<0.001	0.001
Lindane	<0.001	0.001
Methoxychlor	<0.001	0.001
Toxaphene	<0.004	0.004
2,4-D	<0.006	0.006
Silvex	<0.006	0.006
1,2-Dichlorobenzene	<0.12	0.12
1,4-Dichlorobenzene	<0.02	0.02

Notes and Definitions for this Report:

UNITS mg/liter

Controls for Environmental P tion, Inc.
OUT OF STATE 800/545-2188 • FAX · 505-90

 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID T5F0513C FRACTION 05A TEST CODE ZHE NAME Zero Head Space Extract
Date & Time Collected 07/10/90 15:13:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Acrlonitrile	<100	100
Benzene	<44	44
Carbon Disulfide	<100	100
Carbon Tetrachloride	<28	28
Chlorobenzene	<60	60
Chloroform	<16	16
1,2-Dichloroethane	<28	28
1,1-Dichloroethylene	23.6	16
Isobutanol	<100	100
Methylene Chloride	290.0	28
Methylethyl Ketone	<100	100
Pyridine	<100	100
1,1,1,2-Tetrachloroethane	<100	100
1,1,2,2-Tetrachloroethane	<69	69
Tetrachloroethylene	1790.0	41
Toluene	<60	60
1,1,1-Trichloroethane	<38	38
1,1,2-Trichloroethane	<50	50
Trichloroethylene	11000.0	19
Vinyl Chloride	<20	20

Notes and Definitions for this Report:

UNITS ug/liter

Page 19 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0514C FRACTION 06C TEST CODE TCLP NAME TCLP Metals
Date & Time Collected 07/10/90 15:34:00 Category SLUDGE

TCLP Metals	Detection Limit mg/L	RESULT
Arsenic	0.01	***
Barium	0.1	***
Cadmium	0.001	***
Chromium	0.01	***
Lead	0.01	***
Mercury	0.0004	***
Selenium	0.01	***
Silver	0.01	***

All results reported in:

UNITS mg/liter

Page 20 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID TSF0514C FRACTION 06B TEST CODE TCLP O NAME TCLP Organics
Date & Time Collected 07/10/90 15:34:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Bis(2-chloroethyl)ether	<0.02	0.02
O-cresol	<0.03	0.03
M-cresol	<0.03	0.03
P-cresol	<0.03	0.03
Pentachlorophenol	<0.01	0.01
Phenol	<0.06	0.06
2,3,4,6-Tetrachlorophenol	<0.06	0.06
2,4,5-Trichlorophenol	<0.01	0.01
2,4,6-Trichlorophenol	<0.008	0.008
2,4-Dinitrotoluene	<0.02	0.02
Hexachlorobenzene	<0.06	0.06
Hexachlorobutadiene	<0.03	0.03
Hexachloroethane	<0.06	0.06
Nitrobenzene	<0.06	0.06
Chlordane	<0.004	0.004
Endrin	<0.001	0.001
Heptachlor	<0.001	0.001
Lindane	<0.001	0.001
Methoxychlor	<0.001	0.001
Toxaphene	<0.004	0.004
2,4-D	<0.003	0.003
Silvex	<0.003	0.003
1,2-Dichlorobenzene	<0.06	0.06
1,4-Dichlorobenzene	<0.01	0.01

Notes and Definitions for this Report:

UNITS mg/liter

Page 21 CEP, Inc. REPORT Work Order # 90-08-103
Received: 08/06/90 Results by Sample

SAMPLE ID T5F0514C FRACTION 06A TEST CODE ZHE NAME Zero Head Space Extracti
Date & Time Collected 07/10/90 15:34:00 Category SLUDGE

PARAMETER	RESULT	LIMIT
Acrlonitrile	<100	100
Benzene	<44	44
Carbon Disulfide	<100	100
Carbon Tetrachloride	<28	28
Chlorobenzene	<60	60
Chloroform	<16	16
1,2-Dichloroethane	<28	28
1,1-Dichloroethylene	17.8	16
Isobutanol	<100	100
Methylene Chloride	84.5	28
Methylethyl Ketone	<100	100
Pyridine	<100	100
1,1,1,2-Tetrachloroethane	<100	100
1,1,2,2-Tetrachloroethane	<69	69
Tetrachloroethylene	3000.0	41
Toluene	<60	60
1,1,1-Trichloroethane	<38	38
1,1,2-Trichloroethane	<50	50
Trichloroethylene	10000.0	19
Vinyl Chloride	<20	20

Notes and Definitions for this Report:

UNITS ug/liter

Appendix C

Number

APPENDIX C

VALIDATED FY-89 GROUNDWATER ANALYTICAL RESULTS

DATA QUALIFIER DEFINITIONS

Organic Analysis Data Flags

A - Indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

B - Used when the analyte is found in the associated blank as well as in the sample.

C - Applies to pesticide results where the identification has been confirmed by GC/MS.

D - Identifies all compounds identified in an analysis at a secondary dilution factor.

E - Identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis

J - Indicates as estimated value.

U - Indicates compound was analyzed for but not detected.

Organic Validation Data Qualifiers

J - The analyte was positively identified in the sample, but the associated numerical value may not be an accurate representation of the amount actually present in the environmental sample. The data should be seriously considered for decision making and are usable for many purposes.

N - Presumptive evidence of the presence of the material.

NJ - Presumptive evidence of the presence of the material at an estimated quantity.

R - The data are unusable (may or may not be present). Resampling and reanalysis is necessary for verification.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFIER DEFINITIONS

Inorganic Analysis Data Flags

B - Value is less than the CRDL, but greater than the IDL.

E - Value is estimated because of the presence of interference.

N - Spiked sample recovery not within control limits.

NR - Analyte was not required to be analyzed.

S - Value was determined by the method of standard additions (MSA).

U - Analyte was analyzed for but not detected.

W - Post-digestion spike for Furnace AA analysis is out of control limits (85% to 115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

Methods

A - Flame AA.

CV - Manual Cold Vapor AA.

F - Furnace AA.

NR - Not run, analyte not required to be analyzed.

P - Inductively Couple Plasma-Atomic Emission Spectrometry.

Inorganic Validation Data Qualifiers

J - The analyte was analyzed for and was positively identified, but the associated numerical value may not be consistent with the amount actually present in the environmental sample.

R - The data are unusable.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may not accurately reflect the instrument detection limit in the sample matrix.

Reference: Environmental Restoration Department, Sample Management Office—Standard Operating Procedures 12.1.4 and 12.1.5 (EG&G, Idaho).

SW-846 Method 8240

PRACTICAL QUANTITATION LIMITS (PQL) FOR VOLATILE ORGANICS

			Practical Quantitation Limits	
			Groundwater	Low Soil/Sediment
	Volatiles	CAS Number	ug/L	ug/Kg
1.	Chloromethane	74-87-3	10	10
2.	Bromomethane	74-83-9	10	10
3.	Vinyl Chloride	75-01-4	10	10
4.	Chloroethane	75-00-3	10	10
5.	Methylene Chloride	75-09-2	5	5
6.	Acetone	67-64-1	100	100
7.	Carbon Disulfide	75-15-0	5	5
8.	1,1-Dichloroethene	75-35-4	5	5
9.	1,1-Dichloroethane	75-35-3	5	5
10.	trans-1,2-Dichloroethene	156-60-5	5	5
11.	Chloroform	67-66-3	5	5
12.	1,2-Dichloroethane	107-06-2	5	5
13.	2-Butanone	78-93-3	100	100
14.	1,1,1-Trichloroethane	71-55-6	5	5
15.	Carbon Tetrachloride	56-23-5	5	5
16.	Vinyl Acetate	108-05-4	50	50
17.	Bromodichloromethane	75-27-4	5	5
18.	1,1,2,2-Tetrachloroethane	79-34-5	5	5
19.	1,2-Dichloropropane	78-87-5	5	5
20.	trans-1,3-Dichloropropene	10061-02-6	5	5
21.	Trichloroethene	79-01-6	5	5
22.	Dibromochloromethane	124-48-1	5	5
23.	1,1,2-Trichloroethane	79-00-5	5	5
24.	Benzene	71-43-2	5	5
25.	cis-1,3-Dichloropropene	10061-01-5	5	5
26.	2-Chloroethyl Vinyl Ether	110-75-8	10	10
27.	Bromoform	75-25-2	5	5
28.	2-Hexanone	591-78-6	50	50
29.	4-Methyl-2-pentanone	108-10-1	50	50
30.	Tetrachloroethene	127-18-4	5	5

SW-846 Method 6010-Inorganics

RECOMMENDED WAVELENGTHS AND ESTIMATED INSTRUMENTAL DETECTION LIMITS

Element	Wavelength[a] (nm)	Estimated Detection Limit[b] (ug/L)
Aluminum	308.215	45
Antimony	206.833	32
Arsenic	193.696	53
Barium	455.403	2
Beryllium	313.042	0.3
Boron	249.773	5
Cadmium	226.502	4
Calcium	317.933	10
Chromium	267.716	7
Cobalt	228.616	7
Copper	324.754	6
Iron	259.940	7
Lead	220.353	42
Magnesium	279.079	30
Manganese	257.610	2
Molybdenum	202.030	8
Nickel	231.604	15
Potassium	766.491	--[c]
Selenium	196.026	75
Silicon	288.158	58
Silver	328.068	7
Sodium	588.995	29
Thallium	190.864	40
Vanadium	292.402	8
Zinc	213.856	2

a. The wavelengths listed are recommended because of their sensitivity and overall acceptance. Other wavelengths may be substituted if they can provide the needed sensitivity and are treated with the same corrective techniques for spectral interference. In time, other elements may be added as more information becomes available and as required.

b. The estimated instrumental detection limits shown are taken from Reference 1 in Section 10.0 (SW-846 3rd Edition). They are given as a guide for an instrumental limit. The actual method detection limits are sample dependent and may vary as the sample matrix varies.

c. Highly dependent on operating conditions and plasma position.

Note: Mercury was analyzed using SW-846 Method 7470.

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	ANP06	ANP08	ANP09	FET02	IET06	TAN01	TAN01
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	ANP0689001A	ANP0889001A	ANP0989001A	FET0289001A	IET0689002A	TAN0189001A	TAN0189002A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	ANP0689001	ANP0689001	ANP0689001	ANP0689001	ANP0689001	ANP0689001
FIELD MEASUREMENTS							
Depth (ft)	230-250	232-304	240-260	215-230	220-240	200-350	200-350
TARGET COMPOUNDS							
Acetone	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	5	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Trichloroethene	---	6	---	---	---	7	7
Dibromochloromethane	---	---	---	---	---	---	---
Tetrachloroethene	---	2 J	---	---	---	2 J	2 J
Toluene	---	---	---	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	10(14)d	10(14)d	7(14)d	11(14)d	10(14)d	10(14)d	10(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN02	TAN03	TAN03	TAN04	TAN05	TAN08	TAN09
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAN0289001A	TAN0389001A	TAN0389002A	TAN0489001A	TAN0589001A	TAN0889001A	TAN0989001A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	TAND389001	TAND389001	ANP0689001	ANP0689001	ANP0689001	ANP0689001
FIELD MEASUREMENTS							
Depth (ft)	235-335	230-235	230-235	235-240	280-285	232-304	290-295
TARGET COMPOUNDS							
Acetone	---	---	---	---	72	61	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	6 J	10 R	---
1,1,1-Trichloroethane	---	---	---	3 J	---	---	---
Carbon Tetrachloride	---	---	---	---	---	---	---
Trichloroethene	3 J	---	---	70	71	---	86
Dibromochloromethane	---	---	---	---	---	---	---
Tetrachloroethene	---	---	---	20	16	---	17
Toluene	---	---	---	---	---	1 J	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	10(14)d	3(14)d	3(14)d	6(14)d	5(14)d	5(14)d	8(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN10	TAN10	TAN10A	TAN11	TAN11	TAND1	TAND2
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAN1089001A	TAN1089002A	TAN10A9001A	TAN1189001A	TAN1189002A	TAND189002A	TAND289002A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	TANFB89023	TANFB89023	TANEQ90001A	TAND389001	TAND389001	ANP0689001	ANP0689001
FIELD MEASUREMENTS							
Depth (ft)	220-225	220-225	-	260-265	215-230	230-235	230-235
TARGET COMPOUNDS							
Acetone	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	2 J	85
Chloroform	---	---	---	---	---	---	---
1,2-Dichloroethane	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	1 J	1 J	---	---	---	---	---
Carbon Tetrachloride	6	6	---	---	---	---	---
Trichloroethene	28	25	26	89	---	150	820 E
Dibromochloromethane	---	---	---	---	---	---	5
Tetrachloroethene	11	11	7	24	27	23	11
Toluene	---	1 J	---	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	5(14)d	5(14)d	8(14)d	5(14)d	7(14)d	6(14)d	7(14)d

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAND2	TAND3	TAND3	USG24	USG26	USG26
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAND289002ADL	TAND389001A	TAND389002A	USG2489002A	USG2489002ADL	USG2689001A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	TAND389001	TAND389001	TAND389001	ANP0689001	ANP0689001
FIELD MEASUREMENTS						
Depth (ft)	230-235	220-225	220-225	240-245	240-245	205-260
TARGET COMPOUNDS						
Acetone	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	9	---	---
1,1-Dichloroethane	---	---	---	2 J	---	---
1,2-Dichloroethene_(total)	---	---	---	44	11 JD	---
Chloroform	---	---	---	1 J	---	---
1,2-Dichloroethane	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	12	---	---
Carbon Tetrachloride	---	---	---	---	---	---
Trichloroethene	660 D	---	---	1400 E	1300 D	---
Dibromochloromethane	---	---	---	---	---	---
Tetrachloroethene	---	---	---	71	64 D	---
Toluene	---	---	---	---	---	6
Dilution Factor	10.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	8(14)d	5(14)d	6(14)d	4(14)d	6(14)d	4(14)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	ANP06	ANP08	ANP09	FET02	IET06	TAN01
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	ANP0689001B	ANP0889001B	ANP0989001B	FET0289001B	IET0689002B	TAN0189001B
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	ANP0689001	ANP0689001	ANP0689001	ANP0689001	ANP0689001
FIELD MEASUREMENTS						
Depth (ft)	230-250	232-304	240-260	215-230	220-240	200-350
ANALYTES						
Aluminum	---	---	---	---	255	---
Antimony	---	---	---	---	---	---
Arsenic	2.9 B	2.7 B	3.5 B	3.0 B	2.7 B	2.6 B
Barium	71.0 B	103 B	98.0 B	94.0 B	136 B	119 B
Beryllium	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---
Calcium	44500	48100	38400	51500	52000	56500
Chromium	---	11.0	---	---	---	---
Cobalt	---	---	---	---	---	---
Copper	---	---	---	---	---	27.0
Iron	333	31.0 B	31.0 B	37.0 B	673	36.0 B
Lead	---	---	2.9 B	---	---	---
Magnesium	16400	15600	15800	15500	14700	16600
Manganese	9.0 B	5.0 B	6.0 B	5.0 B	175	6.0 B
Mercury	---	---	---	---	---	---
Nickel	---	---	---	---	---	---
Potassium	2420 B	3880 B	3380 B	2590 B	4380 B	2450 B
Selenium	1.0 B	1.4 B	1.3 B	---	---	1.0 B
Silver	---	---	---	---	1.0 B	---
Sodium	10600	10000	16000	9180	22900	8930
Thallium	---	---	1.0 B	---	---	---
Vanadium	---	---	---	---	---	---
Zinc	67.0	---	---	---	87.0	---
Cyanide	NR	NR	NR	NR	NR	NR
Total (Allowed) Hold Time[a]	9(182)d	10(182)d	4(182)d	8(182)d	9(182)d	10(182)d
Total (Allowed) Hold Time[b]	7(28)d	8(28)d	15(28)d	6(28)d	7(28)d	8(28)d
Total (Allowed) Hold Time[c]	9(182)d	10(182)d	4(182)d	8(182)d	9(182)d	10(182)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN01	TAN02	TAN03	TAN03	TAN04	TAN05
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAN0189002B	TAN0289001B	TAN0389001B	TAN0389002B	TAN0489001B	TAN0589001B
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	ANP0689001	TAND389001	TAND389001	ANP0689001	ANP0689001
FIELD MEASUREMENTS						
Depth (ft)	200-350	235-335	230-235	230-235	235-240	280-285
ANALYTES						
Aluminum	---	---	---	---	---	---
Antimony	---	---	---	---	---	---
Arsenic	2.6 B	2.7 B	---	---	---	---
Barium	119 B	106 B	99.0 B	99.0 BE	173 B	127 B
Beryllium	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---
Calcium	54500	53500	53000 *	52000 *	59500	61500
Chromium	---	---	---	---	10.0	---
Cobalt	---	---	---	---	---	---
Copper	---	28.0	---	---	156	---
Iron	35.0 B	73.0 B	87.0 B	101	244	456
Lead	---	2.1 B	4.4	80.3	20.7	---
Magnesium	16800	14500	14100	14100	15900	15900
Manganese	6.0 B	6.0 B	13.0 B	13.0 B	284	11.0 B
Mercury	---	---	2.0	5.0	---	---
Nickel	---	---	---	---	---	---
Potassium	2490 B	3200 B	4700 B	4760 B	3630 B	2770 B
Selenium	1.4 B	---	1.6 B	2.1 B	1.4 B	---
Silver	---	---	---	---	---	---
Sodium	8630	7970	8450 *	8350 E	10700	10000
Thallium	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---
Zinc	---	45.0	608	610	935	587
Cyanide	NR	NR	NR	NR	NR	NR
Total (Allowed) Hold Time[a]	10(182)d	10(182)d	9(182)d	9(182)d	3(182)d	2(182)d
Total (Allowed) Hold Time[b]	8(28)d	8(28)d	21(28)d	21(28)d	14(28)d	13(28)d
Total (Allowed) Hold Time[c]	10(182)d	10(182)d	1(182)d	1(182)d	3(182)d	2(182)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _-_-_ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN08	TAN09	TAN10	TAN10	TAN11	TAN11
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAN0889001B	TAN0989001B	TAN1089001B	TAN1089002B	TAN1189001B	TAN11890028
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	ANP0689001	TANFB89023	TANFB89023	TAND389001	TAND389001
FIELD MEASUREMENTS						
Depth (ft)	230-252	290-295	220-225	220-225	260-265	260-265
ANALYTES						
Aluminum	---	---	---	---	---	---
Antimony	---	---	---	---	---	---
Arsenic	2.4 B	---	---	---	---	---
Barium	111 B	270	206	238	104 BE	105 B
Beryllium	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---
Calcium	54000	94600	8390	103000	55000 *	54500 *
Chromium	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---
Copper	---	---	---	---	---	---
Iron	177	278	262	250	801	646
Lead	---	3.7	8.1	2.6 B	2.7 B	4.7
Magnesium	13600	25600	20400 B	25000 B	19800	19600
Manganese	14.0 B	15.0	67.0	80.0	39.0	41.0
Mercury	---	---	---	---	---	---
Nickel	---	---	---	---	---	---
Potassium	5440	5100	3590 B	4180 B	4420 B	4530 B
Selenium	---	---	---	---	---	---
Silver	---	---	---	---	---	---
Sodium	8070	44000	28400	33500	16400 E	16700 E
Thallium	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---
Zinc	423	724	123	144	580	560
Cyanide	NR	NR	NR	NR	NR	NR
Total (Allowed) Hold Time[a]	2(182)d	3(182)d	22(182)d	22(182)d	13(182)d	13(182)d
Total (Allowed) Hold Time[b]	13(28)d	8(28)d	4(28)d	4(28)d	5(28)d	5(28)d
Total (Allowed) Hold Time[c]	2(182)d		8(182)d	8(182)d	5(182)d	5(182)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAND1	TAND2	TAND3	TAND3	USG24	USG26
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAND189002B	TAND289002B	TAND389001B	TAND389002B	USG2489002B	USG2689001B
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	ANP0689001	TAND389001	TAND389001	TAND389001	ANP0689001
FIELD MEASUREMENTS						
Depth (ft)	215-230	230-235	220-225	220-225	240-245	205-260
ANALYTES						
Aluminum	---	243	---	---	---	---
Antimony	---	---	---	---	---	---
Arsenic	---	2.5 B	---	---	---	2.8 B
Barium	85.0 B	312	88.0 BE	86.0 BE	204 E	47.0 B
Beryllium	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---
Calcium	5800 B	90900	53900 *	54500 *	47400 *	42700
Chromium	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---
Copper	---	25.0	---	---	---	---
Iron	356	808	347	343	243	183
Lead	---	8.4	6.8	4.5	13.5	---
Magnesium	19800	23300	15800	15500	19100	15400
Manganese	23.0	64.0	---	---	---	6.0 B
Mercury	---	---	---	---	---	---
Nickel	---	---	---	---	---	---
Potassium	4720 B	4870 B	3660 B	3700 B	3700 B	3630 B
Selenium	2.2 BW	---	1.3 BW	1.1 BW	1.2 BW	---
Silver	---	---	---	---	---	---
Sodium	14000	72900	7490 E	7430 E	27100 E	15800
Thallium	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---
Zinc	20.0	44.0	40.0	40.0	159	---
Cyanide	NR	NR	NR	NR	NR	NR
Total (Allowed) Hold Time[a]	7(182)d	3(182)d	14(182)d	14(182)d	15(182)d	3(182)d
Total (Allowed) Hold Time[b]	12(28)d	8(28)d	6(28)d	6(28)d	7(28)d	14(28)d
Total (Allowed) Hold Time[c]	7(182)d	3(182)d	6(182)d	6(182)d	7(182)d	3(182)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _.-._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	ANP06	ANP08	ANP09	FET02	IET06	TAND1
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	ANP0689001C	ANP0889001C	ANP0989001C	FET0289001C	IET0689002C	TAND189002C
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	ANP0689001	ANP0689001	ANP0689001	ANP0689001	ANP0689001
TARGET COMPOUNDS						
Alkalinity	140000	140000	132000	140000	158000	124000
Chloride	10900	11800	11800	14700	22700	49500
Fluoride	280	240	430	230	200	140
Nitrate	869	1037	881	956	817	744
Sulfate	32600	30000	31000	34400	33600	33900
Total (Allowed) Hold Time						
Alkalinity	9(14)d	9(14)d	3(14)d	8(14)d	9(14)d	8(14)d
Chloride	13(28)d	13(28)d	7(28)d	12(28)d	13(28)d	4(28)d
Fluoride	15(28)d	15(28)d	9(28)d	14(28)d	15(28)d	6(28)d
Nitrate	28(28)d	28(28)d	2(28)d	27(28)d	28(28)d	19(28)d
Sulfate	13(28)d	13(28)d	7(28)d	12(28)d	13(28)d	4(28)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAND2	TAND3	TAND3	TAN01	TAN01	TAN02
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAND289002C	TAND389001C	TAND389002C	TAN0189001C	TAN0189002C	TAN0289001C
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0689001	TAND389001	TAND389001	ANP0689001	ANP0689001	ANP0689001
TARGET COMPOUNDS						
Alkalinity	212000	142000	146000	146000	146000	146000
Chloride	81000	12300	12400	22900	22400	11500
Fluoride	130	240	240	210	190	230
Nitrate	3188	1130	1110	1660	1664	2113
Sulfate	43200	33800	34000	35900	34100	31600
Total (Allowed) Hold Time						
Alkalinity	4(14)d	6(14)d	6(14)d	9(14)d	9(14)d	9(14)d
Chloride	34(28)d*	31(28)d*	31(28)d*	13(28)d	13(28)d	13(28)d
Fluoride	34(28)d*	34(28)d*	34(28)d*	15(28)d	15(28)d	15(28)d
Nitrate	33(28)d*	13(28)d	13(28)d	28(28)d	28(28)d	28(28)d
Sulfate	2(28)d	31(28)d*	31(28)d*	23(28)d	13(28)d	13(28)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN03	TAN03	TAN04	TAN05	TAN08	TAN09
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAN0389001C	TAN0389002C	TAN0489001C	TAN0589001C	TAN0889001C	TAN0989001C
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	TAND389001	TAND389001	ANP0689001	ANP0689001	ANP0689001	ANP0689001
TARGET COMPOUNDS						
Alkalinity	138000	138000	156000	147000	117000	186000
Chloride	13400	13400	23800	28200	37200	79000
Fluoride	260	240	240	220	200	180
Nitrate	1010	1010	1437	1177	1105	2347
Sulfate	33800	33700	28200	31200	26000	45200
Total (Allowed) Hold Time						
Alkalinity	11(14)d	11(14)d	2(14)d	2(14)d	2(14)d	4(14)d
Chloride	26(28)d	26(28)d	6(28)d	5(28)d	5(28)d	34(28)d*
Fluoride	29(28)d*	29(28)d*	8(28)d	7(28)d	7(28)d	34(28)d*
Nitrate	8(28)d	8(28)d	21(28)d	20(28)d	20(28)d	33(28)d*
Sulfate	26(28)d	26(28)d	6(28)d	5(28)d	5(28)d	2(28)d

TABLE _._._ 1989 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN10	TAN10	TAN11	TAN11	USG24	USG26
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	TAN1089001C	TAN1089002C	TAN1189001C	TAN1189002C	USG2489002C	USG2689001C
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	TANFB89023	TANFB89023	TAND389001	TAND389001	TAND389001	ANP0689001
TARGET COMPOUNDS						
Alkalinity	174000	182000	141000	142000	160000	142000
Chloride	1131000	107000	47800	47800	71200	12600
Fluoride	160	210	230	240	210	460
Nitrate	614	497	870	928	2020	982
Sulfate	375000	37400	28800	28800	36600	29000
Total (Allowed) Hold Time						
Alkalinity	12(14)d	12(14)d	5(14)d	5(14)d	3(14)d	2(14)d
Chloride	28(28)d	28(28)d	30(28)d*	30(28)d*	32(28)d*	6(28)d
Fluoride	27(28)d	27(28)d	33(28)d*	33(28)d*	35(28)d*	8(28)d
Nitrate	29(28)d*	29(28)d*	12(28)d	12(28)d	14(28)d	21(28)d
Sulfate	28(28)d	28(28)d	30(28)d*	30(28)d*	32(28)d*	6(28)d

DATA QUALIFIER DEFINITIONS

Radiological Data Qualifier Flags (DQF)

No Flag - The associated sample result is a true positive result and is considered valid and usable.

J - The associated sample result is an estimated quantity due to quality control or documentation problems. These results should be treated as estimates only. Absolute quantitative or risk assessments should not be made from results flagged with a "J," but these results can be used for yes/no decisions as to whether a contaminant is present at the sampling location.

U - The constituent of interest was analyzed for, but was not detected above the minimum detectable activity of the instrumentation. There may or may not be a result provided in the data package. If no result is provided a "zero" result should not be entered in its place as the zero may be mistakenly included in statistical calculations performed from the sample results.

R - The sample result is not to be used for any purpose.

Radiological Analytical Support Level (ASL)

Level 3 - Level 3 analytical data is defined as sample results obtain from an analytical laboratory which has been approved by the Environmental Restoration Program Sample Management office approval process. Level 3 analytical data must have supporting quality control information.

Level 3 sample results can be used for quantification of activity levels, for determination of the level and extent of radioactive contamination, for making disposal decisions, for development of remedial actions, and, with limitations, for risk assessment calculations.

Level 3 provides low detection limits with known precision and accuracy, and accepted laboratory methods.

Level 4 - Level 4 analytical data is defined as sample results that come from an Environmental Restoration Program Sample Management Office approved laboratory and have complete supporting quality control information. Level 4 sample results can be used for any required purpose including; quantification of activity levels, determination of the extent of radioactive contamination, development of remedial actions, and risk assessment calculations. Level 4 is used when comprehensive data quality documentation is required.

TABLE . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR GAMMA-EMITTING RADIONUCLIDES

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
ANP0689001G	A6121889026	WATER	GAMMA	ND		pCi/mL	12/18/89	11/29/89	540.0000	0.0	RML A6	U	4
ANP0889001G	A5120889037	WATER	GAMMA	ND		pCi/mL	12/08/89	11/28/89	540.0000	0.0	RML A5	U	4
ANP0989001G	A6120489034	WATER	GAMMA	ND		pCi/mL	12/04/89	12/04/89	540.0000	0.0	RML A6	U	4
FET0289001G	A6121589029	WATER	GAMMA	ND		pCi/mL	12/15/89	11/30/89	540.0000	0.0	RML A6	U	4
IET0689002G	A5121889025	WATER	GAMMA	ND		pCi/mL	12/18/89	11/29/89	540.0000	0.0	RML A5	U	4
TAN0189001G	A6120789033	WATER	GAMMA	ND		pCi/mL	12/07/89	11/28/89	540.0000	0.0	RML A6	U	4
TAN0189002G	A6121189031	WATER	GAMMA	ND		pCi/mL	12/11/89	11/28/89	540.0000	0.0	RML A6	U	4
TAN0289001G	A6121389025	WATER	GAMMA	ND		pCi/mL	12/13/89	11/28/89	490.0000	0.0	RML A6	U	4
TAN0389001G	A5010290039	WATER	GAMMA	ND		pCi/mL	01/02/90	12/18/89	520.0000	0.0	RML A5	U	4
TAN0389002G	A6010290040	WATER	GAMMA	ND		pCi/mL	01/02/90	12/18/89	530.0000	0.0	RML A6	U	4
TAN0489001G	A5122189033	WATER	GAMMA	ND		pCi/mL	12/21/89	12/05/89	520.0000	0.0	RML A5	U	4
TAN0589001G	A5121989019	WATER	GAMMA	ND		pCi/mL	12/19/89	12/06/89	530.0000	0.0	RML A5	U	4
TAN0889001G	A6121989020	WATER	GAMMA	ND		pCi/mL	12/19/89	12/06/89	500.0000	0.0	RML A6	U	4

TABLE . . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR GAMMA-EMITTING RADIONUCLIDES

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0989001G	A6122789039	WATER	GAMMA	ND		pCi/mL	12/27/89	12/11/89	540.0000	0.0	RML A6	U	4
TAN1089001G	A6011190040	WATER	GAMMA	ND		pCi/mL	01/11/90	01/11/90	540.0000	0.0	RML A6	U	4
TAN1089002G	A5011190039	WATER	GAMMA	ND		pCi/mL	01/11/90	01/11/90	540.0000	0.0	RML A5	U	4
TAN1189001G	A6122289040	WATER	GAMMA	ND		pCi/mL	12/22/89	12/14/89	540.0000	0.0	RML A6	U	4
TAN1189002G	A5122289039	WATER	GAMMA	ND		pCi/mL	12/22/89	12/14/89	530.0000	0.0	RML A5	U	4
TAND189002G	A6120889038	WATER	GAMMA	ND		pCi/mL	12/08/89	12/07/89	540.0000	0.0	RML A6	U	4
TAND289002G	A5122789038	WATER	GAMMA	ND		pCi/mL	12/27/89	12/11/89	540.0000	0.0	RML A5	U	4
TAND389001G	A5122889031	WATER	GAMMA	ND		pCi/mL	12/28/89	12/13/89	530.0000	0.0	RML A5	U	4
TAND389002G	A5122989030	WATER	GAMMA	ND		pCi/mL	12/29/89	12/13/89	540.0000	0.0	RML A5	U	4
TANEQ89005G	A6122889032	WATER	GAMMA	ND		pCi/mL	12/28/89	12/11/89	540.0000	0.0	RML A6	U	4
TANEQ89006G	A6122989031	WATER	GAMMA	ND		pCi/mL	12/29/89	12/13/89	530.0000	0.0	RML A6	U	4
TANEQ8904GG	A6122089017	WATER	GAMMA	ND		pCi/mL	12/20/89	12/05/89	520.0000	0.0	RML A6	U	4
TANTS89005G	A5012290028	WATER	GAMMA	ND		pCi/mL	01/22/90	01/16/90	540.0000	0.0	RML A5	U	4

TABLE . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR GAMMA-EMITTING RADIONUCLIDES

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
USG2489002G	A6121289027	WATER	GAMMA	ND		pCi/mL	12/12/89	12/12/89	530.0000	0.0	RML A6	U	4
USG2689001G	A5122089016	WATER	GAMMA	ND		pCi/mL	12/20/89	12/05/89	540.0000	0.0	RML A5	U	4

TABLE . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR TRITIUM

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
ANP0689001F	A6121889026	WATER	H3	-1.6E-01	0.6E-01	pCi/mL	12/18/89	11/29/89	10.0000		RML A6	U	3
ANP0889001F	A5120889037	WATER	H3	-2.2E-01	0.8E-01	pCi/mL	12/08/89	11/28/89	10.0000		RML A5	U	3
ANP0989001F	A6120489034	WATER	H3	-4E-02	7E-02	pCi/mL	12/04/89	12/04/89	10.0000		RML A6	U	3
FET0289001F	A6121589029	WATER	H3	-2.1E-01	0.7E-01	pCi/mL	12/15/89	11/30/89	10.0000		RML A6	U	3
IET0689002F	A5121889025	WATER	H3	-2.0E-01	0.7E-01	pCi/mL	12/18/89	11/29/89	10.0000		RML A5	U	3
TAN0189001F	A6120789033	WATER	H3	-1.4E-01	0.5E-01	pCi/mL	12/07/89	11/28/89	10.0000		RML A6	U	3
TAN0189002F	A6121189031	WATER	H3	-2.0E-01	0.7E-01	pCi/mL	12/11/89	11/28/89	10.0000		RML A6	U	3
TAN0289001F	A6121389025	WATER	H3	-1.6E-01	0.6E-01	pCi/mL	12/13/89	11/28/89	10.0000		RML A6	U	3
TAN0389001F	A5010290039	WATER	H3	-2.0E-01	1.0E-01	pCi/mL	01/02/90	12/18/89	10.0000		RML A5	U	3
TAN0389002F	A6010290040	WATER	H3	-2.0E-01	1.2E-01	pCi/mL	01/02/90	12/18/89	10.0000		RML A6	U	3
TAN0489001F	A5122189033	WATER	H3	9.E-01	2E-01	pCi/mL	12/21/89	12/05/89	10.0000		RML A5		3
TAN0589001F	A5121989019	WATER	H3	1.7E+00	0.4E+00	pCi/mL	12/19/89	12/06/89	10.0000		RML A5		3
TAN0889001F	A6121989020	WATER	H3	-1E-02	8E-02	pCi/mL	12/19/89	12/06/89	10.0000		RML A6	U	3

3-9-92

TABLE . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR TRITIUM

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0989001F	A6122789039	WATER	H3	8.0E+00	0.6E+00	pCi/mL	12/27/89	12/11/89	10.0000		RML A6		3
TAN1089001F	A6011190040	WATER	H3	2.8E+00	0.3E+00	pCi/mL	01/11/90	01/11/90	10.0000		RML A6		3
TAN1089002F	A5011190039	WATER	H3	2.7E+00	0.3E+00	pCi/mL	01/11/90	01/11/90	10.0000		RML A5		3
TAN1189001F	A6122289040	WATER	H3	3.1E+00	0.5E+00	pCi/mL	12/22/89	12/14/89	10.0000		RML A6		3
TAN1189002F	A5122289039	WATER	H3	3.5E+00	0.6E+00	pCi/mL	12/22/89	12/14/89	10.0000		RML A5		3
TAND189002F	A6120889038	WATER	H3	2.0E+00	0.4E+00	pCi/mL	12/08/90	12/07/89	10.0000		RML A6		3
TAND289002F	A5122789038	WATER	H3	4.4E+00	0.7E+00	pCi/mL	12/27/89	12/11/89	10.0000		RML A5		3
TAND389001F	A5122889031	WATER	H3	-3.5E-01	0.2E-01	pCi/mL	12/28/89	12/13/89	10.0000		RML A5	U	3
TAND389002F	A5122989030	WATER	H3	-2.0E-01	1.1E-01	pCi/mL	12/29/89	12/13/89	10.0000		RML A5	U	3
TANEQ89005F	A6122889032	WATER	H3	-1.6E-01	0.8E-01	pCi/mL	12/28/89	12/11/89	10.0000		RML A6	U	3
TANEQ89006F	A6122989031	WATER	H3	3.0E-01	1.1E-01	pCi/mL	12/29/89	12/13/89	10.0000		RML A6		3
TANEQ8904F	A6122089017	WATER	H3	8E-02	8E-02	pCi/mL	12/20/89	12/05/89	10.0000		RML A6	U	3
TANTS89005F	A5012290028	WATER	H3	3.6E+00	0.2E+00	pCi/mL	01/22/90	01/16/90	10.0000		RML A5		3

3-9-92

TABLE . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR TRITIUM

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
USG2489002F	A6121289027	WATER	H3	9.8E+00	0.7E+00	pCi/mL	12/12/89	12/12/89	10.0000		RML A6		3
USG2689001F	A5122089016	WATER	H3	5E-02	8E-02	pCi/mL	12/20/89	12/05/89	10.0000		RML A5	U	3

3-9-92

TABLE . . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR STRONTIUM-90

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
ANP0689001H	A6121889026	WATER	SR-90	2E-03	2E-03	pCi/mL	12/18/89	11/29/89	500.0000	0.0	RML A6	U	3
ANP0889001H	A5120889037	WATER	SR-90	1E-03	2E-03	pCi/mL	12/08/89	12/04/89	500.0000	0.0	RML A5	U	3
ANP0989001H	A6120489034	WATER	SR-90	-1E-03	2E-03	pCi/mL	12/04/89	12/04/89	500.0000	0.0	RML A6	U	3
FET0289001H	A6121589029	WATER	SR-90	7E-04	23E-04	pCi/mL	12/15/89	11/30/89	500.0000	0.0	RML A6	U	3
IET0689002H	A5121889025	WATER	SR-90	2E-03	2E-03	pCi/mL	12/18/89	11/29/89	500.0000	0.0	RML A5	U	3
TAN0189001H	A6120789033	WATER	SR-90	1.0E-02	0.2E-02	pCi/mL	12/07/89	11/28/89	500.0000	0.0	RML A6	R	3
TAN0189002H	A6121189031	WATER	SR-90	4E-03	2E-03	pCi/mL	12/11/89	11/28/89	500.0000	0.0	RML A6		3
TAN0289001H	A6121389025	WATER	SR-90	4E-03	2E-03	pCi/mL	12/13/89	11/28/89	500.0000	0.0	RML A6		3
TAN0389001H	A5010290039	WATER	SR-90	2E-03	3E-03	pCi/mL	01/02/90	12/18/89	500.0000	0.0	RML A5	U	3
TAN0389002H	A6010290040	WATER	SR-90	8E-04	19E-04	pCi/mL	01/02/90	12/18/89	500.0000	0.0	RML A6	U	3
TAN0489001H	A5122189033	WATER	SR-90	2E-03	2E-03	pCi/mL	12/21/89	12/05/89	500.0000	0.0	RML A5	U	3
TAN0589001H	A5121989019	WATER	SR-90	1E-03	2E-03	pCi/mL	12/19/89	12/06/89	500.0000	0.0	RML A5	U	3
TAN0889001H	A6121989020	WATER	SR-90	3E-03	2E-03	pCi/mL	12/19/89	12/06/89	500.0000	0.0	RML A6	U	3

4-1-92

TABLE . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR STRONTIUM-90

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0989001H	A6122789039	WATER	SR-90	1.5E-02	0.3E-02	pCi/mL	12/27/89	12/11/89	500.0000	0.0	RML A6		3
TAN1089001H	A6011190040	WATER	SR-90	7.6E-02	0.7E-02	pCi/mL	01/11/90	01/11/90	500.0000	0.0	RML A6		3
TAN1089002H	A5011190039	WATER	SR-90	7.5E-02	0.8E-02	pCi/mL	01/11/90	01/11/90	500.0000	0.0	RML A5		3
TAN1189001H	A6122289040	WATER	SR-90	6E-03	2E-03	pCi/mL	12/22/89	12/14/89	500.0000	0.0	RML A6		3
TAN1189002H	A5122289039	WATER	SR-90	3E-03	2E-03	pCi/mL	12/22/89	12/14/89	500.0000	0.0	RML A5	U	3
TAND189002H	A6120889038	WATER	SR-90	1E-04	24E-04	pCi/mL	12/08/89	12/07/89	500.0000	0.0	RML A6	U	3
TAND289002H	A5122789038	WATER	SR-90	2.3E-01	0.2E-01	pCi/mL	12/27/89	12/11/89	500.0000	0.0	RML A5		3
TAND389001H	A5122889031	WATER	SR-90	-2E-03	2E-03	pCi/mL	12/28/89	12/13/89	500.0000	0.0	RML A5	U	3
TAND389002H	A5122989030	WATER	SR-90	-2E-03	2E-03	pCi/mL	12/29/89	12/13/89	500.0000	0.0	RML A5	U	3
TANEQ89005H	A6122889032	WATER	SR-90	9E-04	20E-04	pCi/mL	12/28/89	12/11/89	500.0000	0.0	RML A6	U	3
TANEQ89006H	A6122989031	WATER	SR-90	4E-03	2E-03	pCi/mL	12/29/89	12/13/89	500.0000	0.0	RML A6		3
TANEQ8904H	A6122089017	WATER	SR-90	2E-04	19E-04	pCi/mL	12/20/89	12/05/89	500.0000	0.0	RML A6	U	3
TANTS89005H	A5012290028	WATER	SR-90	4E-03	2E-03	pCi/mL	01/22/90	01/16/90	500.0000	0.0	RML A5		3

3-9-92

TABLE . . 1989 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR STRONTIUM-90

Date: 02/01/90

Lab Name: RML

Case No.:

Report No.: STCS00490

SDG No.: STCS00490

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
USG2489002H	A6121289027	WATER	SR-90	9E-04	21E-04	pCi/mL	12/12/89	12/12/89	500.0000	0.0	RML A6	U	3
USG2689001H	A5122089016	WATER	SR-90	2E-03	2E-03	pCi/mL	12/20/89	12/05/89	500.0000	0.0	RML A5	U	3

3-9-92

Appendix D

Number

APPENDIX D

VALIDATED FY-90 GROUNDWATER ANALYTICAL RESULTS

DATA QUALIFIER DEFINITIONS

Organic Analysis Data Flags

A - Indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

B - Used when the analyte is found in the associated blank as well as in the sample.

C - Applies to pesticide results where the identification has been confirmed by GC/MS.

D - Identifies all compounds identified in an analysis at a secondary dilution factor.

E - Identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis

J - Indicates as estimated value.

U - Indicates compound was analyzed for but not detected.

Organic Validation Data Qualifiers

J - The analyte was positively identified in the sample, but the associated numerical value may not be an accurate representation of the amount actually present in the environmental sample. The data should be seriously considered for decision making and are usable for many purposes.

N - Presumptive evidence of the presence of the material.

NJ - Presumptive evidence of the presence of the material at an estimated quantity.

R - The data are unusable (may or may not be present). Resampling and reanalysis is necessary for verification.

U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

DATA QUALIFIER DEFINITIONS

Inorganic Analysis Data Flags

B - Value is less than the CRDL, but greater than the IDL.

E - Value is estimated because of the presence of interference.

N - Spiked sample recovery not within control limits.

NR - Analyte was not required to be analyzed.

S - Value was determined by the method of standard additions (MSA).

U - Analyte was analyzed for but not detected.

W - Post-digestion spike for Furnace AA analysis is out of control limits (85% to 115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

Methods

A - Flame AA.

CV - Manual Cold Vapor AA.

F - Furnace AA.

NR - Not run, analyte not required to be analyzed.

P - Inductively Couple Plasma-Atomic Emission Spectrometry.

Inorganic Validation Data Qualifiers

J - The analyte was analyzed for and was positively identified, but the associated numerical value may not be consistent with the amount actually present in the environmental sample.

R - The data are unusable.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may not accurately reflect the instrument detection limit in the sample matrix.

Reference: Environmental Restoration Department, Sample Management Office—Standard Operating Procedures 12.1.4 and 12.1.5 (EG&G, Idaho).

SW-846 Method 8240

PRACTICAL QUANTITATION LIMITS (PQL) FOR VOLATILE ORGANICS

			Practical Quantitation Limits	
			Groundwater	Low Soil/Sediment
	Volatiles	CAS Number	ug/L	ug/Kg
1.	Chloromethane	74-87-3	10	10
2.	Bromomethane	74-83-9	10	10
3.	Vinyl Chloride	75-01-4	10	10
4.	Chloroethane	75-00-3	10	10
5.	Methylene Chloride	75-09-2	5	5
6.	Acetone	67-64-1	100	100
7.	Carbon Disulfide	75-15-0	5	5
8.	1,1-Dichloroethene	75-35-4	5	5
9.	1,1-Dichloroethane	75-35-3	5	5
10.	trans-1,2-Dichloroethene	156-60-5	5	5
11.	Chloroform	67-66-3	5	5
12.	1,2-Dichloroethane	107-06-2	5	5
13.	2-Butanone	78-93-3	100	100
14.	1,1,1-Trichloroethane	71-55-6	5	5
15.	Carbon Tetrachloride	56-23-5	5	5
16.	Vinyl Acetate	108-05-4	50	50
17.	Bromodichloromethane	75-27-4	5	5
18.	1,1,2,2-Tetrachloroethane	79-34-5	5	5
19.	1,2-Dichloropropane	78-87-5	5	5
20.	trans-1,3-Dichloropropene	10061-02-6	5	5
21.	Trichloroethene	79-01-6	5	5
22.	Dibromochloromethane	124-48-1	5	5
23.	1,1,2-Trichloroethane	79-00-5	5	5
24.	Benzene	71-43-2	5	5
25.	cis-1,3-Dichloropropene	10061-01-5	5	5
26.	2-Chloroethyl Vinyl Ether	110-75-8	10	10
27.	Bromoform	75-25-2	5	5
28.	2-Hexanone	591-78-6	50	50
29.	4-Methyl-2-pentanone	108-10-1	50	50
30.	Tetrachloroethene	127-18-4	5	5

SW-846 Method 6010—Inorganics

RECOMMENDED WAVELENGTHS AND ESTIMATED INSTRUMENTAL DETECTION LIMITS

Element	Wavelength[a] (nm)	Estimated Detection Limit[b] (ug/L)
Aluminum	308.215	45
Antimony	206.833	32
Arsenic	193.696	53
Barium	455.403	2
Beryllium	313.042	0.3
Boron	249.773	5
Cadmium	226.502	4
Calcium	317.933	10
Chromium	267.716	7
Cobalt	228.616	7
Copper	324.754	6
Iron	259.940	7
Lead	220.353	42
Magnesium	279.079	30
Manganese	257.610	2
Molybdenum	202.030	8
Nickel	231.604	15
Potassium	766.491	--[c]
Selenium	196.026	75
Silicon	288.158	58
Silver	328.068	7
Sodium	588.995	29
Thallium	190.864	40
Vanadium	292.402	8
Zinc	213.856	2

a. The wavelengths listed are recommended because of their sensitivity and overall acceptance. Other wavelengths may be substituted if they can provide the needed sensitivity and are treated with the same corrective techniques for spectral interference. In time, other elements may be added as more information becomes available and as required.

b. The estimated instrumental detection limits shown are taken from Reference 1 in Section 10.0 (SW-846 3rd Edition). They are given as a guide for an instrumental limit. The actual method detection limits are sample dependent and may vary as the sample matrix varies.

c. Highly dependent on operating conditions and plasma position.

Note: Mercury was analyzed using SW-846 Method 7470.

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	ANP-06	ANP-08	ANP-09	FET-02	IET-06	IET-06	TAN-01
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	ANP0690001A	ANP0890001A	ANP0990001A	FET0290001A	IET0690001A	IET0690002A	TAN0190001A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	9011L778	9010L225	9012L818	9010L225	9011L778	9011L778	9010L225
TARGET COMPOUNDS							
Chloromethane	---	---	---	---	---	---	---
Methylene Chloride	---	---	---	---	---	---	---
Acetone	---	---	---	---	---	---	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Trichloroethene	---	7	---	---	---	---	8
Tetrachloroethene	---	3 J	---	---	---	---	3 J
Toluene	---	---	---	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	7(14)d	7(14)d	9(14)d	7(14)d	8(14)d	8(14)d	4(14)d

6-25-92

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-02	TAN-03	TAN-04	TAN-05	TAN-06	TAN-07	TAN-07
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN0290001A	TAN0390001A	TAN0490001A	TAN0590001A	TAN0690001A	TAN0790001A	TAN0790002A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	9010L225	9011L778	9010L225	9010L225	9011L778	9011L778	9011L778
TARGET COMPOUNDS							
Chloromethane	---	---	---	---	---	---	---
Methylene Chloride	---	---	---	---	26 B	---	---
Acetone	---	---	---	---	9 JB	---	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
2-Butanone	---	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	3 J	2 J	---	---	---
Trichloroethene	2 J	---	73	100	---	---	---
Tetrachloroethene	---	---	24	28	---	---	---
Toluene	---	---	---	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	7(14)d	7(14)d	3(14)d	11(14)d	8(14)d	7(14)d	7(14)d

6-25-92

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-08	TAN-09	TAN-09	TAN-10A	TAN-11	TAN-12	TAN-13A
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN0890001A	TAN0990001A	TAN0990002A	TAN10A9002A	TAN1190001A	TAN1290001A	TAN13A9001A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	9012L038	9011L778	9011L778	9010L225	9010L225	9010L225	9011L778
TARGET COMPOUNDS							
Chloromethane	---	---	---	---	---	1 J	---
Methylene Chloride	---	---	---	---	---	---	---
Acetone	---	---	---	---	---	---	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
1,1-Dichloroethane	---	---	---	---	---	---	---
1,2-Dichloroethene_(total)	---	2 J	2 J	---	---	---	---
2-Butanone	---	---	---	---	---	---	10 UR
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Trichloroethene	---	90	90	18	75	39	---
Tetrachloroethene	---	20	19	6	21	13	---
Toluene	---	---	---	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	8(14)d	7(14)d	7(14)d	8(14)d	8(14)d	3(14)d	9(14)d

6-25-92

TABLE _-_-_ 1990 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-13A	TAN-14	TAN-14	TAN-15	TAN-16	TAN-16	TAN-17
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN13A9002A	TAN1490001A	TAN1490002A	TAN1590001A	TAN1690001A	TAN1690002A	TAN1790001A
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	9011L778	9010L225	9010L225	9010L225	9010L225	9010L225	9012L818
TARGET COMPOUNDS							
Chloromethane	---	---					
Methylene Chloride	---	---	---	---	---	---	---
Acetone	---	---	---	---	---	---	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	---	---
			---	---	---	---	---
1,1-Dichloroethane	---	---					
1,2-Dichloroethene_(total)	---	---	---	---	---	---	---
2-Butanone	10 UR	---	---	---	---	---	---
1,1,1-Trichloroethane	---	---	---	---	---	---	---
Trichloroethene	---	---	---	---	---	---	---
			---	32	41	40	---
Tetrachloroethene	---	---					
Toluene	1 J	---	---	8	9	9	---
			---	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Total (Allowed) Hold Time	9(14)d	4(14)d	4(14)d	11(14)d	8(14)d	8(14)d	9(14)d

6-25-92

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN DISP 1	TAN DISP 2	TAN DISP 3	GIN-2	GIN-4	USGS-24	USGS-24
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAND190001A	TAND290001A	TAND390001A	TANG290001A	TANG490001A	TANGS24911A	TANGS24911ADL
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	9011L778	9010L225	9011L778	9012L818	9011L778	9101L125	9101L125
TARGET COMPOUNDS							
Chloromethane	---	---	---	---	---	---	---
Methylene Chloride	---	---	---	---	---	---	---
Acetone	---	---	---	---	---	---	---
Carbon Disulfide	---	---	---	---	---	---	---
1,1-Dichloroethene	---	---	---	---	---	7	---
1,1-Dichloroethane	---	---	---	---	---	1 J	---
1,2-Dichloroethene_(total)	2 J	14	---	---	---	47	---
2-Butanone	---	10 UR	---	10 UR	10 UR	---	---
1,1,1-Trichloroethane	---	---	---	---	---	11	---
Trichloroethene	140	240	---	3 J	2 J	0 E	720
Tetrachloroethene	19	8	---	2 J	1 J	51	---
Toluene	---	---	---	---	---	---	---
Dilution Factor	1.000	1.000	1.000	1.000	1.000	1.000	5.000
Total (Allowed) Hold Time	9(14)d	6(14)d	13(14)d	9(14)d	8(14)d	7(14)d	8(14)d

6-25-92

TABLE _-_-_ 1990 TAN HYDROGEOLOGIC INVESTIGATION - VOLATILE ORGANIC DATA (Continued)

AREA	TAN
LOCATION	USGS-26
TYPE OF LOCATION	REGIONAL AQUIFER
SAMPLE NUMBER	USG2690001A
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	9011L778
TARGET COMPOUNDS	
Chloromethane	---
Methylene Chloride	---
Acetone	---
Carbon Disulfide	---
1,1-Dichloroethene	---
1,1-Dichloroethane	---
1,2-Dichloroethene_(total)	---
2-Butanone	---
1,1,1-Trichloroethane	---
Trichloroethene	---
Tetrachloroethene	---
Toluene	---
Dilution Factor	1.000
Total (Allowed) Hold Time	8(14)d

6-25-92

TABLE _-_-_ 1990 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	ANP-06	ANP-08	ANP-09	FET-02	IET-06
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	ANP0690001B	ANP0890001B	ANP0990001B	FET0290001B	IET0690001B
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0690001B	ANP0890001B	ANP0990001B	ANP0890001B	ANP0690001B
ANALYTES					
Aluminum	67.0 B	112 B	---	124 B	75.0 B
Antimony	8.0 BWJ	---	4.0 UNWJJ	---	5.3 BWJ
Arsenic	2.4 B	---	---	---	---
Barium	80.0 B	109 BEJ	105 B	99.0 BEJ	136 B
Beryllium	---	---	---	---	---
Cadmium	---	---	---	---	---
Calcium	46400	48200 EJ	38800	45400 EJ	56800
Chromium	---	17.0	---	---	---
Cobalt	---	---	---	---	---
Copper	17.0 B	82.0	---	19.0 B	---
Iron	177	374 U	300 NUJ	---	298
Lead	7.1	14.7	6.1 U	2.2 BU	9.1
Magnesium	17300	15700	15900	16000	15400
Manganese	---	---	10.0 BU	---	206
Mercury	0.10 BU	---	---	0.11 B	0.12 BU
Nickel	---	---	---	---	---
Potassium	1980 B	2680 B	3120 B	2100 B	3430 B
Selenium	2.0 UWJJ	---	---	2.0 UWJJ	2.0 UWJJ
Silver	---	---	---	---	---
Sodium	11600	9100	16500	8900	23200
Thallium	---	---	---	---	---
Vanadium	12.0 UUJ	---	7.0 UJ	12.0 B	13.0 BJ
Zinc	---	228	---	22.0	118
Total (Allowed) Hold Time[a]	29(180)d	40(180)d	9(180)d	40(180)d	30(180)d
Total (Allowed) Hold Time[b]	7(26)d	20(26)d	10(26)d	20(26)d	8(26)d
Total (Allowed) Hold Time[c]	29(180)d	40(180)d	9(180)d	40(180)d	30(180)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	IET-06	TAN-01	TAN-02	TAN-03	TAN-04
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	IET0690002B	TAN0190001B	TAN0290001B	TAN0390001B	TAN0490001B
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0690001B	ANP0890001B	ANP0890001B	ANP0690001B	ANP0890001B
ANALYTES					
Aluminum	---	138 B	106 B	---	90.0 B
Antimony	6.2 BWU	---	---	7.2 BWU	---
Arsenic	2.0 UW	---	2.0 UW	2.7 B	---
Barium	133 B	121 BEJ	111 BEJ	119 B	181 BEJ
Beryllium	---	---	---	---	---
Cadmium	---	---	---	---	---
Calcium	55600	51600 EJ	45600 EJ	59800	53600 EJ
Chromium	---	---	---	---	---
Cobalt	---	---	---	---	---
Copper	---	236	---	25.0	27.0
Iron	295	85.0 BU	302 U	450	483
Lead	10.0	3.2 WU	1.1 BU	4.8	3.2 U
Magnesium	15000	16900	14700	14600	16000
Manganese	200	---	33.0	11.0 B	81.0
Mercury	0.13 BU	0.12 B	0.10 B	0.19 BU	0.32
Nickel	---	---	---	---	---
Potassium	3330 B	2090 B	1880 B	2100 B	2640 B
Selenium	2.0 UWJJ	2.0 UW	---	2.0 UWJJ	2.0 UW
Silver	---	---	---	---	---
Sodium	22600	8570	7680	8400	10200
Thallium	---	---	---	---	---
Vanadium	12.0 UUJ	---	---	12.0 UUJ	---
Zinc	116	25.0	64.0	449	560
Total (Allowed) Hold Time[a]	30(180)d	40(180)d	40(180)d	27(180)d	41(180)d
Total (Allowed) Hold Time[b]	8(26)d	20(26)d	20(26)d	5(26)d	21(26)d
Total (Allowed) Hold Time[c]	30(180)d	40(180)d	40(180)d	27(180)d	41(180)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _-_-_ 1990 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-05	TAN-06	TAN-07	TAN-07	TAN-08
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN0590001B	TAN0690001B	TAN0790001B	TAN0790002B	TAN0890001B
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0890001B	ANP0690001B	ANP0690001B	ANP0690001B	TAN0890001B
ANALYTES					
Aluminum	109 B	811	116 B	171 B	---
Antimony	---	---	---	---	4.0 UWJJ
Arsenic	2.0 UW	---	---	2.0 UW	---
Barium	129 BEJ	108 B	117 B	114 B	101 B
Beryllium	---	---	---	---	---
Cadmium	---	---	---	---	---
Calcium	54600 EJ	48700	45600	48300	52600
Chromium	---	---	---	---	---
Cobalt	---	---	---	---	---
Copper	32.0	52.0	22.0 B	24.0 B	19.0 B
Iron	204 U	1680	78.0 BU	106 U	1610
Lead	15.4 S	8.3 SU	2.4 BWU	4.0 WUJ	28.4
Magnesium	15900	18000	16300	15800	13900
Manganese	---	39.0	---	---	23.0
Mercury	---	---	0.12 BU	0.11 BU	---
Nickel	---	---	---	---	15.0 B
Potassium	1930 B	3010 B	2280 B	2220 B	2470
Selenium	---	2.8 BW	2.0 UW	2.0 UW	5.0 UNR
Silver	---	---	---	---	---
Sodium	9950	10500	8630	8430	7620
Thallium	---	---	---	---	---
Vanadium	---	---	---	---	---
Zinc	244	460	194	193	406
Total (Allowed) Hold Time[a]	39(180)d	33(180)d	32(180)d	32(180)d	15(180)d
Total (Allowed) Hold Time[b]	19(26)d	13(26)d	12(26)d	12(26)d	16(26)d
Total (Allowed) Hold Time[c]	39(180)d	33(180)d	32(180)d	32(180)d	15(180)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-09	TAN-09	TAN-10A	TAN-11	TAN-12
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN0990001B	TAN0990002B	TAN10A9002B	TAN1190001B	TAN1290001B
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0690001B	ANP0690001B	ANP0890001B	ANP0890001B	ANP0890001B
ANALYTES					
Aluminum	89.0 B	126 B	178 B	123 B	1820
Antimony	6.0 BWU	6.8 BWU	---	---	---
Arsenic	---	---	2.0 UW	2.0 UW	---
Barium	286	303	238 EJ	120 BEJ	76.0 BEJ
Beryllium	---	---	---	---	---
Cadmium	---	---	---	---	---
Calcium	86800	92600	83500 EJ	47800 EJ	46400 EJ
Chromium	---	---	---	---	---
Cobalt	---	---	---	---	---
Copper	19.0 B	---	26.0	21.0 B	19.0 B
Iron	324	330	563	2300	1340
Lead	10.3	2.7 B	14.6 S	4.6 WU	5.1 WU
Magnesium	24600	26400	24300 B	20400	20000
Manganese	12.0 B	13.0 B	44.0	26.0	25.0
Mercury	---	---	---	---	---
Nickel	---	---	---	---	---
Potassium	4480 B	4680 B	3220 B	3260 B	3190 B
Selenium	---	---	2.0 UWUJ	---	---
Silver	---	---	---	---	---
Sodium	42200	45500	31600	17400	11600
Thallium	---	1.0 UWUJ	---	---	---
Vanadium	12.0 UUJ	12.0 UUJ	12.0	13.0 B	---
Zinc	526	540	341	461	248
Total (Allowed) Hold Time[a]	21(180)d	21(180)d	34(180)d	35(180)d	41(180)d
Total (Allowed) Hold Time[b]	12(26)d	12(26)d	14(26)d	15(26)d	21(26)d
Total (Allowed) Hold Time[c]	21(180)d	21(180)d	34(180)d	35(180)d	41(180)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-13A	TAN-13A	TAN-14	TAN-14	TAN-15
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN13A9001B	TAN13A9002B	TAN1490001B	TAN1490002B	TAN1590001B
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0990001B	ANP0990001B	ANP0890001B	ANP0890001B	ANP0890001B
ANALYTES					
Aluminum	92.0 B	129 B	5490	4380	110 B
Antimony	4.0 UNWJJ	4.0 UNWJJ	---	---	---
Arsenic	---	---	2.2 B	2.0 BWJ	2.0 UW
Barium	95.0 B	94.0 B	76.0 BEJ	73.0 BEJ	123 BEJ
Beryllium	---	---	---	---	---
Cadmium	---	---	---	---	---
Calcium	41100	41100	37800 EJ	37100 EJ	45800 EJ
Chromium	---	---	20.0	10.0	21.0
Cobalt	---	---	---	---	---
Copper	---	---	49.0	46.0	---
Iron	118 NUJ	119 NUJ	7530	5260	86.0 BU
Lead	1.7 BU	1.7 BU	7.9 WU	13.2 S	4.5 WU
Magnesium	10900	11000	17500	16000	17200
Manganese	15.0 U	16.0 U	115	84.0	---
Mercury	---	---	---	---	---
Nickel	---	---	36.0 B	---	---
Potassium	2180 B	2170 B	3960 B	4040 B	2630 B
Selenium	---	2.0 UW	---	2.0 UWJJ	---
Silver	---	---	---	---	---
Sodium	6830	6660	7620	7560	8270
Thallium	---	---	---	---	---
Vanadium	7.0 UJ	---	---	12.0 B	12.0 B
Zinc	654	639	142	122	173
Total (Allowed) Hold Time[a]	16(180)d	20(180)d	42(180)d	42(180)d	39(180)d
Total (Allowed) Hold Time[b]	8(26)d	12(26)d	22(26)d	22(26)d	19(26)d
Total (Allowed) Hold Time[c]	16(180)d	20(180)d	42(180)d	42(180)d	39(180)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-16	TAN-16	TAN-17	TAN DISP 1	TAN DISP 2
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN1690001B	TAN1690002B	TAN1790001B	TAND190001B	TAND290001B
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0890001B	ANP0890001B	ANP0990001B	ANP0690001B	ANP0890001B
ANALYTES					
Aluminum	161 B	155 B	14800	199 B	328
Antimony	---	---	4.0 UNWJJ	---	---
Arsenic	2.0 UWJJ	2.0 UW	4.2 B	2.0 UWJJ	2.3 BW
Barium	113 BEJ	114 BEJ	200	95.0 B	280 EJ
Beryllium	---	---	1.0 B	---	---
Cadmium	---	---	---	---	---
Calcium	48000 EJ	47200 EJ	70000	456	81800 EJ
Chromium	---	12.0	45.0	---	---
Cobalt	---	---	---	---	---
Copper	28.0	---	146	21.0 B	150
Iron	118 U	82.0 BU	7290 NJ	3200	641
Lead	3.8 WU	3.5 WU	17.7	11.3 S	515
Magnesium	16000	16300	12700	19700	23000
Manganese	---	---	95.0	35.0	66.0
Mercury	0.10 B	---	---	0.11 BU	---
Nickel	---	---	69.0	---	---
Potassium	2510 B	2400 B	5740	3870 B	4140 B
Selenium	2.0 UW	---	10.0 UWJJ	---	2.0 UW
Silver	---	---	1.2 B	---	---
Sodium	8180	7990	15600	14000	68600
Thallium	---	---	3.1 BS	---	---
Vanadium	12.0 B	---	---	---	---
Zinc	117	105	536	53.0	225
Total (Allowed) Hold Time[a]	34(180)d	34(180)d	13(180)d	33(180)d	46(180)d
Total (Allowed) Hold Time[b]	14(26)d	14(26)d	5(26)d	13(26)d	26(26)d
Total (Allowed) Hold Time[c]	34(180)d	34(180)d	13(180)d	33(180)d	46(180)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _-_-_ 1990 TAN HYDROGEOLOGIC INVESTIGATION - INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN DISP 3	GIN-2	GIN-4	USGS-24	USGS-26
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAND390001B	TANG290001B	TANG490001B	TANGS24911B	USG2690001B
MEDIA	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0690001B	ANP0990001B	ANP0990001B	TANGS24911B	ANP0690001B
ANALYTES					
Aluminum	81.0 B	146 B	507	---	---
Antimony	4.3 BWU	4.0 UNWUJ	4.0 UNWUJ	4.0 UUJ	5.2 BWUJ
Arsenic	2.1 B	---	---	2.0 B	---
Barium	105 B	183 B	183 B	220	52.0 B
Beryllium	---	---	---	---	---
Cadmium	---	---	---	---	---
Calcium	54800	63000	65000	80500	43700
Chromium	---	---	11.0 U	---	---
Cobalt	---	---	---	---	---
Copper	---	---	---	---	---
Iron	204	128 NUJ	728 NJ	123	222
Lead	5.4	43.8	1.4 BU	7.8	2.1 B
Magnesium	16000	21400 B	23600 B	18500	15800
Manganese	---	7.0 BU	18.0 U	3.0 UUJ	---
Mercury	---	0.16 BU	0.12 BU	0.12 BU	0.14 BU
Nickel	---	---	---	---	---
Potassium	2640 B	3750 B	4100 B	2860 B	2950 B
Selenium	2.0 UWUJ	2.1 BU	2.3 BWUJ	1.0 UNWUJ	10.0 UW
Silver	---	---	---	---	---
Sodium	8330	20600	17900	27000	17100
Thallium	---	2.9 B	---	---	---
Vanadium	12.0 UUJ	---	---	7.0 UUJ	12.0 UUJ
Zinc	17.0 B	---	---	---	---
Total (Allowed) Hold Time[a]	22(180)d	14(180)d	15(180)d	6(180)d	28(180)d
Total (Allowed) Hold Time[b]	13(26)d	6(26)d	7(26)d	15(26)d	6(26)d
Total (Allowed) Hold Time[c]	22(180)d	14(180)d	15(180)d	6(180)d	28(180)d

a. ICP/FAAS
b. CVAAS
c. GFAAS

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	ANP-06	ANP-08	ANP-09	FET-02	IET-06	IET-06
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	ANP0690001	ANP0890001	ANP0990001	FET0290001	IET0690001	IET0690002
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0690001B	ANP0890001B	ANP0990001B	ANP0890001B	ANP0690001B	ANP0690001B
ANALYTES						
Alkalinity	146000	142000	122000	142000	164000	160000
Chloride	10800	10700	10700	15000	23500	23700
Fluoride	370	340	500	370	330	320
Nitrate	668	853	673	735	315	350
Sulfate	22000	25000	1600000	26000	22000	22000
Total (Allowed) Hold Time						
Alkalinity	13(14)d	13(14)d	14(14)d	13(14)d	14(14)d	14(14)d
Chloride	13(28)d	6(28)d	10(28)d	6(28)d	14(28)d	14(28)d
Fluoride	7(28)d	20(28)d	23(28)d	20(28)d	8(28)d	8(28)d
Nitrate	14(28)d	14(28)d	10(28)d	14(28)d	15(28)d	15(28)d
Sulfate	11(28)d	13(28)d	15(28)d	13(28)d	12(28)d	12(28)d

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-01	TAN-02	TAN-03	TAN-03	TAN-04	TAN-05
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN0190001	TAN0290001	TAN0390001	TAN0390EQ1	TAN0490001	TAN0590001
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0890001B	ANP0890001B	ANP0690001B	ANP0690001B	ANP0890001B	ANP0890001B
ANALYTES						
Alkalinity	144000	143000	160000	---	152000	149000
Chloride	26100	11500	11400	276	26900	29500
Fluoride	330	330	330	130	330	310
Nitrate	1520	877	832	---	1700	998
Sulfate	26000	26000	21000	---	19000	23000
Total (Allowed) Hold Time						
Alkalinity	13(14)d	13(14)d	11(14)d	11(14)d	13(14)d	12(14)d
Chloride	6(28)d	6(28)d	15(28)d	15(28)d	6(28)d	5(28)d
Fluoride	20(28)d	20(28)d	5(28)d	5(28)d	20(28)d	19(28)d
Nitrate	14(28)d	14(28)d	18(28)d	18(28)d	14(28)d	13(28)d
Sulfate	13(28)d	13(28)d	13(28)d	13(28)d	13(28)d	12(28)d

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-06	TAN-07	TAN-07	TAN-08	TAN-09	TAN-09
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN0690001	TAN0790001	TAN0790002	TAN0890001	TAN0990001	TAN0990002
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP06900018	ANP06900018	ANP06900018	TAN0890001	ANP06900018	ANP06900018
ANALYTES						
Alkalinity	148000	145000	146000	122000	192000	194000
Chloride	7460	11300	11200	35700	128000	128000
Fluoride	370	310	320	250	300	280
Nitrate	574	909	928	706	1550	1560
Sulfate	22000	23000	26000	19000	34000	30000
Total (Allowed) Hold Time						
Alkalinity	6(14)d	5(14)d	5(14)d	13(14)d	5(14)d	5(14)d
Chloride	9(28)d	8(28)d	8(28)d	16(28)d	21(28)d	21(28)d
Fluoride	13(28)d	12(28)d	12(28)d	20(28)d	23(28)d	23(28)d
Nitrate	7(28)d	6(28)d	6(28)d	8(28)d	12(28)d	12(28)d
Sulfate	6(28)d	5(28)d	5(28)d	21(28)d	15(28)d	15(28)d

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-10A	TAN-11	TAN-12	TAN-13A	TAN-13A	TAN-14
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN10A9002	TAN1190001	TAN1290001	TAN13A9001	TAN13A9002	TAN1490001
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0890001B	ANP0890001B	ANP0890001B	ANP0990001B	ANP0990001B	ANP0890001B
ANALYTES						
Alkalinity	183000	134000	130000	118000	124000	118000
Chloride	89800	36500	44200	2790	2750	3130
Fluoride	320	310	340	300	320	350
Nitrate	1550	782	779	314	318	713
Sulfate	26000	23000	19000	5000	5000	11000
Total (Allowed) Hold Time						
Alkalinity	7(14)d	14(14)d	13(14)d	10(14)d	10(14)d	14(14)d
Chloride	10(28)d	10(28)d	9(28)d	17(28)d	17(28)d	10(28)d
Fluoride	14(28)d	23(28)d	21(28)d	11(28)d	11(28)d	22(28)d
Nitrate	8(28)d	10(28)d	15(28)d	17(28)d	17(28)d	16(28)d
Sulfate	7(28)d	15(28)d	14(28)d	3(28)d	3(28)d	15(28)d

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN-14	TAN	TAN-16	TAN-16	TAN-17	TAN DISP 1
TYPE OF LOCATION	REGIONAL AQUIFER	COMPOSITE	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAN1490002	TAN1590001	TAN1690001	TAN1690002	TAN1790001	TAND190001
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0890001B	ANP0890001B	ANP0890001B	ANP0890001B	ANP0990001B	ANP0690001B
ANALYTES						
Alkalinity	118000	139000	140000	140000	120000	119000
Chloride	3480	19700	17600	17700	4940	49800
Fluoride	370	320	320	320	320	270
Nitrate	745	1040	1020	1020	486	582
Sulfate	18000	28000	28000	26000	15000	26000
Total (Allowed) Hold Time						
Alkalinity	14(14)d	12(14)d	7(14)d	7(14)d	8(14)d	6(14)d
Chloride	10(28)d	7(28)d	10(28)d	10(28)d	15(28)d	9(28)d
Fluoride	22(28)d	19(28)d	14(28)d	14(28)d	9(28)d	13(28)d
Nitrate	16(28)d	13(28)d	8(28)d	8(28)d	15(28)d	7(28)d
Sulfate	15(28)d	12(28)d	7(28)d	7(28)d	20(28)d	6(28)d

TABLE _._._ 1990 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA (Continued)

AREA	TAN	TAN	TAN	TAN	TAN	TAN
LOCATION	TAN DISP 2	TAN DISP 3	TAN DISP 3	GIN-2	GIN-4	USGS-24
TYPE OF LOCATION	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER	REGIONAL AQUIFER
SAMPLE NUMBER	TAND290001	TAND390001	TAND390EQ2	TANG290001	TANG490001	TANGS24911
MEDIA	WATER	WATER	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SDG NUMBER	ANP0890001B	ANP0690001B	ANP0690001B	ANP0990001B	ANP0990001B	TANGS24911
ANALYTES						
Alkalinity	221000	154000	24000	156000	130000	174000
Chloride	140000	13000	244	76700	65100	71400
Fluoride	240	310	100	310	310	230
Nitrate	2860	841	---	1300	1340	1820
Sulfate	32000	32000	---	40000	26000	36000
Total (Allowed) Hold Time						
Alkalinity	6(14)d	6(14)d	6(14)d	8(14)d	9(14)d	9(14)d
Chloride	12(28)d	22(28)d	22(28)d	15(28)d	16(28)d	13(28)d
Fluoride	26(28)d	24(28)d	24(28)d	9(28)d	10(28)d	5(28)d
Nitrate	7(28)d	13(28)d	13(28)d	15(28)d	16(28)d	19(28)d
Sulfate	19(28)d	16(28)d	16(28)d	20(28)d	14(28)d	6(28)d

TABLE _-_-_ 1990 TAN HYDROGEOLOGIC INVESTIGATION - NON-METAL INORGANIC DATA (Continued)

AREA	TAN
LOCATION	USGS-26
TYPE OF LOCATION	REGIONAL AQUIFER
SAMPLE NUMBER	USG2690001
MEDIA	WATER
UNITS	ug/L
SDG NUMBER	ANP0690001B
ANALYTES	
Alkalinity	142000
Chloride	13100
Fluoride	610
Nitrate	767
Sulfate	22000
Total (Allowed) Hold Time	
Alkalinity	12(14)d
Chloride	20(28)d
Fluoride	6(28)d
Nitrate	19(28)d
Sulfate	22(28)d

DATA QUALIFIER DEFINITIONS

Radiological Data Qualifier Flags (DQF)

No Flag - The associated sample result is a true positive result and is considered valid and usable.

J - The associated sample result is an estimated quantity due to quality control or documentation problems. These results should be treated as estimates only. Absolute quantitative or risk assessments should not be made from results flagged with a "J," but these results can be used for yes/no decisions as to whether a contaminant is present at the sampling location.

U - The constituent of interest was analyzed for, but was not detected above the minimum detectable activity of the instrumentation. There may or may not be a result provided in the data package. If no result is provided a "zero" result should not be entered in its place as the zero may be mistakenly included in statistical calculations performed from the sample results.

R - The sample result is not to be used for any purpose.

Radiological Analytical Support Level (ASL)

Level 4 - Level 4 analytical data is defined as sample results that come from an Environmental Restoration Program Sample Management Office approved laboratory and have complete supporting quality control information. Level 4 sample results can be used for any required purpose including; quantification of activity levels, determination of the extent of radioactive contamination, development of remedial actions, and risk assessment calculations. Level 4 is used when comprehensive data quality documentation is required.

TABLE . . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR GAMMA-EMITTING RADIONUCLIDES

Date: 02/01/91

Lab Name: RML

Case No.:

Report No.: STPHY91001

SDG No.: STPHY91001

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
ANP0690001G	A5110690038	WATER	GAMMA	ND		pCi/gm	11/06/90	11/06/90	540.0000		RML A5	U	4
ANP0890001G	C5102490039	WATER	GAMMA	ND		pCi/gm	10/24/90	10/24/90	540.0000		RML C5	U	4
ANP0990001G	A5120390043	WATER	GAMMA	ND		pCi/gm	12/03/90	12/03/90	540.0000		RML A5	U	4
FET0290001G	A6102990041	WATER	GAMMA	ND		pCi/gm	10/29/90	10/24/90	530.0000		RML A6	U	4
IET0690001G	A6110990090	WATER	GAMMA	ND		pCi/gm	11/09/90	11/05/90	540.0000		RML A6	U	4
IET0690002G	A6110690039	WATER	GAMMA	ND		pCi/gm	11/06/90	11/06/90	540.0000		RML A6	U	4
TAN0190001G	A5102990040	WATER	GAMMA	ND		pCi/gm	10/29/90	10/24/90	530.0000		RML A5	U	4
TAN0290001G	A5102690033	WATER	GAMMA	ND		pCi/gm	10/26/90	10/24/90	530.0000		RML A5	U	4
TAN0390001G	A5110990029	WATER	GAMMA	ND		pCi/gm	11/09/90	11/08/90	540.0000		RML A5	U	4
TAN0390EQ1G	A5110890036	WATER	GAMMA	ND		pCi/gm	11/08/90	11/08/90	540.0000		RML A5	U	4
TAN0490001G	C5110290030	WATER	GAMMA	ND		pCi/gm	11/02/90	10/23/90	530.0000		RML C5	U	4
TAN0590001G	A5102590044	WATER	GAMMA	ND		pCi/gm	10/25/90	10/25/90	540.0000		RML A5	U	4
TAN0690001G	A6110190021	WATER	GAMMA	ND		pCi/gm	11/01/90	10/31/90	520.0000		RML A6	U	4

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR GAMMA-EMITTING RADIONUCLIDES

Date: 02/01/91

Lab Name: RML

Case No.:

Report No.: STPHY91001

SDG No.: STPHY91001

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0790001G	A5110290028	WATER	GAMMA	ND		pCi/gm	11/02/90	11/01/90	540.0000		RML A5	U	4
TAN0790002G	A6110290029	WATER	GAMMA	ND		pCi/gm	11/02/90	11/01/90	540.0000		RML A6	U	4
TAN0890001G	A6121890033	WATER	GAMMA	ND		pCi/gm	12/18/90	12/18/90	540.0000		RML A6	U	4
TAN0990001G	A6111590049	WATER	GAMMA	ND		pCi/gm	11/15/90	11/14/90	540.0000		RML A6	U	4
TAN0990002G	C5111590050	WATER	GAMMA	ND		pCi/gm	11/15/90	11/14/90	540.0000		RML C5	U	4
TAN10A9002G	A5103090043	WATER	GAMMA	ND		pCi/gm	10/30/90	10/29/90	540.0000		RML A5	U	4
TAN1190001G	C5103190024	WATER	GAMMA	ND		pCi/gm	10/31/90	10/29/90	540.0000		RML C5	U	4
TAN1290001G	A6102590046	WATER	GAMMA	ND		pCi/gm	10/25/90	10/23/90	540.0000		RML A6	U	4
TAN13A9001G	A5112790046	WATER	GAMMA	ND		pCi/gm	11/27/90	11/26/90	540.0000		RML A5	U	4
TAN13A9002G	A6112790047	WATER	GAMMA	ND		pCi/gm	11/27/90	11/26/90	540.0000		RML A6	U	4
TAN1490001G	A6102690034	WATER	GAMMA	ND		pCi/gm	10/26/90	10/22/90	540.0000		RML A6	U	4
TAN1490002G	C5102990043	WATER	GAMMA	ND		pCi/gm	10/29/90	10/22/90	530.0000		RML C5	U	4
TAN1590001G	C5102590045	WATER	GAMMA	ND		pCi/gm	10/25/90	10/25/90	540.0000		RML C5	U	4

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR GAMMA-EMITTING RADIONUCLIDES

Date: 02/01/91

Lab Name: RML

Case No.:

Report No.: STPHY91001

SDG No.: STPHY91001

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN1690001G	C5103090045	WATER	GAMMA	ND		pCi/gm	10/30/90	10/30/90	540.0000		RML C5	U	4
TAN1690002G	A6103090044	WATER	GAMMA	ND		pCi/gm	10/30/90	10/30/90	540.0000		RML A6	U	4
TAN1790001G	A5113090046	WATER	GAMMA	ND		pCi/gm	11/30/90	11/29/90	530.0000		RML A5	U	4
TAND190001G	A5110190020	WATER	GAMMA	ND		pCi/gm	11/01/90	10/31/90	540.0000		RML A5	U	4
TAND290001G	A5101890036	WATER	GAMMA	ND		pCi/gm	10/18/90	10/18/90	540.0000		RML A5	U	4
TAND390001G	A6111690042	WATER	GAMMA	ND		pCi/gm	11/16/90	11/13/90	540.0000		RML A6	U	4
TAND390EQ2G	A5111590048	WATER	GAMMA	ND		pCi/gm	11/15/90	11/13/90	540.0000		RML A5	U	4
TANDRL90002G	C5111990030	WATER	GAMMA	ND		pCi/gm	11/19/90	11/19/90	540.0000		RML C5	U	4
TANFB90001G	A6110890037	WATER	GAMMA	ND		pCi/gm	11/08/90	11/08/90	540.0000		RML A6	U	4
TANG290001G	A5112890040	WATER	GAMMA	ND		pCi/gm	11/28/90	11/28/90	540.0000		RML A5	U	4
TANG490001G	C5112790050	WATER	GAMMA	ND		pCi/gm	11/27/90	11/27/90	540.0000		RML C5	U	4
TANGS24911G	A5010391044	WATER	GAMMA	ND		pCi/gm	01/03/91	01/02/91	540.0000		RML A5	U	4
USG2690001G	A5110790022	WATER	GAMMA	ND		pCi/gm	11/07/90	11/07/90	540.0000		RML A5	U	4

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR GAMMA-EMITTING RADIONUCLIDES

Date: 02/01/91

Lab Name: RML

Case No.:

Report No.: STPHY91001

SDG No.: STPHY91001

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN06C9101D	D3010891034	WATER	GAMMA	ND		pCi/gm	01/08/91	01/03/91	892.0000		RML D3	U	4
TAN07C9101D	D3010891030	WATER	GAMMA	ND		pCi/gm	01/08/91	01/03/90	795.0000		RML D3	U	4
TAN12C9101D	D3010891025	WATER	GAMMA	ND		pCi/gm	01/08/91	01/03/91	700.0000		RML D3	U	4
TAN13AC911D	D2010891033	WATER	GAMMA	ND		pCi/gm	01/08/91	01/03/91	778.0000		RML D2	U	4
TAN13C9101D	A6010891032	WATER	GAMMA	ND		pCi/gm	01/08/91	01/03/91	805.0000		RML A6	U	4
TAN14C9101D	A5010891022	WATER	CS-137	6.18E-01	.62E-01	pCi/gm	01/08/91	01/03/91	581.0000		RML A5		4
TAN14C9102D	A5010891031	WATER	CS-137	3.47E-01	.51E-01	pCi/gm	01/08/91	01/03/91	730.0000		RML A5		4
TAN1516911D	D2010891024	WATER	GAMMA	ND		pCi/gm	01/08/91	01/03/91	603.0000		RML D2	U	4
TAN17C9101D	A6010891023	WATER	CS-137	1.79E+00	.14E+00	pCi/gm	01/08/91	01/03/91	633.0000		RML A6		4

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR TRITIUM

Date: 02/14/92

Lab Name: RML

Case No.:

Report No.: STPHY92012

SDG No.: STPHY92012

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0390EQ1F	1	WATER	H3	-1.3E-1	0.9E-1	pCi/mL	11/15/90	11/08/90	10.0000			U	4
TANFB90001F	2	WATER	H3	-5E-2	7E-2	pCi/mL	11/15/90	11/08/90	10.0000			U	4
TAND290001F	3	WATER	H3	3.1E+0	0.3E+0	pCi/mL	11/15/90	10/18/90	10.0000				4
TAN0390001F	4	WATER	H3	9E-2	8E-2	pCi/mL	11/15/90	11/08/90	10.0000			U	4
TAN0490001F	5	WATER	H3	1.0E+0	0.2E+0	pCi/mL	11/15/90	10/23/90	10.0000				4
TAN1290001F	6	WATER	H3	1.8E+0	0.3E+0	pCi/mL	11/15/90	10/23/90	10.0000				4
TAN1490002F	7	WATER	H3	-5E-2	7E-2	pCi/mL	11/15/90	10/22/90	10.0000			U	4
TAN1590001F	8	WATER	H3	3.3E-1	1.0E-1	pCi/mL	11/15/90	10/25/90	10.0000			J	4
TAN10A9002F	9	WATER	H3	3.6E+0	0.4E+0	pCi/mL	11/27/90	10/30/90	10.0000				4
TAND190001F	10	WATER	H3	1.9E+0	0.3E+0	pCi/mL	11/27/90	10/31/90	10.0000				4
TAN0790002F	11	WATER	H3	-1.1E+0	0.7E+0	pCi/mL	11/27/90	11/01/90	10.0000			U	4
TAN1690001F	12	WATER	H3	3.2E-1	0.9E-01	pCi/mL	11/27/90	10/30/90	10.0000			J	4
ANP0690001F	13	WATER	H3	-9E-2	7E-2	pCi/mL	11/27/90	11/06/90	10.0000			U	4

3-24-92

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR TRITIUM

Date: 02/14/92

Lab Name: RML

Case No.:

Report No.: STPHY92012

SDG No.: STPHY92012

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
ANP0890001F	14	WATER	H3	0E-2	6E-2	pCi/mL	11/27/90	10/24/90	10.0000			U	4
IET0690001F	15	WATER	H3	-1.2E-1	0.8E-1	pCi/mL	11/27/90	11/05/90	10.0000			U	4
USG2690001F	16	WATER	H3	-1.3E-1	0.8E-1	pCi/mL	11/27/90	11/07/90	10.0000			U	4
TAN0190001F	17	WATER	H3	2.4E-1	1.1E-1	pCi/mL	12/14/90	10/24/90	10.0000			J	4
TANG290001F	18	WATER	H3	-2.1E-1	1.0E-1	pCi/mL	12/14/90	11/28/90	10.0000			U	4
TAND390EQ2F	19	WATER	H3	-3E-2	8E-2	pCi/mL	12/14/90	11/13/90	10.0000			U	4
FET0290001F	20	WATER	H3	-2.2E-1	1.0E-1	pCi/mL	12/14/90	10/24/90	10.0000			U	4
TAN13A9002F	21	WATER	H3	-3E-2	8E-2	pCi/mL	12/14/90	11/26/90	10.0000			U	4
TAND390001F	22	WATER	H3	1.3E-1	0.8E-1	pCi/mL	12/14/90	11/13/90	10.0000			U	4
TAN0790001F	23	WATER	H3	1.5E-1	0.8E-1	pCi/mL	12/14/90	11/01/90	10.0000			U	4
TAN0990002F	24	WATER	H3	6.7E+0	0.6E+0	pCi/mL	12/14/90	11/14/90	10.0000				4
TAN0290001F	25	WATER	H3	-1.3E-1	1.9E-1	pCi/mL	01/11/91	10/24/90	10.0000			U	4
TAN0590001F	26	WATER	H3	1.1E+0	0.3E+0	pCi/mL	01/11/91	10/25/90	10.0000				4

3-24-92

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR TRITIUM

Date: 02/14/92

Lab Name: RML

Case No.:

Report No.: STPHY92012

SDG No.: STPHY92012

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0990001F	27	WATER	H3	6.9E+0	0.9E+0	pCi/mL	01/11/91	11/14/90	10.0000				4
TAN1690002F	28	WATER	H3	2.3E-1	1.3E-1	pCi/mL	01/11/91	10/30/90	10.0000			U	4
TAN1790001F	29	WATER	H3	-1.6E-1	1.5E-1	pCi/mL	01/11/91	11/29/90	10.0000			U	4
TAN1490001F	30	WATER	H3	-7E-2	9E-2	pCi/mL	01/11/91	10/22/90	10.0000			U	4
TAN13A9001F	31	WATER	H3	-3E-1	2E-1	pCi/mL	01/11/91	11/26/90	10.0000			U	4
TAN0990001F	32	WATER	H3	-1.9E-1	1.8E-1	pCi/mL	01/11/91	12/03/90	10.0000			U	4
TANG490001F	33	WATER	H3	-3.3E-1	1.8E-1	pCi/mL	01/11/91	11/27/90	10.0000			U	4
TAN0690001F	34	WATER	H3	-3E-1	2E-1	pCi/mL	01/11/91	10/31/90	10.0000			U	4
TAN0690002F	35	WATER	H3	-3.0E-1	1.7E-1	pCi/mL	01/11/91	/ /	10.0000			U	4
TAN0890001F	36	WATER	H3	-4E-1	2E-1	pCi/mL	01/11/91	12/18/90	10.0000			U	4
TAN1190001F	37	WATER	H3	3.3E+0	0.7E+0	pCi/mL	01/11/91	10/29/90	10.0000				4
TANGS24911F	38	WATER	H3	8.3E+0	1.1E+0	pCi/mL	01/11/91	01/02/91	10.0000				4

3-24-92

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR STRONTIUM-90

Date: 02/14/92

Lab Name: RML

Case No.:

Report No.: STPHY92012

SDG No.: STPHY92012

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0390EQ1H	1	WATER	SR-90	3.1E-3	1.6E-3	pCi/mL	11/28/90	11/08/90	250.0000	30.4		U	4
TANFB90001H	2	WATER	SR-90	8.0E-3	1.9E-3	pCi/mL	11/28/90	11/08/90	250.000	27.7			4
TAND290001H	3	WATER	SR-90	2.9E-2	0.2E-2	pCi/mL	01/02/91	10/18/90	250.0000	74.2			4
TAN0390001H	4	WATER	SR-90	0.9E-3	1.3E-3	pCi/mL	11/28/90	11/08/90	250.0000	36.4		U	4
TAN0490001H	5	WATER	SR-90	1.8E-3	1.2E-3	pCi/mL	11/28/90	10/23/90	250.0000	39.4		U	4
TAN1290001H	6	WATER	SR-90	0.7E-4	1.2E-4	pCi/mL	11/28/90	10/23/90	250.0000	40.3		U	4
TAN1490002H	7	WATER	SR-90	-1.9E-3	1.1E-3	pCi/mL	11/28/90	10/22/90	250.0000	41.4		U	4
TAN1590001H	8	WATER	SR-90	-2.8E-3	1.3E-3	pCi/mL	12/07/90	10/25/90	250.0000	37.1		U	4
TAN10A9002H	9	WATER	SR-90	4.7E-1	0.3E-1	pCi/mL	01/07/91	10/30/90	250.0000	80.9			4
TAND190001H	10	WATER	SR-90	-2.5E-3	1.0E-3	pCi/mL	12/07/90	10/31/90	250.0000	45.0		U	4
TAN0790002H	11	WATER	SR-90	-1.7E-3	0.8E-3	pCi/mL	12/07/90	11/01/90	250.0000	62.5		U	4
TAN1690001H	12	WATER	SR-90	2E-4	8E-4	pCi/mL	12/10/90	10/30/90	250.0000	61.5		U	4
ANP0690001H	13	WATER	SR-90	1.6E-3	0.7E-3	pCi/mL	12/10/90	11/06/90	250.0000	67.1			4

3-24-92

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR STRONTIUM-90

Date: 02/14/92

Lab Name: RML

Case No.:

Report No.: STPHY92012

SDG No.: STPHY92012

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
ANP0890001H	14	WATER	SR-90	0.9E-4	1.0E-4	pCi/mL	12/10/90	10/24/90	250.0000	47.5		U	4
IET0690001H	15	WATER	SR-90	-1.5E-3	0.7E-3	pCi/mL	12/10/90	11/05/90	250.0000	63.9		U	4
USG2690001H	16	WATER	SR-90	-2.1E-3	0.8E-3	pCi/mL	12/12/90	11/07/90	250.0000	57.3		U	4
TAN0190001H	17	WATER	SR-90	1.8E-3	0.8E-3	pCi/mL	12/12/90	10/24/90	250.0000	64.3			4
TANG290001H	18	WATER	SR-90	-3.6E-3	1.0E-3	pCi/mL	12/12/90	11/28/90	250.0000	52.2		U	4
TAND390EQ2H	19	WATER	SR-90	-3.7E-3	0.7E-3	pCi/mL	12/12/90	11/13/90	250.0000	70.8		U	4
FET0290001H	20	WATER	SR-90	-2.2E-3	0.7E-3	pCi/mL	12/12/90	10/24/90	250.0000	71.7		U	4
TAN13A9002H	21	WATER	SR-90	-5E-4	7E-4	pCi/mL	12/12/90	11/26/90	250.0000	68.5		U	4
TAND390001H	22	WATER	SR-90	-3.0E-3	0.7E-3	pCi/mL	12/12/90	11/13/90	250.0000	72.8		U	4
TAN0790001H	23	WATER	SR-90	1.3E-3	0.6E-E	pCi/mL	12/12/90	11/01/90	250.0000	83.2			4
TAN0990002H	24	WATER	SR-90	6.9E-3	0.7E-3	pCi/mL	12/12/90	11/14/90	250.0000	87.8			4
TAN0290001H	25	WATER	SR-90	1.20E-2	0.12E-2	pCi/mL	12/28/90	10/24/90	250.0000	62.4		R	4
TAN0590001H	26	WATER	SR-90	6.2E-3	0.9E-3	pCi/mL	12/28/90	10/25/90	250.0000	71.0			4

4-1-92

TABLE . . 1990 TAN HYDROGEOLOGIC INVESTIGATION - ANALYSIS RESULTS FOR STRONTIUM-90

Date: 02/14/92

Lab Name: RML

Case No.:

Report No.: STPHY92012

SDG No.: STPHY92012

Field Sample No.	Lab Sample ID	Sample Matrix	Anal Type	Sample Value	Sample Error	Units	Anal Date	Sample Date	Sample Size	Yield	Detector ID	DQF	ASL
TAN0990001H	27	WATER	SR-90	1.59E-2	0.13E-2	pCi/mL	12/28/90	11/14/90	250.0000	73.4			4
TAN1690002H	28	WATER	SR-90	1.32E-2	0.12E-2	pCi/mL	12/28/90	10/30/90	250.0000	69.4			4
TAN1790001H	29	WATER	SR-90	2.0E-2	0.3E-2	pCi/mL	01/14/91	11/29/90	250.0000	61.9			4
TAN1490001H	30	WATER	SR-90	4.7E-3	0.7E-3	pCi/mL	12/28/90	10/22/90	250.0000	82.5			4
TAN13A9001H	31	WATER	SR-90	2.0E-3	0.6E-3	pCi/mL	01/02/91	11/26/90	250.0000	82.5			4
TAN0990001N	32	WATER	SR-90	2.72E-2	0.18E-2	pCi/mL	01/02/91	12/03/90	250.0000	76.1			4
TANG490001H	33	WATER	SR-90	-9E-4	7E-4	pCi/mL	01/14/91	11/27/90	250.0000	69.0		U	4
TAN0690001H	34	WATER	SR-90	1.30E-2	0.11E-2	pCi/mL	01/11/91	10/31/90	250.0000	73.8			4
TAN0690002H	35	WATER	SR-90	1.19E-2	0.10E-2	pCi/mL	01/11/91	/ /	250.0000	74.7			4
TAN0890001H	36	WATER	SR-90	1.03E-2	0.10E-2	pCi/mL	01/11/91	12/18/90	250.0000	74.9			4
TAN1190001H	37	WATER	SR-90	3.0E-3	0.6E-3	pCi/mL	01/11/91	10/29/90	250.0000	83.9			4
TANGS24911H	38	WATER	SR-90	1.08E-2	0.13E-2	pCi/mL	02/06/91	01/02/91	250.0000	49.2			4

3-24-92