ER/WM&I DDT

RFCA Milestone

Source/Driver: (Name & Number from ISP, IAG milestone, Mgmt. Action, Corres. Control, etc.)

Closure #: (Outgoing Correspondence Control #, if applicable)

Due Date

A. M. Tyson AT
Originator Name

G. D. DiGregorio
QA Approval

A. M. Tyson AT
Contractor Manager(s)

Ann Sieben
Kaiser-Hill Program Manager(s)

T. G. Hedahl
Kaiser-Hill Director

Document Subject: 4/14/97

PROPOSED CESSATION OF EXCAVATION AT THE MOUND SITE - AMT-040-97

Discussion/Issues:

As we discussed with you on April 10, 1997, we proposed the cessation of excavation at the Mound Site. Following the collection of 14 samples from the bottom of the Mound excavation on Tuesday, the analytical results showed two outlying samples. Both of these samples were collected west of the center of the pit base. The sample results, as attached, were 12 ppm and 78 ppm (estimated) tetrachloroethylene. The RFCA Tier I action levels for this analyte is 11.5 ppm. The second sample was re-analyzed to obtain a concentration within the instruments linear range. The new result is 86 ppm tetrachloroethylene.

With the majority of the source removed, and the excavation reaching depths beyond the limitations of the current excavation plan, we agreed to terminate the source removal based on the following decisions:

1. The limits as proposed in the PAM have been met. Section 3.2.1 of the PAM references the limiting condition being the excavation of the top 2-3 feet of the highly weathered bedrock. In the field, bedrock was encountered at a depth of 12 feet. The current excavation has gone 5 feet into bedrock, reaching a total depth of 17 feet.

2. To continue excavation into the groundwater zone, a different excavation approach will have to be employed such as benching or shoring. The excavation is currently sloughing on the south side into the base of the hole; and the stability of the excavation is becoming uncertain. As a result, the RFETS team is concerned with the safety aspects of continuing to g into this excavation. Alternative approaches to excavation will result in considerable change in the current scope of the project. Benching the excavation will be necessary since the hydraulic excavator has reached its limitations of its hydraulic reach in removing any more material at depths greater than 17 feet. Benching will result in large volumes of material being removed to achieve the necessary angle of safety.

ADMIN RECORD
~~I113-A-00001~~

I113-A-000001

3. The groundwater has been determined by sampling wells in the vicinity at 15.4 feet. Therefore, the excavation is at depths below the groundwater table. The excavation is not filling up with groundwater; and this is assumed to be due to the tight pore spaces and the low permeability of the moderately weathered claystone bedrock. The soil is, however, damp and "moist."

4. The highest original concentration of tetrachloroethylene detected at the Mound site was 760 ppm, reference Section 2.3.2 of the PAM. With the removal of approximately 700 yards of soils, the primary source has been excavated and removed. The soils are currently staged for onsite thermal desorption treatment. Any remaining volatile organics remaining in the groundwater should be treated through the passive groundwater treatment system being designed and installed this fiscal year for seep SW059, the Mound plume.

Based on the agreed negotiation with the DOE and the agencies, RMRS is proceeding with the demobilization and decontamination of the equipment and ancillary supplies associated with the excavation portion of the project. We are currently in discussions with the thermal desorption subcontractor to resolve questions regarding their proposal and hope to award a contract imminently.

April 14, 1997

John Rampe
Kaiser Hill Company, L. L. C.
Rocky Flats Environmental Technology Site

PROPOSED CESSATION OF EXCAVATION AT THE MOUND SITE - AKS-000-97

As we discussed with you on April 10, 1997, we proposed the cessation of excavation at the Mound Site. Following the collection of 14 samples from the bottom of the Mound excavation on Tuesday, the analytical results showed two outlying samples. Both of these samples were collected west of the center of the pit base. The sample results, as attached, were 12 ppm and 78 ppm (estimated) tetrachloroethylene. The RFCA Tier I action levels for this analyte is 11.5 ppm. The second sample was re-analyzed to obtain a concentration within the instruments linear range. The new result is 86 ppm tetrachloroethylene.

With the majority of the source removed, and the excavation reaching depths beyond the limitations of the current excavation plan, we agreed to terminate the source removal based on the following decisions:

1. The limits as proposed in the PAM have been met. Section 3.2.1 of the PAM references the limiting condition being the excavation of the top 2-3 feet of the highly weathered bedrock. In the field, bedrock was encountered at a depth of 12 feet. The current excavation has gone 5 feet into bedrock, reaching a total depth of 17 feet.

2. To continue excavation into the groundwater zone, a different excavation approach will have to be employed such as benching or shoring. The excavation is currently sloughing on the south side into the base of the hole; and the stability of the excavation is becoming uncertain. As a result, the RFETS team is concerned with the safety aspects of continuing to dig into this excavation. Alternative approaches to excavation will result in considerable change in the current scope of the project. Benching the excavation will be necessary since the hydraulic excavator has reached its limitations of its hydraulic reach in removing any more material at depths greater than 17 feet. Benching will result in large volumes of material being removed to achieve the necessary angle of safety.

3. The groundwater has been determined by sampling wells in the vicinity at 15.4 feet. Therefore, the excavation is at depths below the groundwater table. The excavation is not filling up with groundwater; and this is assumed to be due to the tight pore spaces and the low permeability of the moderately weathered claystone bedrock. The soil is, however, damp and "moist."

4. The highest original concentration of tetrachloroethylene detected at the Mound site was 760 ppm, reference Section 2.3.2 of the PAM. With the removal of approximately 700 yards of soils, the primary source has been excavated and removed. The soils are currently staged for onsite thermal desorption treatment. Any remaining volatile organics remaining in the groundwater should be treated through the

passive groundwater treatment system being designed and installed this fiscal year for seep SW059, the Mound plume.

Based on the agreed negotiation with the DOE and the agencies, RMRS is proceeding with the demobilization and decontamination of the equipment and ancillary supplies associated with the excavation portion of the project. We are currently in discussions with the thermal desorption subcontractor to resolve questions regarding their proposal and hope to award a contract imminently.

Ann K. Sieben
Kaiser Hill, L. L. C

FORM I
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS01

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: LCS01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8892

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-35-4	1,1-Dichloroethene	5400	
71-43-2	Benzene	6300	
79-01-6	Trichloroethene	5600	
108-88-3	Toluene	5800	
108-90-7	Chlorobenzene	6000	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLK01

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: VBLK01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8891

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (uL

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	620	U
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

APR- 9-97 WED 16:07 BLDG 881 ROOM 212 FAX NO. 303 966 3400
APR 9'97 15:57 FR TO 8663400

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: VBLK01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8891

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00013RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436 passed 4/9/97

Matrix: (soil/water) SOIL Lab Sample ID: 54543-01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8894

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	620	U
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

APR- 9-97 WED 16:08 BLDG 881 ROOM 212 FAX NO. 303 966 3400

APR 9'97 15:58 FR TO 9663400

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KB00013RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8894

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (uL

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00013RMMS

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-01MS

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8895

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	4800	
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	6100	
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	5800	
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	6100	
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	620	U
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	5900	
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00013RMMSD

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-01SD

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8896

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(ul)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	5000	
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	6300	
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	6000	
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	6500	
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	620	U
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	6500	
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

APR- 9-97 WED 16:09 BLDG 881 ROOM 212 FAX NO. 303 966 3400
APR 8'97 15:59 FR TO 9663400

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00014RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436 passed 4/9/97

Matrix: (soil/water) SOIL Lab Sample ID: 54543-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8897

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	2500	U
108-10-1	4-Methyl-2-pentanone	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	2500	U
591-78-6	2-Hexanone	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene		

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00014RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8897

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (u

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

RB00015RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436 passed #5 4/9/97

Matrix: (soil/water) SOIL Lab Sample ID: 54543-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8898

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	740	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

APR- 9-97 WED 16:11 BLDG 881 ROOM 212 FAX NO. 303 966 3400
APR 9'97 16:00 FR TO 8663400

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00015RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8898

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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APR- 9-97 WED 16:11 BLDG 881 ROOM 212 FAX NO. 303 966 3400
APR 9'97 16:01 FR TO 9663400

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00016RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8899

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

passed 4/9/97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	1100	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00016RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-04

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8899

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(ul

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00017RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-05 passed 4/9/97

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8900

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(u

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	1600	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KB00017RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-05

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8900

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____ (

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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APR- 9-97 WED 16:13 BLDG 881 ROOM 212 FAX NO. 303 966 3400
APR 9'97 18:04 FR TO 9663400

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00018RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-06 passed # 4/9/97

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8901

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____ (ul)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	1100	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00018RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-06

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8901

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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APR- 9-97 WED 16:13 BLDG 881 ROOM 212 FAX NO. 303 966 3400
APR 9'97 16:05 FR TO 9663400

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
EB00019RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-07 FAILED # 4/9/97

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8902

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____ (ml)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	160	J
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	12000	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00019RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-07

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8902

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(ul)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00020RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-08

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8903

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL)

passed 4/9/97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	280	J
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	6800	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00020RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-08

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8903

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (ml)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BB0002LRM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-09 passed 4/9/97

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8904

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (ml)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	680	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00021RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-09

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8904

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

KB00022RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-10

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8905

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____ (ml)

passed 4/9/97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	620	U
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00022RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-10

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8905

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (ul)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00023RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-11

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8906

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (mL

passed 4/4/97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	620	U
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00023RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-11

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8906

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00024RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-12

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8907

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____ (uL

passed 4/4/97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	280	J
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	3700	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00024RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-12

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8907

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____ (uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00025RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-13

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8908

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(ml)

passed 4/9/97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	620	U
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	310	J
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KB00025RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-13

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8908

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

KB00026RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-14 FAILED

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8909 # 9/9/97

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	900	
56-23-5	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	78000	E
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
KB00026RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-14

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8909

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10 (ml) Soil Aliquot Volume: _____ (u

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB00026RMDL

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436 Exceeded cleanup standard

Matrix: (soil/water) SOIL Lab Sample ID: 54543-14DL 4/11/97

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8914 DL: Dilution

Level: (low/med) MED Date Received: 04/08/97 (Reason & quantity PCE which was flagged "E" originally

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: 20(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	3100	U
1330-20-7	Xylene (total)	3100	U
74-87-3	Chloromethane	6200	U
75-01-4	Vinyl Chloride	6200	U
74-83-9	Bromomethane	6200	U
75-00-3	Chloroethane	6200	U
75-35-4	1,1-Dichloroethene	3100	U
67-64-1	Acetone	12000	U
75-15-0	Carbon Disulfide	3100	U
75-09-2	Methylene Chloride	3100	U
75-34-3	1,1-Dichloroethane	3100	U
78-93-3	2-Butanone	12000	U
67-66-3	Chloroform	3100	U
71-55-6	1,1,1-Trichloroethane	3100	U
71-43-2	Benzene	3100	U
107-06-2	1,2-Dichloroethane	3100	U
79-01-6	Trichloroethene	870	DJ
56-23-5	Carbon Tetrachloride	[illegible]	U
75-27-4	Bromodichloromethane	3100	U
78-87-5	1,2-Dichloropropane	3100	U
10061-01-5	cis-1,3-Dichloropropene	3100	U
108-88-3	Toluene	3100	U
10061-02-6	trans-1,3-Dichloropropene	3100	U
79-00-5	1,1,2-Trichloroethane	3100	U
124-48-1	Dibromochloromethane	3100	U
75-25-2	Bromoform	3100	U
108-10-1	4-Methyl-2-pentanone	12000	U
79-34-5	1,1,2,2-Tetrachloroethane	3100	U
127-18-4	Tetrachloroethene	86000	D
591-78-6	2-Hexanone	12000	U
108-90-7	Chlorobenzene	3100	U
100-41-4	Ethylbenzene	3100	U
100-42-5	Styrene	3100	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EB00027RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436 passed 4/9/97

Matrix: (soil/water) SOIL Lab Sample ID: 54543-15

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8910

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
540-59-0	1,2-Dichloroethene (total)	620	U
1330-20-7	Xylene (total)	620	U
74-87-3	Chloromethane	1200	U
75-01-4	Vinyl Chloride	1200	U
74-83-9	Bromomethane	1200	U
75-00-3	Chloroethane	1200	U
75-35-4	1,1-Dichloroethene	620	U
67-64-1	Acetone	2500	U
75-15-0	Carbon Disulfide	620	U
75-09-2	Methylene Chloride	620	U
75-34-3	1,1-Dichloroethane	620	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	620	U
71-55-6	1,1,1-Trichloroethane	620	U
71-43-2	Benzene	620	U
107-06-2	1,2-Dichloroethane	620	U
79-01-6	Trichloroethene	230	J
[illegible]	Carbon Tetrachloride	620	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
108-88-3	Toluene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
79-00-5	1,1,2-Trichloroethane	620	U
124-48-1	Dibromochloromethane	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-pentanone	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
127-18-4	Tetrachloroethene	4200	
591-78-6	2-Hexanone	2500	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00027RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) SOIL Lab Sample ID: 54543-15

Sample wt/vol: 4.0 (g/mL) G Lab File ID: W8910

Level: (low/med) MED Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/09/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10(ml) Soil Aliquot Volume: _____(uL

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
EB00028RM

Lab Name: QUANTERRA Contract: Trip Blank

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) WATER Lab Sample ID: 54543-16TB

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: W8888

Level: (low/med) LOW Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(ml) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
540-59-0	1,2-Dichloroethene (total)	5	U
1330-20-7	Xylene (total)	5	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
56-23	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
124-48-1	Dibromochloromethane	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	20	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	20	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EB00028RM

Lab Name: QUANTERRA Contract:

Lab Code: Case No.: 54543 SAS No.: SDG No.: D436

Matrix: (soil/water) WATER Lab Sample ID: 54543-16TB

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: W8888

Level: (low/med) LOW Date Received: 04/08/97

% Moisture: not dec. _____ Date Analyzed: 04/08/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ml) Soil Aliquot Volume: _____ (uL

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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