N96095.AR.000305
NWIRP CALVERTON NY
5090.3a

Phase 2 RCRA Facility Investigation

for

Naval Weapons Industrial Reserve Plant

Calverton, New York

Volume II

Northern Division
Naval Facilities Engineering Command

Contract Number N62472-90-D-1298

Contract Task Order 0270

January 1998

CF BRAUN ENGINEERING CORPORATION

APPENDICES

APPENDIX

A	ANALYTICAL DATA, METHODS, AND QUALIFIERS
B	TEST PIT LOG SHEETS
C	SAMPLE LOG SHEETS
D	CHAIN OF CUSTODY FORMS
E	EPA SOP FOR LOW FLOW SAMPLING
F	FIELD LOG SHEETS - LOW FLOW SAMPLING
G	MONITORING WELL CONSTRUCTION SHEETS

APPENDIX A

ANALYTICAL DATA, METHODS, AND QUALIFIERS

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 10:35:30
Date:
Collected:04/20/97
Received :04/20/97
Completed:04/28/97

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
N P G W O 145
C O C #13
Liquid Sample/Sampled 10:32 A.M.
LIQUID

Sample Number 77939704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene	<0.50		
M-Dichlorobenzene	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 10:37:25
Date:
Collected:04/20/97
Received :04/20/97
Completed:04/25/97

Reported By:_____

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
N P G W O 160
C O C #13
Liquid Sample/Sampled 11:18 A.M.
LIQUID

Sample Number 77949704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 12:31:18
Date:
Collected:04/21/97
Received :04/23/97
Completed:04/25/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10088

Sample : Brown & Root Environmental
N P G W O 245
C O C #14
Liquid Sample/Sampled 10:27 A.M.
LIQUID

Sample Number 78269704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 12:29:15
Date:
Collected:04/21/97
Received :04/23/97
Completed:04/25/97

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
N P D U 05 Duplicate (Duplicate of NPGW0245)
C O C #14
Liquid Sample/Sampled 0:00
LIQUID

Sample Number 78259704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 12:33:27
Date:
Collected:04/21/97
Received :04/23/97
Completed:04/28/97

Reported By:

N.Y.S. Lab I.D. #10050

Sample Taken By
Client

Sample : Brown & Root Environmental
N P G W O 260
C O C #14
Liquid Sample/Sampled 11:05 A.M.
LIQUID

Sample Number 78279704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene	<0.50		
M-Dichlorobenzene	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 12:35:15
Date:
Collected:04/21/97
Received :04/23/97
Completed:04/25/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
N P G W O 345
C O C #14
Liquid Sample/Sampled 2:09 P.M.
LIQUID

Sample Number 78289704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 12:37:00
Date:
Collected:04/21/97
Received :04/23/97
Completed:04/25/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
N P G W O 360
C O C #14
Liquid Sample/Sampled 2:36 P.M.
LIQUID

Sample Number 78299704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:47:41
Date:
Collected:03/28/97
Received :04/01/97
Completed:04/03/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F T G W 0 1 1 9
C O C #1
Liquid Sample/Sampled 08:23 A.M.
LIQUID

Sample Number 74279704

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:48:59
Date:
Collected:03/28/97
Received :04/01/97
Completed:04/03/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F T G W 0 1 3 4
C O C #1
Liquid Sample/Sampled 08:51 A.M.
LIQUID

Sample Number 74289704

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:45:30
Date:
Collected:03/28/97
Received :04/01/97
Completed:04/03/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F T G W D U O 1 - Duplicate (Duplicate of FTGW0134)
C O C #1
Liquid Sample/Sampled 00:00 A.M.
LIQUID

Sample Number 74269704

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:17:08
Date:
Collected:04/06/97
Received :04/07/97
Completed:04/10/97

Reported By:

N.Y.S. Lab I.D. #10088

Sample Taken By
Client

Sample : Brown & Root Environmental
F T G W O 219
C O C #7
Liquid Sample/Sampled 11:28 A.M.
LIQUID

Sample Number 75499704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<2.50	Ethylbenzene	<2.50
1,1-Dichloroethylene	<2.50	Toluene	<2.50
1,1-Dichloroethane	<2.50	Total Xylene	<2.50
Trans-1,2-Dichloroethylene	<2.50	Bromomethane	<2.50
Chloroform	<2.50	Chloromethane	<2.50
1,2-Dichloroethane	<2.50	Trichloro-Flouromethane	<2.50
1,1,1-Trichloroethane	<2.50	Trichlorotriflouroethane	<2.50
Carbon Tetrachloride	<2.50	Chloroethane	<2.50
Bromodichloromethane	<2.50		
1,2-Dichloropropane	<2.50		
Cis-Dichloropropylene	<2.50		
Trans-Dichloropropylene	<2.50		
Trichloroethylene	<2.50		
Vinyl Chloride	<2.50		
1,1,2-Trichloroethane	<2.50		
Dibromochloroethane	<2.50		
Bromoform	<2.50		
1,2-Dibromoethane	<2.50		
Tetrachloroethylene	<2.50		
Cis-1,2-Dichloroethylene	<2.50		
Benzene	<2.50		
Chlorobenzene	<2.50		
O-Dichlorobenzene (1,2)	<2.50		
M-Dichlorobenzene (1,3)	<2.50		
P-Dichlorobenzene (1,4)	<2.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:19:02
Date:
Collected:04/06/97
Received :04/07/97
Completed:04/10/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
F T G W O 234
C O C #7
Liquid Sample/Sampled 11:45 A.M.
LIQUID

Sample Number 75509704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<2.50	Ethylbenzene	<2.50
1,1-Dichloroethylene	<2.50	Toluene	<2.50
1,1-Dichloroethane	<2.50	Total Xylene	<2.50
Trans-1,2-Dichloroethylene	<2.50	Bromomethane	<2.50
Chloroform	<2.50	Chloromethane	<2.50
1,2-Dichloroethane	<2.50	Trichloro-Flouromethane	<2.50
1,1,1-Trichloroethane	<2.50	Trichlorotriflouroethane	<2.50
Carbon Tetrachloride	<2.50	Chloroethane	<2.50
Bromodichloromethane	<2.50		
1,2-Dichloropropane	<2.50		
Cis-Dichloropropylene	<2.50		
Trans-Dichloropropylene	<2.50		
Trichloroethylene	<2.50		
Vinyl Chloride	<2.50		
1,1,2-Trichloroethane	<2.50		
Dibromochloroethane	<2.50		
Bromoform	<2.50		
1,2-Dibromoethane	<2.50		
Tetrachloroethylene	<2.50		
Cis-1,2-Dichloroethylene	<2.50		
Benzene	<2.50		
Chlorobenzene	<2.50		
O-Dichlorobenzene (1,2)	<2.50		
M-Dichlorobenzene (1,3)	<2.50		
P-Dichlorobenzene (1,4)	<2.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:51:15
Date:
Collected:08/13/97
Received :08/14/97
Completed:08/18/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
Ft-GW08-45 = FT-GW02-45
C O C #31
Liquid Sample/Sampled 9:30 A.M.
LIQUID

Sample Number 12449708

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	12.88	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	0.74	Trichlorotriflouroethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	1.18		
Cis-1,2-Dichloroethylene	1.59		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:53:16
Date:
Collected: 08/13/97
Received : 08/14/97
Completed: 08/18/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
Ft-GW08-65
C O C #31
Liquid Sample/Sampled 10:30 A.M.
LIQUID

Sample Number 12459708

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	2.01	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotriflouroethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:55:17
Date:
Collected:08/13/97
Received :08/14/97
Completed:08/18/97

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
Ft-Dup-18 Duplicate
C O C #31
Liquid Sample/Sampled 00:00
LIQUID

Sample Number 12469708

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	11.35	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	0.67	Trichlorotriflouroethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	1.32		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:57:56
Date:
Collected:08/13/97
Received :08/14/97
Completed:08/18/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
Ft-GW08-85
C O C #31
Liquid Sample/Sampled 12:00 P.M.
LIQUID

Sample Number 12479708

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	0.74	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotriflouroethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
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To: C F Braun, Kelly A. Johnson
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Pittsburgh PA 15220
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Time Of Login : 13:09:17
Date:
Collected:04/17/97
Received :04/18/97
Completed:04/23/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F T G W 0319
C C C #12
Liquid Sample/Sampled 3:11 P.M.
LIQUID

Sample Number 77639704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l
Methylene Chloride	<0.50	Ethylbenzene	61.5
1,1-Dichloroethylene	<0.50	Toluene	5.3
1,1-Dichloroethane	<0.50	Total Xylene	27.7
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	17.60		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 13:11:30
Date:
Collected:04/17/97
Received :04/18/97
Completed:04/23/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
F T G W 0334
C O C #12
Liquid Sample/Sampled 3:26 P.M.
LIQUID

Sample Number 77649704

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	0.8	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	2.5
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	41.20
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	1.20		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
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Time Of Login : 15:04:28
Date:
Collected:06/06/97
Received :06/06/97
Completed:06/10/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
F T G W 03 48
C O C #24
Liquid Sample/Sampled 1:30 P.M.
LIQUID

Sample Number 85289706

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:05:58
Date:
Collected:06/06/97
Received :06/06/97
Completed:06/10/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
F T G W 03 68
C O C #24
Liquid Sample/Sampled 2:30 P.M.
LIQUID

Sample Number 85299706

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	2.5	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50	Dichlorodifluoromethane	2.8
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	0.89		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
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Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 14:49:06
Date:
Collected:06/18/97
Received :06/18/97
Completed:06/19/97

Sample Taken By ?
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
F T -G W 03-78
C O C #26
Liquid Sample/Sampled 8:30 A.M.
LIQUID

Sample Number 86809706

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	30.79	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	0.96	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	1.46		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	13.00		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:12:22
Date:
Collected:05/~~09~~/97 08
Received :05/~~09~~/97 09
Completed:05/12/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. 10058

Sample : Brown & Root Environmental
F T G W 04-19
C O C #16
Liquid Sample/Sampled 3:55 P.M.
LIQUID

Sample Number 80769705

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:14:10
Date:
Collected:05/~~09~~/97 05 09
Received :05/~~08~~/97
Completed:05/12/97

Sample Taken By
Client

Reported By: _____

N.Y.S. Lab I.D. #10068

Sample : Brown & Root Environmental
F T G W 04-34
C O C #16
Liquid Sample/Sampled 4:10 P.M.
LIQUID

Sample Number 80779705

Analysis : EPA Method 601/602/

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Flouromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
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Pittsburgh PA 15220
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Time Of Login : 16:08:28
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C -G W 01- 19
C O C #21
Liquid Sample/Sampled 7:30 P.M.
LIQUID

Sample Number 82719705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	0.99
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:28:43
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C -G W 01- 34
C O C #21
Liquid Sample/Sampled 7:45 P.M.
LIQUID

Sample Number 82729705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
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Time Of Login : 09:34:13
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
G C -G W 01- 54
C O C #21
Liquid Sample/Sampled 8:00 P.M.
LIQUID

Sample Number 82739705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	0.60	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
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Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:36:00
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C -G W 02- 19
C O C #21
Liquid Sample/Sampled 8:30 P.M.
LIQUID

Sample Number 82749705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	0.82		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
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Time Of Login : 09:37:44
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97

Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C -G W 02- 34
C O C #21
Liquid Sample/Sampled 8:45 P.M.
LIQUID

Sample Number 82759705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:39:21
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C -G W 02- 54
C O C #21
Liquid Sample/Sampled 9:15 P.M.
LIQUID

Sample Number 82769705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:41:13
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C -G W 03- 19
C O C #21
Liquid Sample/Sampled 10:20 P.M.
LIQUID

Sample Number 82779705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	0.98		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	1.69		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:42:54
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C -G W 03- 34
C O C #21
Liquid Sample/Sampled 10:45 P.M.
LIQUID

Sample Number 82789705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	2.25		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 09:45:45
Date:
Collected:05/21/97
Received :05/22/97
Completed:05/27/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
G C -G W 03- 54
C O C #21
Liquid Sample/Sampled 11:10 P.M.
LIQUID

Sample Number 82799705

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	2.42		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:49:29
Date:
Collected:06/03/97
Received :06/03/97
Completed:06/04/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
G C G W 04-19
C O C #22
Liquid Sample/Sampled 11:00 A.M.
LIQUID

Sample Number 84039706

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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Volumetric Techniques, LTD.

317 Bernice Drive * Bayport, New York 11705 * (516) 472-4848

To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:52:38
Date:
Collected:06/03/97
Received :06/03/97
Completed:06/04/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10958

Sample : Brown & Root Environmental
G C G W 04-34
C O C #22
Liquid Sample/Sampled 11:15 A.M.
LIQUID

Sample Number 84049706

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:54:37
Date:
Collected:06/03/97
Received :06/03/97
Completed:06/04/97

Sample Taken By
Client

Reported By:

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
G C G W 04-54
C O C #22
Liquid Sample/Sampled 11:45 A.M.
LIQUID

Sample Number 84059706

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
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Time Of Login : 16:13:58
Date:
Collected:04/02/97
Received :04/03/97
Completed:04/07/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F D G W 0 1 1 7
C O C #4
Liquid Sample/Sampled 3:12 P.M.
LIQUID

Sample Number 74909704

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<5.00	Ethylbenzene	<5.00
1,1-Dichloroethylene	<5.00	Toluene	<5.00
1,1-Dichloroethane	<5.00	Total Xylene	<5.00
Trans-1,2-Dichloroethylene	<5.00	Bromomethane	<5.00
Chloroform	<5.00	Chloromethane	<5.00
1,2-Dichloroethane	<5.00	Trichloro-Flouromethane	<5.00
1,1,1-Trichloroethane	<5.00	Trichlorotriflouroethane	<5.00
Carbon Tetrachloride	<5.00	Chloroethane	<5.00
Bromodichloromethane	<5.00		
1,2-Dichloropropane	<5.00		
Cis-Dichloropropylene	<5.00		
Trans-Dichloropropylene	<5.00		
Trichloroethylene	<5.00		
Vinyl Chloride	<5.00		
1,1,2-Trichloroethane	<5.00		
Dibromochloroethane	<5.00		
Bromoform	<5.00		
1,2-Dibromoethane	<5.00		
Tetrachloroethylene	<5.00		
Cis-1,2-Dichloroethylene	<5.00		
Benzene	<5.00		
Chlorobenzene	<5.00		
O-Dichlorobenzene (1,2)	<5.00		
M-Dichlorobenzene (1,3)	<5.00		
P-Dichlorobenzene (1,4)	<5.00		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 16:17:00
Date:
Collected:04/02/97
Received :04/03/97
Completed:04/07/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F D G W 0 1 3 6
C O C #4
Liquid Sample/Sampled 3:31 P.M.
LIQUID

Sample Number 74919704

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<5.00	Ethylbenzene	<5.00
1,1-Dichloroethylene	<5.00	Toluene	<5.00
1,1-Dichloroethane	<5.00	Total Xylene	<5.00
Trans-1,2-Dichloroethylene	<5.00	Bromomethane	<5.00
Chloroform	<5.00	Chloromethane	<5.00
1,2-Dichloroethane	<5.00	Trichloro-Flouromethane	<5.00
1,1,1-Trichloroethane	<5.00	Trichlorotriflouroethane	<5.00
Carbon Tetrachloride	<5.00	Chloroethane	<5.00
Bromodichloromethane	<5.00		
1,2-Dichloropropane	<5.00		
Cis-Dichloropropylene	<5.00		
Trans-Dichloropropylene	<5.00		
Trichloroethylene	<5.00		
Vinyl Chloride	<5.00		
1,1,2-Trichloroethane	<5.00		
Dibromochloroethane	<5.00		
Bromoform	<5.00		
1,2-Dibromoethane	<5.00		
Tetrachloroethylene	<5.00		
Cis-1,2-Dichloroethylene	<5.00		
Benzene	<5.00		
Chlorobenzene	<5.00		
O-Dichlorobenzene (1,2)	<5.00		
M-Dichlorobenzene (1,3)	<5.00		
P-Dichlorobenzene (1,4)	<5.00		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 13:15:36
Date:
Collected:04/08/97
Received :04/08/97
Completed:04/14/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
FD ~~E T~~ G W O 219
C O C #9
Liquid Sample/Sampled 2:44 P.M.
LIQUID

Sample Number 75939704

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<2.50	Ethylbenzene	<2.50
1,1-Dichloroethylene	<2.50	Toluene	<2.50
1,1-Dichloroethane	<2.50	Total Xylene	<2.50
Trans-1,2-Dichloroethylene	<2.50	Bromomethane	<2.50
Chloroform	<2.50	Chloromethane	<2.50
1,2-Dichloroethane	<2.50	Trichloro-Flouromethane	<2.50
1,1,1-Trichloroethane	<2.50	Trichlorotriflouroethane	<2.50
Carbon Tetrachloride	<2.50	Chloroethane	<2.50
Bromodichloromethane	<2.50		
1,2-Dichloropropane	<2.50		
Cis-Dichloropropylene	<2.50		
Trans-Dichloropropylene	<2.50		
Trichloroethylene	<2.50		
Vinyl Chloride	<2.50		
1,1,2-Trichloroethane	<2.50		
Dibromochloroethane	<2.50		
Bromoform	<2.50		
1,2-Dibromoethane	<2.50		
Tetrachloroethylene	<2.50		
Cis-1,2-Dichloroethylene	<2.50		
Benzene	<2.50		
Chlorobenzene	<2.50		
O-Dichlorobenzene (1,2)	<2.50		
M-Dichlorobenzene (1,3)	<2.50		
P-Dichlorobenzene (1,4)	<2.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 13:17:13
Date:
Collected:04/08/97
Received :04/08/97
Completed:04/14/97

Sample Taken By
Client

Reported By: [signature]

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
FD ~~E T~~ G W O 234
C O C #9
Liquid Sample/Sampled 3:12 P.M.
LIQUID

DCK 7/8/97

Sample Number 75949704

Analysis : EPA Method 601/602

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<2.50	Ethylbenzene	<2.50
1,1-Dichloroethylene	<2.50	Toluene	<2.50
1,1-Dichloroethane	<2.50	Total Xylene	<2.50
Trans-1,2-Dichloroethylene	<2.50	Bromomethane	<2.50
Chloroform	<2.50	Chloromethane	<2.50
1,2-Dichloroethane	<2.50	Trichloro-Flouromethane	<2.50
1,1,1-Trichloroethane	<2.50	Trichlorotriflouroethane	<2.50
Carbon Tetrachloride	<2.50	Chloroethane	<2.50
Bromodichloromethane	<2.50		
1,2-Dichloropropane	<2.50		
Cis-Dichloropropylene	<2.50		
Trans-Dichloropropylene	<2.50		
Trichloroethylene	<2.50		
Vinyl Chloride	<2.50		
1,1,2-Trichloroethane	3.1		
Dibromochloroethane	<2.50		
Bromoform	<2.50		
1,2-Dibromoethane	<2.50		
Tetrachloroethylene	<2.50		
Cis-1,2-Dichloroethylene	<2.50		
Benzene	<2.50		
Chlorobenzene	<2.50		
O-Dichlorobenzene (1,2)	<2.50		
M-Dichlorobenzene (1,3)	<2.50		
P-Dichlorobenzene (1,4)	<2.50		

Comments
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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:14:32
Date:
Collected:05/12/97
Received :05/12/97
Completed:05/19/97

Sample Taken By
Client

Reported By: _____

N.Y.S. Lab I.D. #10058

Sample : Brown & Root Environmental
F D-G W O 3 - 19
C O C #17
Liquid Sample/Sampled 8:40 A.M.
LIQUID

Sample Number 81019705

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	14.90
1,1-Dichloroethylene	<0.50	Toluene	25.89
1,1-Dichloroethane	<0.50	Total Xylene	9.54
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	16.90		
Chlorobenzene	11.27		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:16:25
Date:
Collected:05/12/97
Received :05/12/97
Completed:05/19/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F D-G W O 3 - 34
C O C #17
Liquid Sample/Sampled 8:55 A.M.
LIQUID

Sample Number 81029705

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	10.28
1,1-Dichloroethylene	<0.50	Toluene	16.76
1,1-Dichloroethane	<0.50	Total Xylene	5.68
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
1,2-Dibromoethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	11.64		
Chlorobenzene	8.33		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
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Time Of Login : 15:43:07
Date:
Collected:06/03/97
Received :06/03/97
Completed:06/04/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F D-G W 04-19
C O C #22
Liquid Sample/Sampled 8:40 A.M.
LIQUID

Sample Number 84009706

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	0.63
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:45:16
Date:
Collected: 06/03/97
Received : 06/03/97
Completed: 06/04/97
Reported By: _____

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F D-G W 04-34
C O C #22
Liquid Sample/Sampled 8:55 A.M.
LIQUID

Sample Number 84019706

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	0.63
1,1-Dichloroethane	<0.50	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

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To: C F Braun, Kelly A. Johnson
661 Anderson Dr/Foster Plaza 7
Pittsburgh PA 15220
(412) 921-7273

Time Of Login : 15:47:34
Date:
Collected:06/03/97
Received :06/03/97
Completed:06/04/97
Reported By:

N.Y.S. Lab I.D. #10058

Sample Taken By
Client

Sample : Brown & Root Environmental
F D-G W 04-54
C O C #22
Liquid Sample/Sampled 9:20 A.M.
LIQUID

Sample Number 84029706

Analysis : EPA Method 601/602/Freon

Parameters	Results ppb(mmg/l)	Parameters	Results ppb(mmg/l)
Methylene Chloride	<0.50	Ethylbenzene	<0.50
1,1-Dichloroethylene	<0.50	Toluene	<0.50
1,1-Dichloroethane	1.00	Total Xylene	<0.50
Trans-1,2-Dichloroethylene	<0.50	Bromomethane	<0.50
Chloroform	<0.50	Chloromethane	<0.50
1,2-Dichloroethane	<0.50	Trichloro-Fluoromethane	<0.50
1,1,1-Trichloroethane	<0.50	Trichlorotrifluorethane	<0.50
Carbon Tetrachloride	<0.50	Chloroethane	<0.50
Bromodichloromethane	<0.50		
1,2-Dichloropropane	<0.50		
Cis-Dichloropropylene	<0.50		
Trans-Dichloropropylene	<0.50		
Trichloroethylene	<0.50		
Vinyl Chloride	<0.50		
1,1,2-Trichloroethane	<0.50		
Dibromochloroethane	<0.50		
Bromoform	<0.50		
Tetrachloroethane	<0.50		
Tetrachloroethylene	<0.50		
Cis-1,2-Dichloroethylene	<0.50		
Benzene	<0.50		
Chlorobenzene	<0.50		
O-Dichlorobenzene (1,2)	<0.50		
M-Dichlorobenzene (1,3)	<0.50		
P-Dichlorobenzene (1,4)	<0.50		

Comments
* Indicates less than 1 part per billion or below detection limit.

* CONSULTING CHEMISTS * COMPLETE LABORATORY TESTING *
* Sander R. Sternig * Director of Laboratories *

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAHG101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW01-062397

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab-Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAHG101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW01-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0007

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAHG101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW01-062397

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0008

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHG104
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/28/97

QC Batch: 7186125

Client Sample Id: NP-MW01-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHG104
Dilution factor: 1
Moisture %: NA

Date Received: 06/24/97
Date Extracted: 06/28/97
Date Analyzed: 07/28/97

QC Batch: 7186125

Client Sample Id: NP-MW01-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL

Date Received: 06/24/97

Work Order: CAAHG104

Date Extracted: 06/28/97

Dilution factor: 1

Date Analyzed: 07/28/97

Moisture %: NA

QC Batch: 7186125

Client Sample Id: NP-MW01-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

0031

FORM I

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHG104
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/28/97

QC Batch: 7186125

Client Sample Id: NP-MW01-062397

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPMW01062397

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR320

Matrix: (soil/water) WATER Lab Sample ID: C7F240143002

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPDUP01W

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR320

Matrix: (soil/water) WATER Lab Sample ID: C7F240143005

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-MW01

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR320_

Matrix (soil/water): WATER Lab Sample ID: CAAHG

Level (low/med): LOW__ Date Received: 06/24/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	37.7	B		P_
7440-36-0	Antimony_	14.0	U		P_
7440-38-2	Arsenic__	2.3	U		P_
7440-39-3	Barium___	16.2	B		P_
7440-41-7	Beryllium	0.24	B		P_
7440-43-9	Cadmium__	2.6	U		P_
7440-70-2	Calcium__	4290	B		P_
7440-47-3	Chromium_	2.3	U		P_
7440-48-4	Cobalt___	4.1	B		P_
7440-50-8	Copper___	1.5	U		P_
7439-89-6	Iron____	6.6	B		P_
7439-92-1	Lead____	1.1	B		P_
7439-95-4	Magnesium	1290	B		P_
7439-96-5	Manganese	56.5	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	8.4	U		P_
7440-09-7	Potassium	758	B		P_
7782-49-2	Selenium_	3.0	U		P_
7440-22-4	Silver___	2.4	U		P_
7440-23-5	Sodium___	4720	B		P_
7440-28-0	Thallium_	4.0	B		P_
7440-62-2	Vanadium_	1.8	B		P_
7440-66-6	Zinc____	7.1	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

NP-MW01-062397

C7F240143002

0084

FORM I - IN ILM03

U.S. EPA - CLP

1.

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-DUP01-W

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR320_

Matrix (soil/water): WATER Lab Sample ID: CAAHK

Level (low/med): LOW__ Date Received: 06/24/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	145	B		P_
7440-36-0	Antimony_	14.0	U		P_
7440-38-2	Arsenic__	2.3	U		P_
7440-39-3	Barium___	30.2	B		P_
7440-41-7	Beryllium	0.68	B		P_
7440-43-9	Cadmium__	2.6	U		P_
7440-70-2	Calcium__	1370	B		P_
7440-47-3	Chromium_	2.3	U		P_
7440-48-4	Cobalt___	3.1	U		P_
7440-50-8	Copper___	1.5	U		P_
7439-89-6	Iron_____	11.1	B		P_
7439-92-1	Lead_____	1.0	U		P_
7439-95-4	Magnesium	1870	B		P_
7439-96-5	Manganese	38.6	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	8.4	U		P_
7440-09-7	Potassium	724	B		P_
7782-49-2	Selenium_	3.0	U		P_
7440-22-4	Silver___	2.4	U		P_
7440-23-5	Sodium___	6990	_		P_
7440-28-0	Thallium_	4.2	B		P_
7440-62-2	Vanadium_	1.8	B		P_
7440-66-6	Zinc_____	17.3	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

NP-DUP01-W

37F240143005

0083

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21R101
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW01

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K140136 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21R101
Dilution factor: 1
Moisture %:NA

Date Received: 11/14/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0012

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR345

Matrix: (soil/water) WATER Lab Sample ID:C7K140136 003
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL Date Received: 11/14/97
Work Order: CE21R101 Date Extracted:11/18/97
Dilution factor: 1 Date Analyzed: 11/18/97
Moisture %:NA

QC Batch: 7322109

Client Sample Id: NP-MW01

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0013

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21R102
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21R102
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	**Diethyl phthalate**	**1.1**	**J**
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21R102
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K140136 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21R102
Dilution factor: 1
Moisture %:NA

Date Received: 11/14/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW01

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

0056

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW01

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR345

Matrix: (soil/water) WATER Lab Sample ID: C7K140136003

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/14/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NPMW01

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR345_

Matrix (soil/water): WATER Lab Sample ID: CE21R

Level (low/med): LOW__ Date Received: 11/14/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	61.7	B		P_
7440-36-0	Antimony_	22.3	U		P_
7440-38-2	Arsenic__	1.9	U		P_
7440-39-3	Barium___	16.2	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	2.3	U		P_
7440-70-2	Calcium__	4040	B		P_
7440-47-3	Chromium_	3.2	U		P_
7440-48-4	Cobalt___	3.5	U		P_
7440-50-8	Copper___	2.7	B		P_
7439-89-6	Iron_____	82.4	B		P_
7439-92-1	Lead_____	0.80	U		P_
7439-95-4	Magnesium	1280	B		P_
7439-96-5	Manganese	40.7	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	6.9	U		P_
7440-09-7	Potassium	652	B		P_
7782-49-2	Selenium_	2.5	U		P_
7440-22-4	Silver___	3.3	U		P_
7440-23-5	Sodium___	3810	B		P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	2.0	U		P_
7440-66-6	Zinc_____	6.6	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

NP-MW01

C7K140136003

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAPP101
Dilution factor: 1
Moisture %: NA

Date Received: 06/25/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW02-062497

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAPP101
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW02-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Date Received: 06/25/97

Work Order: CAAPP101

Date Extracted:06/26/97

Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW02-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0011

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPP102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW02-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

FORM I

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPP102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW02-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPP102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW02-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPP102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW02-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

0036

FORM I - TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPMW02062497

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR322

Matrix: (soil/water) WATER Lab Sample ID: C7F250118003

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-MW02

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR322_

Matrix (soil/water): WATER Lab Sample ID: CAAPP

Level (low/med): LOW__ Date Received: 06/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	23.8	B		P_
7440-36-0	Antimony_	14.0	U		P_
7440-38-2	Arsenic__	2.3	U		P_
7440-39-3	Barium___	121	B		P_
7440-41-7	Beryllium	0.15	B		P_
7440-43-9	Cadmium__	2.6	U		P_
7440-70-2	Calcium__	449000	_		P_
7440-47-3	Chromium_	2.3	U		P_
7440-48-4	Cobalt___	3.1	U		P_
7440-50-8	Copper___	1.5	U		P_
7439-89-6	Iron_____	14500	_		P_
7439-92-1	Lead_____	1.0	U		P_
7439-95-4	Magnesium	24600	_		P_
7439-96-5	Manganese	1720	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	8.4	U		P_
7440-09-7	Potassium	16800	_		P_
7782-49-2	Selenium_	3.0	U		P_
7440-22-4	Silver___	2.4	U		P_
7440-23-5	Sodium___	15000	_		P_
7440-28-0	Thallium_	6.7	B		P_
7440-62-2	Vanadium_	4.9	B		P_
7440-66-6	Zinc_____	15.0	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW02-062497
C7F250118003

0085

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CAAPM101
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW02I-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	1.3	J
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
71-55-6	1,1,1-Trichloroethane	5.7	J

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CAAPM101
Dilution factor: 1
Moisture %: NA

Date Received: 06/25/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW02I-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Work Order: CAAPM101

Date Received: 06/25/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW02I-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0008

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPM102
Dilution factor: 1
Moisture %: NA

Date Received: 06/25/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW02I-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR322

Matrix: (soil/water) WATER Lab Sample ID:C7F250118 002
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL Date Received: 06/25/97
Work Order: CAAPM102 Date Extracted:06/28/97
Dilution factor: 1 Date Analyzed: 07/29/97
Moisture %:NA

QC Batch: 7186125

Client Sample Id: NP-MW02I-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPM102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW02I-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPM102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW02I-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	4.1825	2.5	J

0030

FORM I - TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPMW02I62497

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR322

Matrix: (soil/water) WATER Lab Sample ID: C7F250118002

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-MW02I

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR322_

Matrix (soil/water): WATER Lab Sample ID: CAAPM

Level (low/med): LOW__ Date Received: 06/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.8	B		P
7440-36-0	Antimony	14.0	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	49.7	B		P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	3.8	B		P
7440-70-2	Calcium	81000			P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	6.3	B		P
7440-50-8	Copper	1.9	B		P
7439-89-6	Iron	354			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	8500			P
7439-96-5	Manganese	33.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	10.1	B		P
7440-09-7	Potassium	5970			P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.4	U		P
7440-23-5	Sodium	8590			P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	2.8	B		P
7440-66-6	Zinc	13.7	B		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW02I-062497
C7F250118002

0086

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HD101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: NP-MW02

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HD101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: NP-MW02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HD101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: NP-MW02

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0034

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE0HD102
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: NP-MW02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE0HD102
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: NP-MW02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	**N-Nitrosodi-n-propylamine**	**8.0**	**J**
86-30-6	N-Nitrosodiphenylamine	10	U

0081

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE0HD102
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: NP-MW02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE0HD102
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: NP-MW02

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	6.4535	5.1	J
	UNKNOWN	7.7742	2.7	J
	UNKNOWN	11.786	2.3	J
10544-50-0	Sulfur, mol. (s8)	12.36	150	JN

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW02

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR344

Matrix: (soil/water) WATER Lab Sample ID: C7K120115006

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/12/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NPMW02

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR344_

Matrix (soil/water): WATER Lab Sample ID: CE0HD

Level (low/med): LOW__ Date Received: 11/12/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	58.2	B		P_
7440-36-0	Antimony_	22.3	U		P_
7440-38-2	Arsenic__	1.9	U		P_
7440-39-3	Barium___	129	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	2.3	U		P_
7440-70-2	Calcium__	408000	_		P_
7440-47-3	Chromium_	3.2	U		P_
7440-48-4	Cobalt___	3.5	U		P_
7440-50-8	Copper___	2.1	B		P_
7439-89-6	Iron_____	5250	_		P_
7439-92-1	Lead_____	0.80	U		P_
7439-95-4	Magnesium	21400	_		P_
7439-96-5	Manganese	1180	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	6.9	U		P_
7440-09-7	Potassium	15500	_		P_
7782-49-2	Selenium_	2.5	U		P_
7440-22-4	Silver___	3.3	U		P_
7440-23-5	Sodium___	14400	_		P_
7440-28-0	Thallium_	3.7	B		P_
7440-62-2	Vanadium_	5.6	B		P_
7440-66-6	Zinc_____	20.5	_	*	P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW02
C7K120115006

0162

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 007

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HE101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: NP-MW02-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	5.9	J
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 007

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HE101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: NP-MW02-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	4.4	J
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 007

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HE101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: NP-MW02-I

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT.	EST. CONC.	Q
	NO TICS DETECTED			ND

0037

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE0HE102
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: NP-MW02-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE0HE102
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: NP-MW02-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	**N-Nitrosodi-n-propylamine**	**7.3**	**J**
86-30-6	N-Nitrosodiphenylamine	10	U

0085

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE0HE102
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: NP-MW02-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA
SDG Number: BR344

Matrix: (soil/water) WATER
Lab Sample ID:C7K120115 007
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Date Received: 11/12/97
Work Order: CE0HE102
Date Extracted:11/18/97
Dilution factor: 1
Date Analyzed: 11/26/97
Moisture %:NA

QC Batch: 7324105

Client Sample Id: NP-MW02-I

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

0087

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW02-I

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR344

Matrix: (soil/water) WATER Lab Sample ID: C7K120115007

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/12/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NPMW02I

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR344_

Matrix (soil/water): WATER Lab Sample ID: CE0HE

Level (low/med): LOW__ Date Received: 11/12/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	37.4	B		P
7440-36-0	Antimony	22.3	U		P
7440-38-2	Arsenic	1.9	U		P
7440-39-3	Barium	27.8	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	2.3	U		P
7440-70-2	Calcium	31100			P
7440-47-3	Chromium	3.2	U		P
7440-48-4	Cobalt	3.5	U		P
7440-50-8	Copper	2.0	B		P
7439-89-6	Iron	96.8	B		P
7439-92-1	Lead	0.80	U		P
7439-95-4	Magnesium	5540			P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.9	U		P
7440-09-7	Potassium	3000	B		P
7782-49-2	Selenium	2.6	B		P
7440-22-4	Silver	3.3	U		P
7440-23-5	Sodium	5390			P
7440-28-0	Thallium	3.7	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	7.1	B	*	P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

NP-MW02-1

C7K120115007

0163

FORM I - IN ILM03

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAHJ101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW03-062397

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHJ101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW03-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0015

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHJ101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW03-062397

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0016

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHK101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-DUP01-W

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHK101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-DUP01-W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0018

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR320

Matrix: (soil/water) WATER Lab Sample ID:C7F240143 005
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL Date Received: 06/24/97
Work Order: CAAHK101 Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-DUP01-W

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0019

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHJ102
Dilution factor: 1
Moisture %: NA

Date Received: 06/24/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW03-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHJ102
Dilution factor: 1
Moisture %: NA

Date Received: 06/24/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW03-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHJ102
Dilution factor: 1
Moisture %: NA

Date Received: 06/24/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW03-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHJ102
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW03-062397

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHK102
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-DUP01-W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	1.3	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

FORM I

Lab Name:QUANTERRA SDG Number: BR320

Matrix: (soil/water) WATER Lab Sample ID:C7F240143 005
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL Date Received: 06/24/97
Work Order: CAAHK102 Date Extracted:06/28/97
Dilution factor: 1 Date Analyzed: 07/29/97
Moisture %:NA

QC Batch: 7186125

Client Sample Id: NP-DUP01-W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHK102
Dilution factor: 1
Moisture %: NA

Date Received: 06/24/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-DUP01-W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHK102
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-DUP01-W

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	6.38	2.8	J

0046

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPMW03062397

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR320

Matrix: (soil/water) WATER Lab Sample ID: C7F240143004

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-MW03

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR320_

Matrix (soil/water): WATER Lab Sample ID: CAAHJ

Level (low/med): LOW__ Date Received: 06/24/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	76.6	B		P_
7440-36-0	Antimony_	14.0	U		P_
7440-38-2	Arsenic__	2.3	U		P_
7440-39-3	Barium___	17.3	B		P_
7440-41-7	Beryllium	0.12	U		P_
7440-43-9	Cadmium__	2.6	U		P_
7440-70-2	Calcium__	37600	_		P_
7440-47-3	Chromium_	2.3	U		P_
7440-48-4	Cobalt___	3.1	U		P_
7440-50-8	Copper___	2.5	B		P_
7439-89-6	Iron____	24.2	B		P_
7439-92-1	Lead____	1.0	U		P_
7439-95-4	Magnesium	2670	B		P_
7439-96-5	Manganese	14.9	B		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	8.4	U		P_
7440-09-7	Potassium	1870	B		P_
7782-49-2	Selenium_	3.0	U		P_
7440-22-4	Silver___	2.4	U		P_
7440-23-5	Sodium___	1970	B		P_
7440-28-0	Thallium_	3.3	B		P_
7440-62-2	Vanadium_	3.0	B		P_
7440-66-6	Zinc____	13.7	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW03-062397
C7F240143004

0085

FORM I - IN ILM03

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21M101
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW03

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21M101
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21M101
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW03

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0005

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21W102
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: DUP-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21W102
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: DUP-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	**Diethyl phthalate**	**1.1**	**J**
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21W102
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: DUP-02

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR345

Matrix: (soil/water) WATER Lab Sample ID:C7K140136 005
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL Date Received: 11/14/97
Work Order: CE21W102 Date Extracted:11/18/97
Dilution factor: 1 Date Analyzed: 11/25/97
Moisture %:NA

QC Batch: 7324105

Client Sample Id: DUP-02

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

0060

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW03

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR345

Matrix: (soil/water) WATER Lab Sample ID: C7K140136001

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/14/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW03

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR344

Matrix: (soil/water) WATER Lab Sample ID: C7K140136001

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/14/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NPMW03

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR345_

Matrix (soil/water): WATER Lab Sample ID: CE21M

Level (low/med): LOW__ Date Received: 11/14/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	285	_		P_
7440-36-0	Antimony_	22.3	U		P_
7440-38-2	Arsenic__	1.9	U		P_
7440-39-3	Barium___	19.6	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	2.3	U		P_
7440-70-2	Calcium__	40400	_		P_
7440-47-3	Chromium_	3.2	U		P_
7440-48-4	Cobalt___	3.5	U		P_
7440-50-8	Copper___	4.5	B		P_
7439-89-6	Iron____	194	_		P_
7439-92-1	Lead____	0.80	U		P_
7439-95-4	Magnesium	2220	B		P_
7439-96-5	Manganese	12.9	B		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	6.9	U		P_
7440-09-7	Potassium	1650	B		P_
7782-49-2	Selenium_	2.5	U		P_
7440-22-4	Silver___	3.3	U		P_
7440-23-5	Sodium___	2040	B		P_
7440-28-0	Thallium_	5.8	B		P_
7440-62-2	Vanadium_	4.1	B		P_
7440-66-6	Zinc____	10.2	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW03
C7K140136001

0098

FORM I - IN ILM03

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHH101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW04-062397

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

0011

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHH101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW04-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0012

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHH101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW04-062397

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			-

0013

FORM I - TIC

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHH102
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW04-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**2.4**	**J**
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR320

Matrix: (soil/water) WATER Lab Sample ID:C7F240143 003
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHH102
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW04-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHH102
Dilution factor: 1
Moisture %:NA

Date Received: 06/24/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW04-062397

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAHH102
Dilution factor: 1
Moisture %: NA

Date Received: 06/24/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW04-062397

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

0038

FORM I - TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPMW04062397

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR320

Matrix: (soil/water) WATER Lab Sample ID: C7F240143003

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-MW04

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR320_

Matrix (soil/water): WATER Lab Sample ID: CAAHH

Level (low/med): LOW__ Date Received: 06/24/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	137	B		P_
7440-36-0	Antimony_	14.0	U		P_
7440-38-2	Arsenic__	2.3	U		P_
7440-39-3	Barium___	29.8	B		P_
7440-41-7	Beryllium	0.61	B		P_
7440-43-9	Cadmium__	2.6	U		P_
7440-70-2	Calcium__	1260	B		P_
7440-47-3	Chromium_	2.3	U		P_
7440-48-4	Cobalt___	3.1	U		P_
7440-50-8	Copper___	1.5	U		P_
7439-89-6	Iron_____	7.1	B		P_
7439-92-1	Lead_____	1.0	U		P_
7439-95-4	Magnesium	1820	B		P_
7439-96-5	Manganese	38.2	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	8.4	U		P_
7440-09-7	Potassium	567	B		P_
7782-49-2	Selenium_	3.0	U		P_
7440-22-4	Silver___	2.4	U		P_
7440-23-5	Sodium___	6770	_		P_
7440-28-0	Thallium_	5.8	B		P_
7440-62-2	Vanadium_	1.6	U		P_
7440-66-6	Zinc_____	11.4	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW04-062397
C7F240143003

0086

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K140136 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21Q101
Dilution factor: 1
Moisture %:NA

Date Received: 11/14/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW04

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21Q101
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K140136 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE21Q101
Dilution factor: 1
Moisture %:NA

Date Received: 11/14/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW04

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0010

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K140136 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21Q102
Dilution factor: 1
Moisture %:NA

Date Received: 11/14/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID: C7K140136 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21Q102
Dilution factor: 1
Moisture %: NA

Date Received: 11/14/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K140136 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21Q102
Dilution factor: 1
Moisture %:NA

Date Received: 11/14/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K140136 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE21Q102
Dilution factor: 1
Moisture %:NA

Date Received: 11/14/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW04

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

0052

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW04

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR345

Matrix: (soil/water) WATER Lab Sample ID: C7K140136002

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/14/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NPMW04

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR345_

Matrix (soil/water): WATER Lab Sample ID: CE21Q

Level (low/med): LOW__ Date Received: 11/14/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	217	_		P_
7440-36-0	Antimony_	22.3	U		P_
7440-38-2	Arsenic__	1.9	U		P_
7440-39-3	Barium___	27.4	B		P_
7440-41-7	Beryllium	0.62	B		P_
7440-43-9	Cadmium__	2.3	U		P_
7440-70-2	Calcium__	1110	B		P_
7440-47-3	Chromium_	3.2	U		P_
7440-48-4	Cobalt___	3.5	U		P_
7440-50-8	Copper___	5.1	B		P_
7439-89-6	Iron_____	35.8	B		P_
7439-92-1	Lead_____	2.8	B		P_
7439-95-4	Magnesium	1250	B		P_
7439-96-5	Manganese	52.8	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	6.9	U		P_
7440-09-7	Potassium	427	B		P_
7782-49-2	Selenium_	2.5	U		P_
7440-22-4	Silver___	3.3	U		P_
7440-23-5	Sodium___	5410	_		P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	2.0	U		P_
7440-66-6	Zinc_____	7.5	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW04
C7K140136002

0099

FORM I - IN ILM03

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAPT101
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW05-062497

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAPT101
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW05-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA
SDG Number: BR322

Matrix: (soil/water) WATER
Lab Sample ID: C7F250118 005
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Date Received: 06/25/97
Work Order: CAAPT101
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW05-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			-

0017

FORM I - TIC

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPT102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW05-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR322

Matrix: (soil/water) WATER Lab Sample ID:C7F250118 005
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPT102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW05-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPT102
Dilution factor: 1
Moisture %: NA

Date Received: 06/25/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW05-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR322

Matrix: (soil/water) WATER Lab Sample ID:C7F250118 005
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPT102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW05-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPMW05062497

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR322

Matrix: (soil/water) WATER Lab Sample ID: C7F250118005

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-MW05

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR322_

Matrix (soil/water): WATER Lab Sample ID: CAAPT

Level (low/med): LOW__ Date Received: 06/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	436			P
7440-36-0	Antimony	14.0	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	15.5	B		P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium	2.6	U		P
7440-70-2	Calcium	6620			P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	3.1	U		P
7440-50-8	Copper	1.5	U		P
7439-89-6	Iron	244			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	888	B		P
7439-96-5	Manganese	24.2			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.4	U		P
7440-09-7	Potassium	359	B		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.4	U		P
7440-23-5	Sodium	3380	B		P
7440-28-0	Thallium	3.6	B		P
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	3.9	B		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW05-062497
C7F250118005

0087

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17G101
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW05

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17G101
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17G101
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW05

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0049

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17G102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17G102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17G102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17G102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW05

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
112-39-0	Hexadecanoic acid, methyl es	11.157	5.6	JN

0095

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW05

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR344

Matrix: (soil/water) WATER Lab Sample ID: C7K130115003

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/13/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NPMW05

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR344_

Matrix (soil/water): WATER Lab Sample ID: CE17G

Level (low/med): LOW__ Date Received: 11/13/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	336	_		P_
7440-36-0	Antimony_	22.3	U		P_
7440-38-2	Arsenic__	1.9	U		P_
7440-39-3	Barium___	3.8	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	2.3	U		P_
7440-70-2	Calcium__	7160	_		P_
7440-47-3	Chromium_	3.2	U		P_
7440-48-4	Cobalt___	3.5	U		P_
7440-50-8	Copper___	1.6	U		P_
7439-89-6	Iron____	5500	_		P_
7439-92-1	Lead____	0.80	U		P_
7439-95-4	Magnesium	605	B		P_
7439-96-5	Manganese	69.4	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	6.9	U		P_
7440-09-7	Potassium	423	U		P_
7782-49-2	Selenium_	2.5	U		P_
7440-22-4	Silver___	3.3	U		P_
7440-23-5	Sodium___	3540	B		P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	2.7	B		P_
7440-66-6	Zinc____	5.8	B	*	P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

NP-MW05

C7K130115003

0164

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAPR101
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW06-062497

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAPR101
Dilution factor: 1
Moisture %: NA

Date Received: 06/25/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW06-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0013

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Date Received: 06/25/97

Work Order: CAAPR101

Date Extracted: 06/26/97

Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-MW06-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0014

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID: C7F250118 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPR102
Dilution factor: 1
Moisture %: NA

Date Received: 06/25/97
Date Extracted: 06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW06-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR322

Matrix: (soil/water) WATER Lab Sample ID:C7F250118 004
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL Date Received: 06/25/97
Work Order: CAAPR102 Date Extracted:06/28/97
Dilution factor: 1 Date Analyzed: 07/29/97
Moisture %:NA

QC Batch: 7186125

Client Sample Id: NP-MW06-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U

FORM I

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CAAPR102
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/28/97
Date Analyzed: 07/29/97

QC Batch: 7186125

Client Sample Id: NP-MW06-062497

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR322

Matrix: (soil/water) WATER Lab Sample ID:C7F250118 004
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL Date Received: 06/25/97
Work Order: CAAPR102 Date Extracted:06/28/97
Dilution factor: 1 Date Analyzed: 07/29/97
Moisture %:NA

QC Batch: 7186125

Client Sample Id: NP-MW06-062497

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS			ND

0040

FORM I - TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPMW06062497

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR322

Matrix: (soil/water) WATER Lab Sample ID: C7F250118004

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NP-MW06

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR322_

Matrix (soil/water): WATER Lab Sample ID: CAAPR

Level (low/med): LOW__ Date Received: 06/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	455			P
7440-36-0	Antimony	14.0	U		P
7440-38-2	Arsenic	2.3	U		P
7440-39-3	Barium	4.0	B		P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	2.6	U		P
7440-70-2	Calcium	6220			P
7440-47-3	Chromium	2.3	U		P
7440-48-4	Cobalt	3.1	U		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	3920			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	673	B		P
7439-96-5	Manganese	59.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.4	U		P
7440-09-7	Potassium	354	B		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	2.4	U		P
7440-23-5	Sodium	3780	B		P
7440-28-0	Thallium	3.4	B		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	4.2	B		P

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:
NP-MW06-062497
C7F250118004

0088

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17F101
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW06

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17F101
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17F101
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: NP-MW06

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0046

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17F102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	3.6	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17F102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17F102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17F102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: NP-MW06

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	6.3485	2.4	J
112-39-0	Hexadecanoic acid, methyl es	11.159	5.1	JN
	UNKNOWN	17.349	3.2	J

0091

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NP-MW06

Lab Name: QUANTERRA PITT Contract:

Lab Code: Case No.: QPITTG SAS No.: SDG No.: BR344

Matrix: (soil/water) WATER Lab Sample ID: C7K130115002

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 11/13/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/18/97

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

NPMW06

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 375241 SAS No.: _____ SDG No.: BR344_

Matrix (soil/water): WATER Lab Sample ID: CE17F

Level (low/med): LOW__ Date Received: 11/13/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	433	_		P_
7440-36-0	Antimony_	22.3	U		P_
7440-38-2	Arsenic__	3.0	B		P_
7440-39-3	Barium___	22.4	B		P_
7440-41-7	Beryllium	0.20	U		P_
7440-43-9	Cadmium__	2.3	U		P_
7440-70-2	Calcium__	7400	_		P_
7440-47-3	Chromium_	3.2	U		P_
7440-48-4	Cobalt___	4.0	B		P_
7440-50-8	Copper___	2.4	B		P_
7439-89-6	Iron____	493	_		P_
7439-92-1	Lead____	0.80	U		P_
7439-95-4	Magnesium	573	B		P_
7439-96-5	Manganese	30.6	_		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	6.9	U		P_
7440-09-7	Potassium	423	U		P_
7782-49-2	Selenium_	2.5	U		P_
7440-22-4	Silver___	3.3	U		P_
7440-23-5	Sodium___	3790	B		P_
7440-28-0	Thallium_	3.7	U		P_
7440-62-2	Vanadium_	4.7	B		P_
7440-66-6	Zinc____	3.6	B	*	P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

NP-MW06

C7K130115002

0165

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CAAPH101
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-TB02-W

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CAAPH101
Dilution factor: 1
Moisture %:NA

Date Received: 06/25/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-TB02-W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR322

Matrix: (soil/water) WATER

Lab Sample ID:C7F250118 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g

Date Received: 06/25/97

Work Order: CAAPH101

Date Extracted:06/26/97

Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-TB02-W

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0005

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAAHF101

Date Received: 06/24/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-TB01W

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID:C7F240143 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHF101

Date Received: 06/24/97
Date Extracted:06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-TB01W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0004

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR320

Matrix: (soil/water) WATER

Lab Sample ID: C7F240143 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CAAHF101

Date Received: 06/24/97
Date Extracted: 06/26/97
Date Analyzed: 06/26/97

QC Batch: 7177160

Client Sample Id: NP-TB01W

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0005

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FP102
Dilution factor: 1
Moisture %: 36

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	520	U
208-96-8	Acenaphthylene	520	U
120-12-7	Anthracene	520	U
56-55-3	Benzo(a)anthracene	520	U
205-99-2	Benzo(b)fluoranthene	520	U
207-08-9	Benzo(k)fluoranthene	520	U
191-24-2	Benzo(ghi)perylene	520	U
50-32-8	Benzo(a)pyrene	520	U
111-91-1	bis(2-Chloroethoxy)methane	520	U
111-44-4	bis(2-Chloroethyl) ether	520	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	520	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**120**	**J**
101-55-3	4-Bromophenyl phenyl ether	520	U
85-68-7	Butyl benzyl phthalate	520	U
106-47-8	4-Chloroaniline	520	U
59-50-7	4-Chloro-3-methylphenol	520	U
91-58-7	2-Chloronaphthalene	520	U
95-57-8	2-Chlorophenol	520	U
7005-72-3	4-Chlorophenyl phenyl ether	520	U
218-01-9	Chrysene	520	U
53-70-3	Dibenz(a,h)anthracene	520	U
132-64-9	Dibenzofuran	520	U
84-74-2	Di-n-butyl phthalate	520	U
95-50-1	1,2-Dichlorobenzene	520	U
541-73-1	1,3-Dichlorobenzene	520	U
106-46-7	1,4-Dichlorobenzene	520	U
91-94-1	3,3'-Dichlorobenzidine	520	U
120-83-2	2,4-Dichlorophenol	520	U
84-66-2	Diethyl phthalate	520	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FP102
Dilution factor: 1
Moisture %: 36

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	520	U
131-11-3	Dimethyl phthalate	520	U
117-84-0	Di-n-octyl phthalate	520	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
51-28-5	2,4-Dinitrophenol	1300	U
121-14-2	2,4-Dinitrotoluene	520	U
606-20-2	2,6-Dinitrotoluene	520	U
206-44-0	Fluoranthene	520	U
86-73-7	Fluorene	520	U
118-74-1	Hexachlorobenzene	520	U
87-68-3	Hexachlorobutadiene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
67-72-1	Hexachloroethane	520	U
193-39-5	Indeno(1,2,3-cd)pyrene	520	U
78-59-1	Isophorone	520	U
91-57-6	2-Methylnaphthalene	520	U
95-48-7	2-Methylphenol	520	U
106-44-5	4-Methylphenol	520	U
91-20-3	Naphthalene	520	U
88-74-4	2-Nitroaniline	1300	U
99-09-2	3-Nitroaniline	1300	U
100-01-6	4-Nitroaniline	1300	U
98-95-3	Nitrobenzene	520	U
88-75-5	2-Nitrophenol	520	U
100-02-7	4-Nitrophenol	1300	U
621-64-7	N-Nitrosodi-n-propylamine	520	U
86-30-6	N-Nitrosodiphenylamine	520	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	520	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FP102
Dilution factor: 1
Moisture %:36

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	520	U
129-00-0	Pyrene	520	U
120-82-1	1,2,4-Trichlorobenzene	520	U
95-95-4	2,4,5-Trichlorophenol	1300	U
88-06-2	2,4,6-Trichlorophenol	520	U
86-74-8	Carbazole	520	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 007

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FP102
Dilution factor: 1
Moisture %:36

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1218

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALDOL CONDENSATION	3.3621	1600	JA
	UNKNOWN	3.8603	160	J
	UNKNOWN KETONE	4.0141	250	JB
	UNKNOWN	4.4683	530	J
	UNKNOWN	4.7248	140	JB
	UNKNOWN	4.9372	130	J
	UNKNOWN	16.029	160	J
	UNKNOWN	17.37	230	J
	UNKNOWN	17.443	170	J
	UNKNOWN BRANCHED ALKANE	18.175	120	J
	UNKNOWN BRANCHED ALKANE	19.274	150	J
	UNKNOWN	19.414	110	J
	UNKNOWN KETONE	20.923	2000	J
	UNKNOWN	21.494	140	J
	UNKNOWN	22.725	870	J

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

NPSD101218

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133007

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 36 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5.2	U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	27	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7	U
8001-35-2	Toxaphene	270	U
12674-11-2	Aroclor-1016	52	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	52	U
53469-21-9	Aroclor-1242	52	U
12672-29-6	Aroclor-1248	52	U
11097-69-1	Aroclor-1254	52	U
11096-82-5	Aroclor-1260	52	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NC

NPDUP05

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133009

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 27 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

10-1218

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FP

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _63.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	12500		*	P
7440-36-0	Antimony_	0.44	U		P
7440-38-2	Arsenic__	2.0	B		P
7440-39-3	Barium___	24.8	B		P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium__	0.09	U		P
7440-70-2	Calcium__	128	B		P
7440-47-3	Chromium_	11.4			P
7440-48-4	Cobalt___	2.1	B		P
7440-50-8	Copper___	3.7	B	*	P
7439-89-6	Iron_____	6900			P
7439-92-1	Lead_____	6.5		E*	P
7439-95-4	Magnesium	902	B		P
7439-96-5	Manganese	30.7		*	P
7439-97-6	Mercury__	0.16	U		CV
7440-02-0	Nickel___	8.2	B		P
7440-09-7	Potassium	304	B		P
7782-49-2	Selenium_	1.2	B		P
7440-22-4	Silver___	0.94	U		P
7440-23-5	Sodium___	71.4	B		P
7440-28-0	Thallium_	1.2	U		P
7440-62-2	Vanadium_	19.0			P
7440-66-6	Zinc_____	14.4		E	P

Color Before: BROWN____ Clarity Before: _____ Texture: COARSE

Color After: BROWN____ Clarity After: _____ Artifacts: YES__

Comments:
NP-SD10-1218
C7F11013307
STONES_&_WATER

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DUP05

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FR

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _72.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9680		*	P
7440-36-0	Antimony	0.38	U		P
7440-38-2	Arsenic	1.7	B		P
7440-39-3	Barium	18.3	B		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	104	B		P
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt	1.7	B		P
7440-50-8	Copper	2.7	B	*	P
7439-89-6	Iron	5350			P
7439-92-1	Lead	4.1		E*	P
7439-95-4	Magnesium	632	B		P
7439-96-5	Manganese	22.2		*	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	12.4			P
7440-09-7	Potassium	248	B		P
7782-49-2	Selenium	0.73	B		P
7440-22-4	Silver	0.82	U		P
7440-23-5	Sodium	44.2	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	15.2			P
7440-66-6	Zinc	12.2		E	P

Color Before: BROWN____ Clarity Before: _____ Texture: COARS

Color After: BROWN____ Clarity After: _____ Artifacts: YES__

Comments:

NP-DUP05

C7F11013309

STONES

FORM I - IN ILM03.

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 008

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FQ102
Dilution factor: 1
Moisture %:24

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	440	U
208-96-8	Acenaphthylene	440	U
120-12-7	Anthracene	440	U
56-55-3	Benzo(a)anthracene	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
191-24-2	Benzo(ghi)perylene	440	U
50-32-8	Benzo(a)pyrene	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
111-44-4	bis(2-Chloroethyl) ether	440	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	440	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**150**	**J**
101-55-3	4-Bromophenyl phenyl ether	440	U
85-68-7	Butyl benzyl phthalate	440	U
106-47-8	4-Chloroaniline	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-58-7	2-Chloronaphthalene	440	U
95-57-8	2-Chlorophenol	440	U
7005-72-3	4-Chlorophenyl phenyl ether	440	U
218-01-9	Chrysene	440	U
53-70-3	Dibenz(a,h)anthracene	440	U
132-64-9	Dibenzofuran	440	U
84-74-2	Di-n-butyl phthalate	440	U
95-50-1	1,2-Dichlorobenzene	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
120-83-2	2,4-Dichlorophenol	440	U
84-66-2	Diethyl phthalate	440	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 008

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FQ102
Dilution factor: 1
Moisture %: 24

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	440	U
131-11-3	Dimethyl phthalate	440	U
117-84-0	Di-n-octyl phthalate	440	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
51-28-5	2,4-Dinitrophenol	1100	U
121-14-2	2,4-Dinitrotoluene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
206-44-0	Fluoranthene	440	U
86-73-7	Fluorene	440	U
118-74-1	Hexachlorobenzene	440	U
87-68-3	Hexachlorobutadiene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
67-72-1	Hexachloroethane	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
78-59-1	Isophorone	440	U
91-57-6	2-Methylnaphthalene	440	U
95-48-7	2-Methylphenol	440	U
106-44-5	4-Methylphenol	440	U
91-20-3	Naphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	440	U
88-75-5	2-Nitrophenol	440	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	440	U
86-30-6	N-Nitrosodiphenylamine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 008

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FQ102
Dilution factor: 1
Moisture %: 24

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	440	U
129-00-0	Pyrene	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	440	U
86-74-8	Carbazole	440	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 008

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FQ102
Dilution factor: 1
Moisture %:24

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD10-1824

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALDOL CONDENSATION	3.5171	1200	JA
	UNKNOWN BRANCHED ALKANE	4.0372	1100	J
1740-19-8	1-Phenanthrenecarboxylic aci	14.902	200	JN
	UNKNOWN	15.627	280	J
	UNKNOWN	16.001	200	J
	UNKNOWN KETONE	20.909	170	J
	UNKNOWN	22.719	980	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 009

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FR102
Dilution factor: 1
Moisture %: 27

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-DUP05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	450	U
208-96-8	Acenaphthylene	450	U
120-12-7	Anthracene	450	U
56-55-3	Benzo(a)anthracene	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
191-24-2	Benzo(ghi)perylene	450	U
50-32-8	Benzo(a)pyrene	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
111-44-4	bis(2-Chloroethyl) ether	450	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	450	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**100**	**J**
101-55-3	4-Bromophenyl phenyl ether	450	U
85-68-7	Butyl benzyl phthalate	450	U
106-47-8	4-Chloroaniline	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-58-7	2-Chloronaphthalene	450	U
95-57-8	2-Chlorophenol	450	U
7005-72-3	4-Chlorophenyl phenyl ether	450	U
218-01-9	Chrysene	450	U
53-70-3	Dibenz(a,h)anthracene	450	U
132-64-9	Dibenzofuran	450	U
84-74-2	Di-n-butyl phthalate	450	U
95-50-1	1,2-Dichlorobenzene	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
120-83-2	2,4-Dichlorophenol	450	U
84-66-2	Diethyl phthalate	450	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 009

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FR102
Dilution factor: 1
Moisture %: 27

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-DUP05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	450	U
131-11-3	Dimethyl phthalate	450	U
117-84-0	Di-n-octyl phthalate	450	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
51-28-5	2,4-Dinitrophenol	1100	U
121-14-2	2,4-Dinitrotoluene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
206-44-0	Fluoranthene	450	U
86-73-7	Fluorene	450	U
118-74-1	Hexachlorobenzene	450	U
87-68-3	Hexachlorobutadiene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
67-72-1	Hexachloroethane	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
78-59-1	Isophorone	450	U
91-57-6	2-Methylnaphthalene	450	U
95-48-7	2-Methylphenol	450	U
106-44-5	4-Methylphenol	450	U
91-20-3	Naphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	450	U
88-75-5	2-Nitrophenol	450	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	450	U
86-30-6	N-Nitrosodiphenylamine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 009

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FR102
Dilution factor: 1
Moisture %: 27

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-DUP05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	450	U
129-00-0	Pyrene	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	450	U
86-74-8	Carbazole	450	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 009

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FR102
Dilution factor: 1
Moisture %: 27

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-DUP05

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALDOL CONDENSATION	3.3353	1500	JA
	UNKNOWN KETONE	4.0093	250	JB
	UNKNOWN KETONE	4.1192	96	J
	UNKNOWN	4.4635	310	J
	UNKNOWN	4.5734	130	J
	UNKNOWN	4.6247	160	J
	UNKNOWN	4.7273	110	J
	UNKNOWN BRANCHED ALKANE	16.207	140	J
	UNKNOWN	16.288	120	J
	UNKNOWN BRANCHED ALKANE	17.606	350	J
	UNKNOWN	17.694	230	J
	UNKNOWN	17.738	210	J
	UNKNOWN	17.848	340	J
	UNKNOWN BRANCHED ALKANE	18.185	97	J
	UNKNOWN	19.416	170	J
	UNKNOWN	19.651	110	J
	UNKNOWN KETONE	20.933	1200	J
	UNKNOWN	22.281	130	J
	UNKNOWN	22.764	3500	J

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

NPSD101824

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133008

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 24 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

10-1824

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FQ

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _75.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	10700		*	P
7440-36-0	Antimony_	0.37	U		P
7440-38-2	Arsenic__	2.3	B		P
7440-39-3	Barium___	25.0	B		P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium__	0.08	U		P
7440-70-2	Calcium__	115	B		P
7440-47-3	Chromium_	10.8			P
7440-48-4	Cobalt___	2.4	B		P
7440-50-8	Copper___	3.9	B	*	P
7439-89-6	Iron_____	8020			P
7439-92-1	Lead_____	4.7		E*	P
7439-95-4	Magnesium	1010	B		P
7439-96-5	Manganese	34.6		*	P
7439-97-6	Mercury__	0.13	U		CV
7440-02-0	Nickel___	6.9	B		P
7440-09-7	Potassium	260	B		P
7782-49-2	Selenium_	0.77	B		P
7440-22-4	Silver___	0.79	U		P
7440-23-5	Sodium___	46.4	B		P
7440-28-0	Thallium_	0.98	U		P
7440-62-2	Vanadium_	17.6			P
7440-66-6	Zinc_____	14.6		E	P

Color Before: BROWN____ Clarity Before: _____ Texture: COARS

Color After: BROWN____ Clarity After: _____ Artifacts: YES__

Comments:
NP-SD10-1824
C7F11013308
STONES

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FM102
Dilution factor: 1
Moisture %:14

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD11-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	380	U
208-96-8	Acenaphthylene	380	U
120-12-7	Anthracene	380	U
56-55-3	Benzo(a)anthracene	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
191-24-2	Benzo(ghi)perylene	380	U
50-32-8	Benzo(a)pyrene	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
111-44-4	bis(2-Chloroethyl) ether	380	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	380	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**95**	**J**
101-55-3	4-Bromophenyl phenyl ether	380	U
85-68-7	Butyl benzyl phthalate	380	U
106-47-8	4-Chloroaniline	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-58-7	2-Chloronaphthalene	380	U
95-57-8	2-Chlorophenol	380	U
7005-72-3	4-Chlorophenyl phenyl ether	380	U
218-01-9	Chrysene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
132-64-9	Dibenzofuran	380	U
84-74-2	Di-n-butyl phthalate	380	U
95-50-1	1,2-Dichlorobenzene	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
120-83-2	2,4-Dichlorophenol	380	U
84-66-2	Diethyl phthalate	380	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FM102
Dilution factor: 1
Moisture %: 14

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD11-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	380	U
131-11-3	Dimethyl phthalate	380	U
117-84-0	Di-n-octyl phthalate	380	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
51-28-5	2,4-Dinitrophenol	960	U
121-14-2	2,4-Dinitrotoluene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
206-44-0	Fluoranthene	380	U
86-73-7	Fluorene	380	U
118-74-1	Hexachlorobenzene	380	U
87-68-3	Hexachlorobutadiene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
67-72-1	Hexachloroethane	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
78-59-1	Isophorone	380	U
91-57-6	2-Methylnaphthalene	380	U
95-48-7	2-Methylphenol	380	U
106-44-5	4-Methylphenol	380	U
91-20-3	Naphthalene	380	U
88-74-4	2-Nitroaniline	960	U
99-09-2	3-Nitroaniline	960	U
100-01-6	4-Nitroaniline	960	U
98-95-3	Nitrobenzene	380	U
88-75-5	2-Nitrophenol	380	U
100-02-7	4-Nitrophenol	960	U
621-64-7	N-Nitrosodi-n-propylamine	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	380	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FM102
Dilution factor: 1
Moisture %: 14

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD11-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	380	U
129-00-0	Pyrene	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
95-95-4	2,4,5-Trichlorophenol	960	U
88-06-2	2,4,6-Trichlorophenol	380	U
86-74-8	Carbazole	380	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FM102
Dilution factor: 1
Moisture %: 14

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD11-1218

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	3.2227	270	J
	UNKNOWN ALDOL CONDENSATION	3.4058	1100	JA
	UNKNOWN	3.7355	220	J
	UNKNOWN	3.8894	2100	J
	UNKNOWN	4.0212	150	JB
	UNKNOWN	4.4608	190	JB
	UNKNOWN	4.7246	120	JB
	UNKNOWN	6.0433	110	J
57-10-3	Hexadecanoic acid	11.882	82	JN
	UNKNOWN	16.029	120	J
	UNKNOWN	17.596	85	J
	UNKNOWN	17.853	83	J
	UNKNOWN BRANCHED ALKANE	18.183	100	J
	UNKNOWN	18.923	110	J
	UNKNOWN BRANCHED ALKANE	19.282	140	J
	UNKNOWN	19.853	110	J
	UNKNOWN	22.718	150	J

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPSD111218

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133005

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 14 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

11-1218

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FM

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2440		*	P
7440-36-0	Antimony	0.32	U		P
7440-38-2	Arsenic	1.2	B		P
7440-39-3	Barium	4.3	B		P
7440-41-7	Beryllium	0.14	B		P
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium	220	B		P
7440-47-3	Chromium	9.8			P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	2.9	B	*	P
7439-89-6	Iron	2910			P
7439-92-1	Lead	4.6		E*	P
7439-95-4	Magnesium	227	B		P
7439-96-5	Manganese	16.3		*	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	10			P
7440-09-7	Potassium	171	B		P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.69	U		P
7440-23-5	Sodium	28.3	B		P
7440-28-0	Thallium	0.86	U		P
7440-62-2	Vanadium	6.6	B		P
7440-66-6	Zinc	7.1		E	P

Color Before: BROWN____ Clarity Before: _____ Texture: COAR

Color After: BROWN____ Clarity After: _____ Artifacts: YES_

Comments:
NP-SD11-1218
C7F11013305
STONES

FORM I - IN ILM03.0

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FN102
Dilution factor: 1
Moisture %: 19

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD11-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	410	U
208-96-8	Acenaphthylene	410	U
120-12-7	Anthracene	410	U
56-55-3	Benzo(a)anthracene	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
191-24-2	Benzo(ghi)perylene	410	U
50-32-8	Benzo(a)pyrene	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
111-44-4	bis(2-Chloroethyl) ether	410	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**120**	**J**
101-55-3	4-Bromophenyl phenyl ether	410	U
85-68-7	**Butyl benzyl phthalate**	**56**	**J**
106-47-8	4-Chloroaniline	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-58-7	2-Chloronaphthalene	410	U
95-57-8	2-Chlorophenol	410	U
7005-72-3	4-Chlorophenyl phenyl ether	410	U
218-01-9	Chrysene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U
132-64-9	Dibenzofuran	410	U
84-74-2	Di-n-butyl phthalate	410	U
95-50-1	1,2-Dichlorobenzene	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
120-83-2	2,4-Dichlorophenol	410	U
84-66-2	Diethyl phthalate	410	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FN102
Dilution factor: 1
Moisture %: 19

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD11-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	410	U
131-11-3	Dimethyl phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
51-28-5	2,4-Dinitrophenol	1000	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
206-44-0	Fluoranthene	410	U
86-73-7	Fluorene	410	U
118-74-1	Hexachlorobenzene	410	U
87-68-3	Hexachlorobutadiene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
67-72-1	Hexachloroethane	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
78-59-1	Isophorone	410	U
91-57-6	2-Methylnaphthalene	410	U
95-48-7	2-Methylphenol	410	U
106-44-5	4-Methylphenol	410	U
91-20-3	Naphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
99-09-2	3-Nitroaniline	1000	U
100-01-6	4-Nitroaniline	1000	U
98-95-3	Nitrobenzene	410	U
88-75-5	2-Nitrophenol	410	U
100-02-7	4-Nitrophenol	1000	U
621-64-7	N-Nitrosodi-n-propylamine	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR319

Matrix: (soil/water) SOLID Lab Sample ID:C7F110133 006
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 06/11/97
Work Order: CA3FN102 Date Extracted:06/17/97
Dilution factor: 1 Date Analyzed: 07/03/97
Moisture %:19

QC Batch: 7168161

Client Sample Id: NP-SD11-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	410	U
129-00-0	Pyrene	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
88-06-2	2,4,6-Trichlorophenol	410	U
86-74-8	Carbazole	410	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FN102
Dilution factor: 1
Moisture %: 19

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD11-1824

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	3.1965	170	J
	UNKNOWN ACID	3.2478	270	J
	UNKNOWN ALDOL CONDENSATION	3.3577	2000	JA
	UNKNOWN	3.724	130	J
	UNKNOWN	3.8706	810	J
	UNKNOWN KETONE	4.0171	200	JB
	UNKNOWN	4.464	340	JB
	UNKNOWN	4.6252	140	JB
57-10-3	Hexadecanoic acid	11.878	88	JN
	UNKNOWN	16.625	110	J
	UNKNOWN	17.849	130	J
	UNKNOWN BRANCHED ALKANE	18.178	92	J
	UNKNOWN BRANCHED ALKANE	19.27	95	J

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

NPSD111824

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133006

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 19 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

11-1824

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FN

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _80.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	3700		*	P
7440-36-0	Antimony_	0.35	U		P
7440-38-2	Arsenic__	1.3	B		P
7440-39-3	Barium___	7.2	B		P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium__	0.42	B		P
7440-70-2	Calcium__	922	B		P
7440-47-3	Chromium_	50.9			P
7440-48-4	Cobalt___	0.67	B		P
7440-50-8	Copper___	7.4		*	P
7439-89-6	Iron_____	3380			P
7439-92-1	Lead_____	4.9		E*	P
7439-95-4	Magnesium	374	B		P
7439-96-5	Manganese	25.7		*	P
7439-97-6	Mercury__	0.12	U		CV
7440-02-0	Nickel___	6.7	B		P
7440-09-7	Potassium	149	B		P
7782-49-2	Selenium_	0.64	U		P
7440-22-4	Silver___	0.74	U		P
7440-23-5	Sodium___	312	B		P
7440-28-0	Thallium_	0.92	U		P
7440-62-2	Vanadium_	10.2	B		P
7440-66-6	Zinc_____	15.4		E	P

Color Before: BROWN____ Clarity Before: _____ Texture: COARS_

Color After: BROWN____ Clarity After: _____ Artifacts: YES_

Comments:
NP-SD11-1824
C7F11013306
STONES

0086

FORM I - IN ILM03.1

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FK102
Dilution factor: 1
Moisture %: 21

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD12-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	420	U
208-96-8	Acenaphthylene	420	U
120-12-7	Anthracene	420	U
56-55-3	Benzo(a)anthracene	420	U
205-99-2	Benzo(b)fluoranthene	420	U
207-08-9	Benzo(k)fluoranthene	420	U
191-24-2	Benzo(ghi)perylene	420	U
50-32-8	Benzo(a)pyrene	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
111-44-4	bis(2-Chloroethyl) ether	420	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	420	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**110**	**J**
101-55-3	4-Bromophenyl phenyl ether	420	U
85-68-7	Butyl benzyl phthalate	420	U
106-47-8	4-Chloroaniline	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-58-7	2-Chloronaphthalene	420	U
95-57-8	2-Chlorophenol	420	U
7005-72-3	4-Chlorophenyl phenyl ether	420	U
218-01-9	Chrysene	420	U
53-70-3	Dibenz(a,h)anthracene	420	U
132-64-9	Dibenzofuran	420	U
84-74-2	Di-n-butyl phthalate	420	U
95-50-1	1,2-Dichlorobenzene	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
120-83-2	2,4-Dichlorophenol	420	U
84-66-2	Diethyl phthalate	420	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FK102
Dilution factor: 1
Moisture %: 21

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD12-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	420	U
131-11-3	Dimethyl phthalate	420	U
117-84-0	Di-n-octyl phthalate	420	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
51-28-5	2,4-Dinitrophenol	1000	U
121-14-2	2,4-Dinitrotoluene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
206-44-0	Fluoranthene	420	U
86-73-7	Fluorene	420	U
118-74-1	Hexachlorobenzene	420	U
87-68-3	Hexachlorobutadiene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
67-72-1	Hexachloroethane	420	U
193-39-5	Indeno(1,2,3-cd)pyrene	420	U
78-59-1	Isophorone	420	U
91-57-6	2-Methylnaphthalene	420	U
95-48-7	2-Methylphenol	420	U
106-44-5	4-Methylphenol	420	U
91-20-3	Naphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
99-09-2	3-Nitroaniline	1000	U
100-01-6	4-Nitroaniline	1000	U
98-95-3	Nitrobenzene	420	U
88-75-5	2-Nitrophenol	420	U
100-02-7	4-Nitrophenol	1000	U
621-64-7	N-Nitrosodi-n-propylamine	420	U
86-30-6	N-Nitrosodiphenylamine	420	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	420	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g

Date Received: 06/11/97

Work Order: CA3FK102

Date Extracted:06/17/97

Dilution factor: 1

Date Analyzed: 07/03/97

Moisture %:21

QC Batch: 7168161

Client Sample Id: NP-SD12-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	420	U
129-00-0	Pyrene	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
88-06-2	2,4,6-Trichlorophenol	420	U
86-74-8	Carbazole	420	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FK102
Dilution factor: 1
Moisture %: 21

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD12-1218

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALDOL CONDENSATION	3.3121	1400	JA
	UNKNOWN	3.6931	130	J
	UNKNOWN	3.8543	1400	J
	UNKNOWN KETONE	4.0008	180	JB
	UNKNOWN	4.4624	400	JB
	UNKNOWN	4.7261	150	JB
	UNKNOWN	4.9239	87	J
57-10-3	Hexadecanoic acid	11.876	130	JN
	UNKNOWN	15.869	190	J
	UNKNOWN BRANCHED ALKANE	18.177	190	J
	UNKNOWN BRANCHED ALKANE	19.276	110	J
	UNKNOWN	19.408	88	J
	UNKNOWN	20.096	110	J
	UNKNOWN	20.704	86	J
	UNKNOWN	20.939	84	J
	UNKNOWN	21.085	120	J
	UNKNOWN	21.261	89	J
	UNKNOWN	21.899	210	J

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

NPSD121218

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133003

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

12-1218

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FK

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3230		*	P
7440-36-0	Antimony	0.35	U		P
7440-38-2	Arsenic	0.89	B		P
7440-39-3	Barium	5.8	B		P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	229	B		P
7440-47-3	Chromium	5.3			P
7440-48-4	Cobalt	0.96	B		P
7440-50-8	Copper	3.2	B	*	P
7439-89-6	Iron	3240			P
7439-92-1	Lead	3.0		E*	P
7439-95-4	Magnesium	312	B		P
7439-96-5	Manganese	30.0		*	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	15.8			P
7440-09-7	Potassium	159	B		P
7782-49-2	Selenium	0.65	U		P
7440-22-4	Silver	0.75	U		P
7440-23-5	Sodium	36.1	B		P
7440-28-0	Thallium	0.93	U		P
7440-62-2	Vanadium	7.2	B		P
7440-66-6	Zinc	8.7		E	P

Color Before: BROWN____ Clarity Before: _____ Texture: COARSE

Color After: BROWN____ Clarity After: _____ Artifacts: YES_

Comments:
NP-SD12-1218
C7F110133003
STONES

FORM I - IN

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FL102
Dilution factor: 1
Moisture %:20

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD12-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	410	U
208-96-8	Acenaphthylene	410	U
120-12-7	Anthracene	410	U
56-55-3	Benzo(a)anthracene	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
191-24-2	Benzo(ghi)perylene	410	U
50-32-8	Benzo(a)pyrene	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
111-44-4	bis(2-Chloroethyl) ether	410	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**81**	**J**
101-55-3	4-Bromophenyl phenyl ether	410	U
85-68-7	Butyl benzyl phthalate	410	U
106-47-8	4-Chloroaniline	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-58-7	2-Chloronaphthalene	410	U
95-57-8	2-Chlorophenol	410	U
7005-72-3	4-Chlorophenyl phenyl ether	410	U
218-01-9	Chrysene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U
132-64-9	Dibenzofuran	410	U
84-74-2	Di-n-butyl phthalate	410	U
95-50-1	1,2-Dichlorobenzene	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
120-83-2	2,4-Dichlorophenol	410	U
84-66-2	Diethyl phthalate	410	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FL102
Dilution factor: 1
Moisture %: 20

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD12-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	410	U
131-11-3	Dimethyl phthalate	410	U
117-84-0	Di-n-octyl phthalate	410	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
51-28-5	2,4-Dinitrophenol	1000	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
206-44-0	Fluoranthene	410	U
86-73-7	Fluorene	410	U
118-74-1	Hexachlorobenzene	410	U
87-68-3	Hexachlorobutadiene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
67-72-1	Hexachloroethane	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
78-59-1	Isophorone	410	U
91-57-6	2-Methylnaphthalene	410	U
95-48-7	2-Methylphenol	410	U
106-44-5	4-Methylphenol	410	U
91-20-3	Naphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
99-09-2	3-Nitroaniline	1000	U
100-01-6	4-Nitroaniline	1000	U
98-95-3	Nitrobenzene	410	U
88-75-5	2-Nitrophenol	410	U
100-02-7	4-Nitrophenol	1000	U
621-64-7	N-Nitrosodi-n-propylamine	410	U
86-30-6	N-Nitrosodiphenylamine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FL102
Dilution factor: 1
Moisture %:20

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD12-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	410	U
129-00-0	Pyrene	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
88-06-2	2,4,6-Trichlorophenol	410	U
86-74-8	Carbazole	410	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FL102
Dilution factor: 1
Moisture %:20

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD12-1824

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALDOL CONDENSATION	3.3482	1700	JA
	UNKNOWN	3.7145	180	J
	UNKNOWN	3.8757	1700	J
	UNKNOWN KETONE	4.0149	190	JB
	UNKNOWN	4.4618	400	JB
	UNKNOWN	4.7329	150	JB
	UNKNOWN	4.9233	90	J
	UNKNOWN	5.0625	94	J
	UNKNOWN	6.0369	92	J
	UNKNOWN	15.868	210	J
	UNKNOWN	16.623	130	J
	UNKNOWN	17.847	91	J
	UNKNOWN BRANCHED ALKANE	19.275	98	J
	UNKNOWN	22.719	91	J

FORM I - TIC

B

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

NPSD121824

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133004

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 20 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/30/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

12-1824

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FL

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	4440	_	*	P_
7440-36-0	Antimony_	0.35	U		P_
7440-38-2	Arsenic__	1.3	B		P_
7440-39-3	Barium___	8.1	B		P_
7440-41-7	Beryllium	0.12	B		P_
7440-43-9	Cadmium__	0.08	U		P_
7440-70-2	Calcium__	331	B		P_
7440-47-3	Chromium_	6.4	_		P_
7440-48-4	Cobalt___	1.1	B		P_
7440-50-8	Copper___	2.9	B	*	P_
7439-89-6	Iron____	4170	_		P_
7439-92-1	Lead____	3.4	_	E*	P_
7439-95-4	Magnesium	374	B		P_
7439-96-5	Manganese	29.8	_	*	P_
7439-97-6	Mercury__	0.12	U		CV
7440-02-0	Nickel___	2.4	U		P_
7440-09-7	Potassium	118	B		P_
7782-49-2	Selenium_	0.65	U		P_
7440-22-4	Silver___	0.75	U		P_
7440-23-5	Sodium___	36.7	B		P_
7440-28-0	Thallium_	0.92	U		P_
7440-62-2	Vanadium_	8.8	B		P_
7440-66-6	Zinc____	8.1	_	E	P_

Color Before: BROWN____ Clarity Before: _____ Texture: COARS_

Color After: BROWN____ Clarity After: _____ Artifacts: YES__

Comments:

NP-SD12-1218

C7F110133004

STONES

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FH102
Dilution factor: 1
Moisture %:23

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	430	U
208-96-8	Acenaphthylene	430	U
120-12-7	Anthracene	430	U
56-55-3	Benzo(a)anthracene	430	U
205-99-2	Benzo(b)fluoranthene	59	J
207-08-9	Benzo(k)fluoranthene	50	J
191-24-2	Benzo(ghi)perylene	430	U
50-32-8	Benzo(a)pyrene	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
111-44-4	bis(2-Chloroethyl) ether	430	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	430	U
117-81-7	bis(2-Ethylhexyl) phthalate	120	J
101-55-3	4-Bromophenyl phenyl ether	430	U
85-68-7	Butyl benzyl phthalate	64	J
106-47-8	4-Chloroaniline	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-58-7	2-Chloronaphthalene	430	U
95-57-8	2-Chlorophenol	430	U
7005-72-3	4-Chlorophenyl phenyl ether	430	U
218-01-9	Chrysene	61	J
53-70-3	Dibenz(a,h)anthracene	430	U
132-64-9	Dibenzofuran	430	U
84-74-2	Di-n-butyl phthalate	430	U
95-50-1	1,2-Dichlorobenzene	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
120-83-2	2,4-Dichlorophenol	430	U
84-66-2	Diethyl phthalate	430	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FH102
Dilution factor: 1
Moisture %: 23

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	430	U
131-11-3	Dimethyl phthalate	430	U
117-84-0	Di-n-octyl phthalate	430	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
51-28-5	2,4-Dinitrophenol	1100	U
121-14-2	2,4-Dinitrotoluene	430	U
606-20-2	2,6-Dinitrotoluene	430	U
206-44-0	**Fluoranthene**	**62**	**J**
86-73-7	Fluorene	430	U
118-74-1	Hexachlorobenzene	430	U
87-68-3	Hexachlorobutadiene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
67-72-1	Hexachloroethane	430	U
193-39-5	Indeno(1,2,3-cd)pyrene	430	U
78-59-1	Isophorone	430	U
91-57-6	2-Methylnaphthalene	430	U
95-48-7	2-Methylphenol	430	U
106-44-5	4-Methylphenol	430	U
91-20-3	Naphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	430	U
88-75-5	2-Nitrophenol	430	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	430	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR319

Lab Sample ID:C7F110133 001

Matrix: (soil/water) SOLID
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FH102
Dilution factor: 1
Moisture %:23

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1218

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	430	U
129-00-0	Pyrene	64	J
120-82-1	1,2,4-Trichlorobenzene	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	430	U
86-74-8	Carbazole	430	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FH102
Dilution factor: 1
Moisture %:23

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1218

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALDOL CONDENSATION	3.362	1400	JA
	UNKNOWN	3.8675	100	J
	UNKNOWN KETONE	4.014	220	JB
	UNKNOWN	4.4609	270	JB
	UNKNOWN	4.6221	140	JB
	UNKNOWN	4.7247	110	J
	UNKNOWN	4.9225	110	J
	UNKNOWN	5.0544	140	J
57-10-3	Hexadecanoic acid	11.882	160	JN
	UNKNOWN BRANCHED ALKANE	15.926	91	J
	UNKNOWN	15.977	92	J
	UNKNOWN	19.414	110	J
	UNKNOWN	20.937	110	J
	UNKNOWN	21.267	87	J
	UNKNOWN	21.37	130	J
	UNKNOWN	21.897	190	J
	UNKNOWN	22.718	350	J

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

NPSD131218

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133001

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 23 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/29/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	11	
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.3	U
7421-93-4	Endrin aldehyde	6.0	
5103-71-9	alpha-Chlordane	2.5	
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	87	
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	130	

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

13-1218

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FH

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _77.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	2470		*	P
7440-36-0	Antimony_	0.45	B		P
7440-38-2	Arsenic__	2.0	B		P
7440-39-3	Barium___	20.4	B		P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium__	0.49	B		P
7440-70-2	Calcium__	314	B		P
7440-47-3	Chromium_	29.0			P
7440-48-4	Cobalt___	0.75	B		P
7440-50-8	Copper___	25.3		*	P
7439-89-6	Iron_____	2570			P
7439-92-1	Lead_____	11.7		E*	P
7439-95-4	Magnesium	313	B		P
7439-96-5	Manganese	12.0		*	P
7439-97-6	Mercury__	0.13	U		CV
7440-02-0	Nickel___	12.2			P
7440-09-7	Potassium	146	B		P
7782-49-2	Selenium_	0.67	U		P
7440-22-4	Silver___	1.1	B		P
7440-23-5	Sodium___	41.8	B		P
7440-28-0	Thallium_	0.96	U		P
7440-62-2	Vanadium_	6.6	B		P
7440-66-6	Zinc_____	29.7		E	P

Color Before: BROWN____ Clarity Before: _____ Texture: COARS_

Color After: BROWN____ Clarity After: _____ Artifacts: YES__

Comments:
NP-SD13-1218
C7F110133001
STONES

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FJ102
Dilution factor: 1
Moisture %: 26

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	450	U
208-96-8	Acenaphthylene	450	U
120-12-7	Anthracene	450	U
56-55-3	Benzo(a)anthracene	450	U
205-99-2	**Benzo(b)fluoranthene**	**55**	**J**
207-08-9	Benzo(k)fluoranthene	450	U
191-24-2	Benzo(ghi)perylene	450	U
50-32-8	Benzo(a)pyrene	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
111-44-4	bis(2-Chloroethyl) ether	450	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	450	U
117-81-7	**bis(2-Ethylhexyl) phthalate**	**120**	**J**
101-55-3	4-Bromophenyl phenyl ether	450	U
85-68-7	Butyl benzyl phthalate	450	U
106-47-8	4-Chloroaniline	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-58-7	2-Chloronaphthalene	450	U
95-57-8	2-Chlorophenol	450	U
7005-72-3	4-Chlorophenyl phenyl ether	450	U
218-01-9	**Chrysene**	**51**	**J**
53-70-3	Dibenz(a,h)anthracene	450	U
132-64-9	Dibenzofuran	450	U
84-74-2	Di-n-butyl phthalate	450	U
95-50-1	1,2-Dichlorobenzene	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
120-83-2	2,4-Dichlorophenol	450	U
84-66-2	Diethyl phthalate	450	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FJ102
Dilution factor: 1
Moisture %: 26

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	450	U
131-11-3	Dimethyl phthalate	450	U
117-84-0	Di-n-octyl phthalate	450	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
51-28-5	2,4-Dinitrophenol	1100	U
121-14-2	2,4-Dinitrotoluene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
206-44-0	Fluoranthene	450	U
86-73-7	Fluorene	450	U
118-74-1	Hexachlorobenzene	450	U
87-68-3	Hexachlorobutadiene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
67-72-1	Hexachloroethane	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
78-59-1	Isophorone	450	U
91-57-6	2-Methylnaphthalene	450	U
95-48-7	2-Methylphenol	450	U
106-44-5	4-Methylphenol	450	U
91-20-3	Naphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
99-09-2	3-Nitroaniline	1100	U
100-01-6	4-Nitroaniline	1100	U
98-95-3	Nitrobenzene	450	U
88-75-5	2-Nitrophenol	450	U
100-02-7	4-Nitrophenol	1100	U
621-64-7	N-Nitrosodi-n-propylamine	450	U
86-30-6	N-Nitrosodiphenylamine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID: C7F110133 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FJ102
Dilution factor: 1
Moisture %: 26

Date Received: 06/11/97
Date Extracted: 06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1824

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	450	U
129-00-0	Pyrene	48	J
120-82-1	1,2,4-Trichlorobenzene	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
88-06-2	2,4,6-Trichlorophenol	450	U
86-74-8	Carbazole	450	U

0011

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR319

Matrix: (soil/water) SOLID

Lab Sample ID:C7F110133 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CA3FJ102
Dilution factor: 1
Moisture %:26

Date Received: 06/11/97
Date Extracted:06/17/97
Date Analyzed: 07/03/97

QC Batch: 7168161

Client Sample Id: NP-SD13-1824

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN ALDOL CONDENSATION	3.3549	1600	JA
	UNKNOWN	3.8604	230	J
	UNKNOWN KETONE	4.0143	260	JB
	UNKNOWN	4.4611	360	JB
	UNKNOWN	4.7249	110	JB
	UNKNOWN	4.9227	120	J
	UNKNOWN	5.0546	110	J
57-10-3	Hexadecanoic acid	11.875	130	JN
	UNKNOWN	12.168	110	J
	UNKNOWN	18.176	99	J
	UNKNOWN	19.414	150	J
	UNKNOWN	20.916	99	J
	UNKNOWN	21.055	180	J
	UNKNOWN	21.275	130	J
	UNKNOWN	21.385	450	J
	UNKNOWN	21.787	290	J
	UNKNOWN	21.905	520	J
	UNKNOWN	22.725	320	J

FORM I - TIC

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NPSD131824

Lab Name: QUANTERRA PITT Contract:

Lab Code: QPITT Case No.: NWIRP SAS No.: SDG No.: BR319

Matrix: (soil/water) SOIL Lab Sample ID: C7F110133002

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 26 decanted: (Y/N) N Date Received: 06/11/97

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/21/97

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 07/29/97

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	P
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	76	P
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

13-1824

Lab Name: QUANTERRA_PITTSBURGH_____ Contract: BROWN&ROOT

Lab Code: QESPA_ Case No.: 37524_ SAS No.: _____ SDG No.: BR319_

Matrix (soil/water): SOIL_ Lab Sample ID: CA3FJ

Level (low/med): LOW__ Date Received: 06/11/97

% Solids: _73.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1770	_	*	P_
7440-36-0	Antimony_	0.38	U		P_
7440-38-2	Arsenic__	1.0	B		P_
7440-39-3	Barium___	10.3	B		P_
7440-41-7	Beryllium	0.08	B		P_
7440-43-9	Cadmium__	0.32	B		P_
7440-70-2	Calcium__	465	B		P_
7440-47-3	Chromium_	47.8	_		P_
7440-48-4	Cobalt___	0.60	U		P_
7440-50-8	Copper___	14.6	_	*	P_
7439-89-6	Iron____	1710	_		P_
7439-92-1	Lead____	8.5	_	E*	P_
7439-95-4	Magnesium	166	B		P_
7439-96-5	Manganese	9.1	_	*	P_
7439-97-6	Mercury__	0.14	U		CV
7440-02-0	Nickel___	5.7	B		P_
7440-09-7	Potassium	111	B		P_
7782-49-2	Selenium_	0.70	U		P_
7440-22-4	Silver___	1.1	B		P_
7440-23-5	Sodium___	53.7	B		P_
7440-28-0	Thallium_	1.0	U		P_
7440-62-2	Vanadium_	4.2	B		P_
7440-66-6	Zinc____	21.4	_	E	P_

Color Before: BROWN____ Clarity Before: _____ Texture: COARSE

Color After: BROWN____ Clarity After: _____ Artifacts: YES_

Comments:
NP-SD13-1824
C7F110133002
STONES

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 022

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADG6101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW02S-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	**Acetone**	**250**	
71-43-2	Benzene	20	U
75-27-4	Bromodichloromethane	20	U
75-25-2	Bromoform	20	U
74-83-9	Bromomethane	20	U
78-93-3	**2-Butanone**	**69**	
75-15-0	Carbon disulfide	20	U
56-23-5	Carbon tetrachloride	20	U
108-90-7	Chlorobenzene	20	U
124-48-1	Dibromochloromethane	20	U
75-00-3	Chloroethane	20	U
67-66-3	Chloroform	20	U
74-87-3	Chloromethane	20	U
75-34-3	**1,1-Dichloroethane**	**58**	
107-06-2	1,2-Dichloroethane	20	U
75-35-4	1,1-Dichloroethene	20	U
540-59-0	**1,2-Dichloroethene (total)**	**78**	
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
100-41-4	**Ethylbenzene**	**8.7**	**J**
591-78-6	2-Hexanone	20	U
75-09-2	Methylene chloride	20	U
108-10-1	**4-Methyl-2-pentanone**	**14**	**J**
100-42-5	Styrene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
127-18-4	**Tetrachloroethene**	**3.7**	**J**
108-88-3	**Toluene**	**63**	
71-55-6	**1,1,1-Trichloroethane**	**2.8**	**J**

0055

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 022

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADG6101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW02S-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	20	U
79-01-6	Trichloroethene	19	J
75-01-4	Vinyl chloride	20	U
1330-20-7	Xylenes (total)	91	

0056

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR323

Matrix: (soil/water) WATER Lab Sample ID:C7F270122 022
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL Date Received: 06/27/97
Work Order: CADG6101 Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch:. 7183134

Client Sample Id: FT-MW02S-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
75-18-3	dimethyl sulfide	6.02	32	J
0-00-0	unknown alkane	19.23	30	J
0-00-0	unknown TRIMETHYLBENZENE	20.6	62	J
0-00-0	unknown trimethylbenzene	21.23	68	J
0-00-0	unknown trimethylbenzene	21.98	44	J
0-00-0	unknown alkane	22.08	44	J
0-00-0	unknown alkane	22.2	32	J
0-00-0	unknown ketone	22.35	54	J
0-00-0	unknown	22.53	52	J
0-00-0	unknown	23.23	70	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 015

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFW101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW05-S-062597

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 015

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFW101

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW05-S-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0035

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR323

Matrix: (soil/water) WATER Lab Sample ID:C7F270122 015
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL Date Received: 06/27/97
Work Order: CADFW101 Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW05-S-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0036

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K110109 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJJ101
Dilution factor: 1
Moisture %: NA

Date Received: 11/11/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW05-S

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K110109 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJJ101
Dilution factor: 1
Moisture %: NA

Date Received: 11/11/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW05-S

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K110109 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJJ101
Dilution factor: 1
Moisture %:NA

Date Received: 11/11/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW05-S

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0014

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 014

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CADFV101
Dilution factor: 1
Moisture %:NA

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW05-I-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	**1,1-Dichloroethane**	**1.2**	**J**
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
71-55-6	**1,1,1-Trichloroethane**	**1.0**	**J**

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 014

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CADFV101
Dilution factor: 1
Moisture %:NA

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW05-I-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0032

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 014

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CADFV101
Dilution factor: 1
Moisture %:NA

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW05-I-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1066-40-6	silanol, trimethyl	6.92	11	J

0033

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR344

Matrix: (soil/water) WATER Lab Sample ID:C7K120115 005
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL Date Received: 11/12/97
Work Order: CE0HC101 Date Extracted:11/14/97
Dilution factor: 1 Date Analyzed: 11/14/97
Moisture %:NA

QC Batch: 7318125

Client Sample Id: FT-MW05-I

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HC101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW05-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HC101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW05-I

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0031

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 012

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFR101

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW06-S-062597

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 012

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFR101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW06-S-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 012

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CADFR101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW06-S-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0027

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0H7101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW06-S

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0H7101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW06-S

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0021

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0H7101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW06-S

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0022

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 011

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFQ101

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW06-I-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	**Chloroform**	**1.4**	**J**
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
71-55-6	1,1,1-Trichloroethane	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 011

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFQ101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW06-I-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0021

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 011

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CADFQ101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW06-I-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0022

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HA101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW06-I

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HA101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW06-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0HA101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW06-I

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0028

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 013

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFT101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-DUP02-W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	**Chloroform**	**1.4**	**J**
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
71-55-6	1,1,1-Trichloroethane	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 013

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFT101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-DUP02-W

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 013

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Date Received: 06/27/97

Work Order: CADFT101

Date Extracted: 07/01/97

Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-DUP02-W

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0030

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0H9101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW07

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K120115 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0H9101
Dilution factor: 1
Moisture %: NA

Date Received: 11/12/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K120115 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE0H9101
Dilution factor: 1
Moisture %:NA

Date Received: 11/12/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW07

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0025

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 016

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFX101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW08-S-062597

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR323

Matrix: (soil/water) WATER Lab Sample ID:C7F270122 016
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL Date Received: 06/27/97
Work Order: CADFX101 Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW08-S-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0038

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 016

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADFX101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW08-S-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0039

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K110109 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJF101
Dilution factor: 1
Moisture %: NA

Date Received: 11/11/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW08-S

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

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K110109 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJF101
Dilution factor: 1
Moisture %: NA

Date Received: 11/11/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW08-S

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K110109 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJF101
Dilution factor: 1
Moisture %:NA

Date Received: 11/11/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW08-S

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
95-36-3	1,2,4-TRIMETHYLBENZENE OR IS	21.25	7.1	J
95-36-3	1,2,4-TRIMETHYLBENZENE OR IS	21.98	6.1	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 017

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADG0101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW08-I-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	**Chloroethane**	**91**	
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	**1,1-Dichloroethane**	**110**	
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	**1,2-Dichloroethene (total)**	**5.2**	**J**
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	**Ethylbenzene**	**2.0**	**J**
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
71-55-6	**1,1,1-Trichloroethane**	**13**	

0040

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 017

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADG0101

Date Received: 06/27/97
Date Extracted: 07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW08-I-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	**Xylenes (total)**	**13**	

0041

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID: C7F270122 017

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Date Received: 06/27/97

Work Order: CADG0101

Date Extracted: 07/01/97

Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FT-MW08-I-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
0-00-0	unknown trimethylbenzene	21.26	10	J
0-00-0	unknown trimethylbenzene	22	16	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K110109 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJH101
Dilution factor: 1
Moisture %:NA

Date Received: 11/11/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW08-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	**Chloroethane**	**30**	
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	**1,1-Dichloroethane**	**55**	
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	**1,2-Dichloroethene (total)**	**3.7**	**J**
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K110109 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJH101
Dilution factor: 1
Moisture %: NA

Date Received: 11/11/97
Date Extracted: 11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW08-I

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	**1,1,1-Trichloroethane**	**3.8**	**J**
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K110109 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CDXJH101
Dilution factor: 1
Moisture %:NA

Date Received: 11/11/97
Date Extracted:11/14/97
Date Analyzed: 11/14/97

QC Batch: 7318125

Client Sample Id: FT-MW08-I

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

0011

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 020

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CADG4101

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FD-MW07-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	**Chloroform**	**1.2**	**J**
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
71-55-6	1,1,1-Trichloroethane	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 020

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Work Order: CADG4101

Date Received: 06/27/97
Date Extracted:07/01/97
Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FD-MW07-062597

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0050

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR323

Matrix: (soil/water) WATER

Lab Sample ID:C7F270122 020

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL

Date Received: 06/27/97

Work Order: CADG4101

Date Extracted:07/01/97

Date Analyzed: 07/01/97

QC Batch: 7183134

Client Sample Id: FD-MW07-062597

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0051

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K150106 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE2ML101
Dilution factor: 1
Moisture %:NA

Date Received: 11/15/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-MW07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	Benzene	10	U
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	Ethylbenzene	10	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	**Tetrachloroethene**	**4.2**	**J**
108-88-3	Toluene	10	U

0029

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR345

Matrix: (soil/water) WATER

Lab Sample ID:C7K150106 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE2ML101
Dilution factor: 1
Moisture %:NA

Date Received: 11/15/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-MW07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	**1,1,1-Trichloroethane**	**2.0**	**J**
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

0030

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR345

Matrix: (soil/water) WATER Lab Sample ID:C7K150106 006
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL Date Received: 11/15/97
Work Order: CE2ML101 Date Extracted:11/18/97
Dilution factor: 1 Date Analyzed: 11/18/97
Moisture %:NA

QC Batch: 7322109

Client Sample Id: FD-MW07

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

0031

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR325

Matrix: (soil/water) WATER

Lab Sample ID: C7G140140 009

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAMM3101
Dilution factor: 1
Moisture %: NA

Date Received: 07/12/97
Date Extracted: 07/17/97
Date Analyzed: 07/17/97

QC Batch: 7199113

Client Sample Id: GCIW-GW01

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

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR325

Matrix: (soil/water) WATER

Lab Sample ID: C7G140140 009

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAMM3101
Dilution factor: 1
Moisture %: NA

Date Received: 07/12/97
Date Extracted: 07/17/97
Date Analyzed: 07/17/97

QC Batch: 7199113

Client Sample Id: GCIW-GW01

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR325

Matrix: (soil/water) WATER

Lab Sample ID:C7G140140 009

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CAMM3101
Dilution factor: 1
Moisture %:NA

Date Received: 07/12/97
Date Extracted:07/17/97
Date Analyzed: 07/17/97

QC Batch: 7199113

Client Sample Id: GCIW-GW01

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 1 / mL
Work Order: CE17K101
Dilution factor: 5
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	50	U
71-43-2	Benzene	50	U
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
78-93-3	2-Butanone	50	U
75-15-0	Carbon disulfide	50	U
56-23-5	Carbon tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
124-48-1	Dibromochloromethane	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
75-34-3	1,1-Dichloroethane	50	U
107-06-2	1,2-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
100-41-4	**Ethylbenzene**	**480**	
591-78-6	2-Hexanone	50	U
75-09-2	Methylene chloride	50	U
108-10-1	4-Methyl-2-pentanone	50	U
100-42-5	Styrene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
127-18-4	Tetrachloroethene	50	U
108-88-3	**Toluene**	**710**	

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 1 / mL
Work Order: CE17K101
Dilution factor: 5
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
79-01-6	Trichloroethene	50	U
75-01-4	Vinyl chloride	50	U
1330-20-7	Xylenes (total)	1900	

0060

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 1 / mL
Work Order: CE17K101
Dilution factor: 5
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-05

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
0-00-0	unknown	6.6	140	J
98-82-8	benzene, (1-methylethyl)- or	20.43	1000	J
611-14-3	benzene, 1-ethyl-2-methyl- o	20.95	440	J
95-36-3	1,2,4-trimethylbenzene or is	21.17	1200	J
526-73-8	benzene, 1,2,3-trimethyl- or	21.93	550	J
0-00-0	unknown benzene	22.18	170	J
0-00-0	unknown benzene	22.3	190	J
611-15-4	benzene, 1-ethenyl-2-methyl-	22.4	200	J
1074-55-1	benzene, 1-methyl-4-propyl-	22.57	160	J
2870-04-4	benzene, 2-ethyl- 1,3-dimeth	22.77	200	J
2870-04-4	benzene, 2-ethyl-1,3-dimethy	23.4	140	J

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17K102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-05

TW

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17K102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	**2,4-Dimethylphenol**	**2.2**	**J**
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	**Fluorene**	**1.0**	**J**
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	**2-Methylnaphthalene**	**54**	
95-48-7	2-Methylphenol	10	U
106-44-5	**4-Methylphenol**	**2.6**	**J**
91-20-3	**Naphthalene**	**80**	
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

0112

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17K102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	1.1	J
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

0113

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17K102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-05

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
98-82-8	Benzene, (1-methylethyl)-	3.5505	19	JN
103-65-1	Benzene, propyl-	3.7719	35	JN
	UNKNOWN SUBSTITUTED BENZENE	3.8432	120	J
95-63-6	Benzene, 1,2,4-trimethyl-	3.8861	50	JN
526-73-8	Benzene, 1,2,3-trimethyl-	4.2644	100	JN
	UNKNOWN SUBSTITUTED BENZENE	4.4143	37	J
	UNKNOWN SUBSTITUTED BENZENE	4.4572	48	J
	UNKNOWN SUBSTITUTED BENZENE	4.7713	4.1	J
	UNKNOWN SUBSTITUTED BENZENE	4.8284	3.7	J
	UNKNOWN SUBSTITUTED BENZENE	4.8569	4.7	J
	UNKNOWN SUBSTITUTED BENZENE	4.9426	2.4	J
	UNKNOWN SUBSTITUTED BENZENE	5.0782	12	J
119-64-2	Naphthalene, 1,2,3,4-tetrahy	5.1568	7.3	JN
	UNKNOWN	5.1924	2.9	J
	UNKNOWN SUBSTITUTED NAPHTHAL	5.8563	3.0	J
	UNKNOWN ALKANE	5.9848	2.9	J
90-12-0	Naphthalene, 1-methyl-	6.2347	8.0	JN
	UNKNOWN AROMATIC	6.7201	6.6	J
	UNKNOWN AROMATIC	7.0699	22	J
	UNKNOWN SUBSTITUTED NAPHTHAL	7.1056	5.9	J
10544-50-0	Sulfur, mol. (s8)	12.373	26	JN

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17J101
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	**Benzene**	**12**	
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	**Ethylbenzene**	**170**	
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	**Toluene**	**7.3**	**J**

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17J101
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	890	E

0054

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17J101
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-06

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
488-23-2	benzene, 1,2,3,4-tetramethyl	17.47	61	J
611-14-3	benzene, 1-ethyl-2-methyl- o	20.48	280	J
95-63-6	benzene, 1,2,4-trimethyl- or	20.57	200	J
95-36-3	1,2,4-trimethylbenzene or is	21.22	680	J
0-00-0	unknown aromatic	21.63	51	J
95-36-3	1,2,4-trimethylbenzene or is	21.95	370	J
0-00-0	unknown benzene	22.2	66	J
527-84-4	benzene, 1-methyl-2-(1-methy	22.32	94	J
1074-55-1	benzene, 1-methyl-4-propyl-	22.6	59	J
934-80-5	benzene, 4-ethyl-1,2-dimethy	22.78	110	J
934-80-5	benzene, 4-ethyl-1,2-dimethy	22.92	63	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 1 / mL
Work Order: CE17J201
Dilution factor: 5
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-06 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	50	U
71-43-2	**Benzene**	**9.7**	**J**
75-27-4	Bromodichloromethane	50	U
75-25-2	Bromoform	50	U
74-83-9	Bromomethane	50	U
78-93-3	2-Butanone	50	U
75-15-0	Carbon disulfide	50	U
56-23-5	Carbon tetrachloride	50	U
108-90-7	Chlorobenzene	50	U
124-48-1	Dibromochloromethane	50	U
75-00-3	Chloroethane	50	U
67-66-3	Chloroform	50	U
74-87-3	Chloromethane	50	U
75-34-3	1,1-Dichloroethane	50	U
107-06-2	1,2-Dichloroethane	50	U
75-35-4	1,1-Dichloroethene	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
100-41-4	**Ethylbenzene**	**110**	
591-78-6	2-Hexanone	50	U
75-09-2	Methylene chloride	50	U
108-10-1	4-Methyl-2-pentanone	50	U
100-42-5	Styrene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
127-18-4	Tetrachloroethene	50	U
108-88-3	**Toluene**	**6.6**	**J**

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 1 / mL
Work Order: CE17J201
Dilution factor: 5
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-06 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
79-01-6	Trichloroethene	50	U
75-01-4	Vinyl chloride	50	U
1330-20-7	Xylenes (total)	540	

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 1 / mL
Work Order: CE17J201
Dilution factor: 5
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-06 -RE 1

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
98-82-8	benzene, (1-methylethyl)- or	19.62	26	J
98-82-8	benzene, (1-methylethyl)- or	20.5	140	J
95-63-6	benzene, 1,2,4-trimethyl- or	20.58	100	J
95-36-3	1,2,4-trimethylbenzene or is	21.22	320	J
934-80-5	benzene, 4-ethyl-1,2-dimethy	21.65	28	J
526-73-8	benzene, 1,2,3-trimethyl- or	21.97	200	J
0-00-0	unknown benzene	22.22	41	J
527-84-4	benzene, 1-methyl-2-(1-methy	22.33	60	J
1074-55-1	benzene, 1-methyl-4-propyl-	22.62	35	J
934-80-5	benzene, 4-ethyl-1,2-dimethy	22.8	65	J
934-80-5	benzene, 4-ethyl-1,2-dimethy	22.92	36	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J102
Dilution factor: 2
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	20	U
208-96-8	Acenaphthylene	20	U
120-12-7	Anthracene	20	U
56-55-3	Benzo(a)anthracene	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
191-24-2	Benzo(ghi)perylene	20	U
50-32-8	Benzo(a)pyrene	20	U
111-91-1	bis(2-Chloroethoxy)methane	20	U
111-44-4	bis(2-Chloroethyl) ether	20	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	U
117-81-7	bis(2-Ethylhexyl) phthalate	20	U
101-55-3	4-Bromophenyl phenyl ether	20	U
85-68-7	Butyl benzyl phthalate	20	U
106-47-8	4-Chloroaniline	20	U
59-50-7	4-Chloro-3-methylphenol	20	U
91-58-7	2-Chloronaphthalene	20	U
95-57-8	2-Chlorophenol	20	U
7005-72-3	4-Chlorophenyl phenyl ether	20	U
218-01-9	Chrysene	20	U
53-70-3	Dibenz(a,h)anthracene	20	U
132-64-9	Dibenzofuran	20	U
84-74-2	Di-n-butyl phthalate	20	U
95-50-1	1,2-Dichlorobenzene	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
120-83-2	2,4-Dichlorophenol	20	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J102
Dilution factor: 2
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	**Diethyl phthalate**	**3.5**	**J**
105-67-9	2,4-Dimethylphenol	20	U
131-11-3	Dimethyl phthalate	20	U
117-84-0	Di-n-octyl phthalate	20	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
51-28-5	2,4-Dinitrophenol	50	U
121-14-2	2,4-Dinitrotoluene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
206-44-0	Fluoranthene	20	U
86-73-7	Fluorene	20	U
118-74-1	Hexachlorobenzene	20	U
87-68-3	Hexachlorobutadiene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
67-72-1	Hexachloroethane	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
78-59-1	Isophorone	20	U
91-57-6	**2-Methylnaphthalene**	**72**	
95-48-7	2-Methylphenol	~~20~~ 2.4	~~U~~ J
106-44-5	**4-Methylphenol**	~~2~~ 4 20	~~J~~ U
91-20-3	**Naphthalene**	**110**	
88-74-4	2-Nitroaniline	50	U
99-09-2	3-Nitroaniline	50	U
100-01-6	4-Nitroaniline	50	U
98-95-3	Nitrobenzene	20	U
88-75-5	2-Nitrophenol	20	U
100-02-7	4-Nitrophenol	50	U
621-64-7	N-Nitrosodi-n-propylamine	20	U
86-30-6	N-Nitrosodiphenylamine	20	U

5/12/99

0107

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J102
Dilution factor: 2
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	20	U
108-95-2	Phenol	20	U
129-00-0	Pyrene	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
95-95-4	2,4,5-Trichlorophenol	50	U
88-06-2	2,4,6-Trichlorophenol	20	U
86-74-8	Carbazole	20	U

0108

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J102
Dilution factor: 2
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
19550-73-3	Trans-3,4-dimethylcyclopenta	3.3645	16	JN
	UNKNOWN SUBSTITUTED BENZENE	3.5073	23	J
	UNKNOWN	3.6073	23	J
103-65-1	Benzene, propyl-	3.7358	65	JN
622-96-8	Benzene, 1-ethyl-4-methyl-	3.7929	51	JN
95-36-3	1,2,4-Trimethylbenzene	3.8428	42	JN
526-73-8	Benzene, 1,2,3-trimethyl-	4.2141	70	JN
	UNKNOWN SUBSTITUTED BENZENE	4.3711	24	J
	UNKNOWN SUBSTITUTED BENZENE	4.5496	42	J
	UNKNOWN	4.7352	33	J
	UNKNOWN SUBSTITUTED BENZENE	4.7923	36	J
	UNKNOWN SUBSTITUTED BENZENE	4.8208	19	J
	UNKNOWN	4.8851	20	J
	UNKNOWN SUBSTITUTED BENZENE	5.035	95	J
	UNKNOWN	5.1706	7.8	J
90-12-0	Naphthalene, 1-methyl-	6.1986	27	JN
	UNKNOWN	6.477	96	J
	UNKNOWM	6.6412	24	J
	UNKNOWN	6.684	35	J
	UNKNOWN	6.8268	17	J
	UNKNOWN	6.9125	31	J
	UNKNOWN	6.9767	20	J
	UNKNOWN	7.041	23	J
	UNKNOWN ACID	7.1123	27	J
	UNKNOWN ACID	7.2194	31	J
	UNKNOWN	7.3122	58	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J102
Dilution factor: 2
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	7.455	34	J
	UNKNOWN	7.7477	42	J
	UNKNOWN	8.0475	24	J
	UNKNOWN	8.4616	32	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J202
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J202
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	**Diethyl phthalate**	**2.5**	**J**
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	**2-Methylnaphthalene**	**69**	
95-48-7	**2-Methylphenol**	**2.3**	**J**
106-44-5	4-Methylphenol	10	U
91-20-3	**Naphthalene**	**110**	**E**
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR344

Matrix: (soil/water) WATER Lab Sample ID:C7K130115 005
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL Date Received: 11/13/97
Work Order: CE17J202 Date Extracted:11/18/97
Dilution factor: 1 Date Analyzed: 11/26/97
Moisture %:NA

QC Batch: 7324105

Client Sample Id: FD-GW-06 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J202
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06 -RE 1

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
13351-73-0	UNKNOWN	7.3678	47	J
1757-42-2	Cyclopentanone, 3-methyl-	2.692	11	JN
19550-73-3	Trans-3,4-dimethylcyclopenta	3.3987	13	JN
98-82-8	Benzene, (1-methylethyl)-	3.5343	15	JN
1191-96-4	UNKNOWN	3.6343	14	J
103-65-1	Benzene, propyl-	3.7628	28	JN
620-14-4	UNKNOWN SUBSTITUTED BENZENE	3.8199	45	J
95-36-3	1,2,4-Trimethylbenzene	3.8698	34	JN
526-73-8	Benzene, 1,2,3-trimethyl-	4.2482	55	JN
1074-43-7	UNKNOWN SUBSTITUTED BENZENE	4.4124	17	J
527-84-4	UNKNOWN SUBSTITUTED BENZENE	4.5908	30	J
95-93-2	UNKNOWN SUBSTITUTED BENZENE	5.0763	14	J
90-12-0	Naphthalene, 1-methyl-	6.2542	8.5	JN
619-04-5	UNKNOWN	6.5326	35	J
5532-86-5	UNKNOWN	6.6753	10	J
91-64-5	UNKNOWN	6.7324	11	J
582-16-1	UNKNOWN SUBSTITUTED NAPHTHAL	6.9752	12	J
571-61-9	UNKNOWN	7.0965	40	J
480-63-7	UNKNOWN ACID	7.1822	8.6	J
54396-45-1	UNKNOWN	7.2393	13	J
97-54-1	UNKNOWN	7.3107	17	J
619-55-6	UNKNOWN	7.5106	17	J
5510-99-6	UNKNOWN	7.8032	16	J
91-21-4	UNKNOWN	7.9389	9.6	J
7340-22-9	UNKNOWN	8.0531	9.5	J
10487-96-4	UNKNOWN	8.1174	22	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA
SDG Number: BR344

Matrix: (soil/water) WATER
Lab Sample ID: C7K130115 005
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17J202
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/26/97

QC Batch: 7324105

Client Sample Id: FD-GW-06 -RE 1

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
931-64-6	UNKNOWN	8.203	8.1	J
102-25-0	UNKNOWN	8.2673	9.5	J
54549-72-3	UNKNOWN	8.5457	28	J
536-66-3	UNKNOWN PHTHALATE	8.7313	7.7	J

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17H101
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	10	U
71-43-2	**Benzene**	**11**	
75-27-4	Bromodichloromethane	10	U
75-25-2	Bromoform	10	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	10	U
75-15-0	Carbon disulfide	10	U
56-23-5	Carbon tetrachloride	10	U
108-90-7	Chlorobenzene	10	U
124-48-1	Dibromochloromethane	10	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	10	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	10	U
107-06-2	1,2-Dichloroethane	10	U
75-35-4	1,1-Dichloroethene	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
100-41-4	**Ethylbenzene**	**67**	
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	U
108-10-1	4-Methyl-2-pentanone	10	U
100-42-5	Styrene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	**Toluene**	**12**	

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17H101
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	320	

0051

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / mL
Work Order: CE17H101
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/18/97

QC Batch: 7322109

Client Sample Id: FD-GW-07

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
611-14-3	benzene, 1-ethyl-2-methyl- o	20.47	110	J
526-73-8	benzene, 1,2,3-trimethyl- or	20.55	81	J
95-36-3	1,2,4-trimethylbenzene or is	21.2	270	J
95-36-3	1,2,4-trimethylbenzene or is	21.93	130	J
0-00-0	unknown benzene	22.2	45	J
527-84-4	benzene, 1-methyl-2-(1-methy	22.32	45	J
1074-55-1	benzene, 1-methyl-4-propyl o	22.6	35	J
2870-04-4	benzene, 2-ethyl-1,3-dimethy	22.77	66	J
2870-04-4	benzene, 2-ethyl-1,3-dimethy	22.9	44	J
0-00-0	unknown	23.08	33	J
0-00-0	unknown	23.22	40	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID: C7K130115 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17H102
Dilution factor: 1
Moisture %: NA

Date Received: 11/13/97
Date Extracted: 11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: FD-GW-07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
120-83-2	2,4-Dichlorophenol	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17H102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: FD-GW-07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
51-28-5	2,4-Dinitrophenol	25	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	**Fluorene**	**1.1**	**J**
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	**2-Methylnaphthalene**	**62**	
95-48-7	**2-Methylphenol**	**1.6**	**J**
106-44-5	4-Methylphenol	10	U
91-20-3	**Naphthalene**	**79**	
88-74-4	2-Nitroaniline	25	U
99-09-2	3-Nitroaniline	25	U
100-01-6	4-Nitroaniline	25	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	25	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
86-30-6	N-Nitrosodiphenylamine	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17H102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: FD-GW-07

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
88-06-2	2,4,6-Trichlorophenol	10	U
86-74-8	Carbazole	10	

0098

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR344

Matrix: (soil/water) WATER

Lab Sample ID:C7K130115 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL
Work Order: CE17H102
Dilution factor: 1
Moisture %:NA

Date Received: 11/13/97
Date Extracted:11/18/97
Date Analyzed: 11/25/97

QC Batch: 7324105

Client Sample Id: FD-GW-07

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN SUBSTITUTED BENZENE	3.8262	42	J
95-36-3	1,2,4-Trimethylbenzene	3.8762	30	JN
98-82-8	Benzene, (1-methylethyl)-	3.5407	12	JN
	UNKNOWN	3.6406	11	J
103-65-1	Benzene, propyl-	3.762	28	JN
526-73-8	Benzene, 1,2,3-trimethyl-	4.2474	52	JN
	UNKNOWN SUBSTITUTED BENZENE	4.4116	19	J
	UNKNOWN SUBSTITUTED BENZENE	4.5901	26	J
	UNKNOWN SUBSTITUTED BENZENE	4.7685	15	J
	UNKNOWN SUBSTITUTED BENZENE	4.8328	22	J
	UNKNOWN	4.9256	12	J
	UNKNOWN SUBSTITUTED BENZENE	5.0826	57	J
	UNKNOWN	5.2325	4.4	J
	UNKNOWN	5.5109	4.2	J
	UNKNOWN	5.6965	2.5	J
	UNKNOWN	5.8393	3.7	J
	UNKNOWN	5.8679	2.6	J
	UNKNOWN	5.9892	4.2	J
90-12-0	Naphthalene, 1-methyl-	6.2534	5.7	JN
	UNKNOWN	6.4889	16	J
	UNKNOWN	6.5318	16	J
	UNKNOWN	6.7317	22	J
	UNKNOWN SUBSTITUTED NAPHTHAL	6.9672	13	J
	UNKNOWN SUBSTITUTED BENZENE	7.0957	35	J
	UNKNOWN	7.2385	22	J
	UNKNOWN	7.8524	28	J

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR344

Matrix: (soil/water) WATER Lab Sample ID:C7K130115 004
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 1000 / mL Date Received: 11/13/97
Work Order: CE17H102 Date Extracted:11/18/97
Dilution factor: 1 Date Analyzed: 11/25/97
Moisture %:NA

QC Batch: 7324105

Client Sample Id: FD-GW-07

(ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	8.1166	28	J
	UNKNOWN	8.5877	24	J
10544-50-0	Sulfur, mol. (s8)	12.349	10	JN

0100

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ0103
Dilution factor: 1
Moisture %: 9.6

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	11	U
71-43-2	Benzene	11	U
75-27-4	Bromodichloromethane	11	U
75-25-2	Bromoform	11	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	11	U
75-15-0	Carbon disulfide	11	U
56-23-5	Carbon tetrachloride	11	U
108-90-7	Chlorobenzene	11	U
124-48-1	Dibromochloromethane	11	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	11	U
74-87-3	Chloromethane	11	U
75-34-3	1,1-Dichloroethane	11	U
107-06-2	1,2-Dichloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
100-41-4	Ethylbenzene	11	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	11	U
108-10-1	4-Methyl-2-pentanone	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
71-55-6	1,1,1-Trichloroethane	11	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ0103
Dilution factor: 1
Moisture %: 9.6

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	11	U
79-01-6	Trichloroethene	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	11	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ0103
Dilution factor: 1
Moisture %: 9.6

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB01-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ0101
Dilution factor: 4
Moisture %: 9.6

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	1500	U
208-96-8	Acenaphthylene	1500	U
120-12-7	Anthracene	1500	U
56-55-3	**Benzo(a)anthracene**	**3300**	
205-99-2	**Benzo(b)fluoranthene**	**1700**	
207-08-9	**Benzo(k)fluoranthene**	**1700**	
191-24-2	**Benzo(ghi)perylene**	**1100**	**J**
50-32-8	**Benzo(a)pyrene**	**2200**	
111-91-1	bis(2-Chloroethoxy)methane	1500	U
111-44-4	bis(2-Chloroethyl) ether	1500	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1500	U
117-81-7	bis(2-Ethylhexyl) phthalate	1500	U
101-55-3	4-Bromophenyl phenyl ether	1500	U
85-68-7	Butyl benzyl phthalate	1500	U
106-47-8	4-Chloroaniline	1500	U
59-50-7	4-Chloro-3-methylphenol	1500	U
91-58-7	2-Chloronaphthalene	1500	U
95-57-8	2-Chlorophenol	1500	U
7005-72-3	4-Chlorophenyl phenyl ether	1500	U
218-01-9	**Chrysene**	**3100**	
53-70-3	Dibenz(a,h)anthracene	1500	U
132-64-9	Dibenzofuran	1500	U
84-74-2	Di-n-butyl phthalate	1500	U
95-50-1	1,2-Dichlorobenzene	1500	U
541-73-1	1,3-Dichlorobenzene	1500	U
106-46-7	1,4-Dichlorobenzene	1500	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
120-83-2	2,4-Dichlorophenol	1500	U
84-66-2	Diethyl phthalate	1500	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ0101
Dilution factor: 4
Moisture %: 9.6

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	1500	U
131-11-3	Dimethyl phthalate	1500	U
117-84-0	Di-n-octyl phthalate	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
51-28-5	2,4-Dinitrophenol	3700	U
121-14-2	2,4-Dinitrotoluene	1500	U
606-20-2	2,6-Dinitrotoluene	1500	U
206-44-0	**Fluoranthene**	**7400**	
86-73-7	Fluorene	1500	U
118-74-1	Hexachlorobenzene	1500	U
87-68-3	Hexachlorobutadiene	1500	U
77-47-4	Hexachlorocyclopentadiene	1500	U
67-72-1	Hexachloroethane	1500	U
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1400**	**J**
78-59-1	Isophorone	1500	U
91-57-6	2-Methylnaphthalene	1500	U
95-48-7	2-Methylphenol	1500	U
106-44-5	4-Methylphenol	1500	U
91-20-3	Naphthalene	1500	U
88-74-4	2-Nitroaniline	3700	U
99-09-2	3-Nitroaniline	3700	U
100-01-6	4-Nitroaniline	3700	U
98-95-3	Nitrobenzene	1500	U
88-75-5	2-Nitrophenol	1500	U
100-02-7	4-Nitrophenol	3700	U
621-64-7	N-Nitrosodi-n-propylamine	1500	U
86-30-6	N-Nitrosodiphenylamine	1500	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	1500	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ0101
Dilution factor: 4
Moisture %: 9.6

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1500	U
129-00-0	Pyrene	10000	
120-82-1	1,2,4-Trichlorobenzene	1500	U
95-95-4	2,4,5-Trichlorophenol	3700	U
88-06-2	2,4,6-Trichlorophenol	1500	U
86-74-8	Carbazole	1500	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ0101
Dilution factor: 4
Moisture %: 9.6

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB01-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	2.7479	10000	JBA
	Unknown	3.9184	1200	J
	Unknown	4.4038	3500	J
	Unknown	4.4894	4300	J
	Unknown	4.5322	3900	J
	Unknown	4.6107	5000	J
	Unknown	4.8035	1300	J
	Unknown	4.8534	1800	J
	Unknown	4.9605	1700	J
	Unknown	5.039	1400	J
	Unknown	5.1032	1800	J
	Unknown	5.246	1600	J
	Unknown Branched Alkane	5.4315	4500	J
	Unknown	5.5671	2200	J
	Unknown	5.61	1100	J
	Unknown Branched Alkane	5.767	4500	J
	Unknown Branched Alkane	5.8455	5100	J
	Unknown Straight Alkane	6.0454	5400	J
	Unknown Branched Alkane	6.1167	2000	J
	Unknown Branched Alkane	6.1667	1900	J
	Unknown	6.288	2400	J
	Unknown	6.4165	2600	J
	Unknown	6.5093	2900	J
	Unknown Straight Alkane	6.8305	7100	J
	Unknown Branched Alkane	6.8804	1000	J
	Unknown Branched Alkane	6.9232	1600	J
	Unknown	7.1945	1800	J
	Unknown Branched Alkane	7.3158	2200	J
	Unknown Straight Alkane	9.2571	3000	J
	Unknown Branched Alkane	9.3071	2900	J

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 003

Method: CCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ2103
Dilution factor: 1
Moisture %: 1.9

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB02-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ2103
Dilution factor: 1
Moisture %: 1.9

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID:C7H180107 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ2103
Dilution factor: 1
Moisture %:1.9

Date Received: 08/16/97
Date Extracted:08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB02-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: soil/water) SOLID

Lab Sample ID: C7H180107 003

Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ2101
Dilution factor: 2
Moisture %: 1.9

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	670	U
208-96-8	Acenaphthylene	670	U
120-12-7	**Anthracene**	**610**	**J**
56-55-3	**Benzo(a)anthracene**	**1500**	
205-99-2	**Benzo(b)fluoranthene**	**760**	
207-08-9	**Benzo(k)fluoranthene**	**700**	
191-24-2	**Benzo(ghi)perylene**	**560**	**J**
50-32-8	**Benzo(a)pyrene**	**990**	
111-91-1	bis(2-Chloroethoxy)methane	670	U
111-44-4	bis(2-Chloroethyl) ether	670	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	670	U
117-81-7	bis(2-Ethylhexyl) phthalate	670	U
101-55-3	4-Bromophenyl phenyl ether	670	U
85-68-7	Butyl benzyl phthalate	670	U
106-47-8	4-Chloroaniline	670	U
59-50-7	4-Chloro-3-methylphenol	670	U
91-58-7	2-Chloronaphthalene	670	U
95-57-8	2-Chlorophenol	670	U
7005-72-3	4-Chlorophenyl phenyl ether	670	U
218-01-9	**Chrysene**	**1600**	
53-70-3	Dibenz(a,h)anthracene	670	U
132-64-9	Dibenzofuran	670	U
84-74-2	Di-n-butyl phthalate	670	U
95-50-1	1,2-Dichlorobenzene	670	U
541-73-1	1,3-Dichlorobenzene	670	U
106-46-7	1,4-Dichlorobenzene	670	U
91-94-1	3,3'-Dichlorobenzidine	670	U
120-83-2	2,4-Dichlorophenol	670	U
84-66-2	Diethyl phthalate	670	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 003

Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ2101
Dilution factor: 2
Moisture %: 1.9

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	670	U
131-11-3	Dimethyl phthalate	670	U
117-84-0	Di-n-octyl phthalate	670	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	670	U
606-20-2	2,6-Dinitrotoluene	670	U
206-44-0	**Fluoranthene**	**4200**	
86-73-7	**Fluorene**	**180**	**J**
118-74-1	Hexachlorobenzene	670	U
87-68-3	Hexachlorobutadiene	670	U
77-47-4	Hexachlorocyclopentadiene	670	U
67-72-1	Hexachloroethane	670	U
193-39-5	**Indeno(1,2,3-cd)pyrene**	**650**	**J**
78-59-1	Isophorone	670	U
91-57-6	2-Methylnaphthalene	670	U
95-48-7	2-Methylphenol	670	U
[illegible]-44-5	4-Methylphenol	670	U
[illegible]-20-3	Naphthalene	670	U
[illegible]-74-4	2-Nitroaniline	1700	U
[illegible]-09-2	3-Nitroaniline	1700	U
[illegible]-01-6	4-Nitroaniline	1700	U
[illegible]-95-3	Nitrobenzene	670	U
[illegible]-75-5	2-Nitrophenol	670	U
[illegible]-02-7	4-Nitrophenol	1700	U
621-64-7	N-Nitrosodi-n-propylamine	670	U
[illegible]-30-6	N-Nitrosodiphenylamine	670	U
[illegible]-86-5	Pentachlorophenol	1700	U
85-01-8	**Phenanthrene**	**870**	

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Lab Sample ID: C7H180107 003

Matrix: (soil/water) SOLID
Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ2101
Dilution factor: 2
Moisture %: 1.9

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	670	U
129-00-0	Pyrene	3400	
120-82-1	1,2,4-Trichlorobenzene	670	U
95-95-4	2,4,5-Trichlorophenol	1700	U
88-06-2	2,4,6-Trichlorophenol	670	U
86-74-8	Carbazole	120	J

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA SDG Number: BR333

Matrix: (soil/water) SOLID Lab Sample ID: C7H180107 003
Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1

Sample WT/Vol: 30 / g Date Received: 08/16/97
Work Order: CCAJ2101 Date Extracted: 08/28/97
Dilution factor: 2 Date Analyzed: 09/10/97
Moisture %: 1.9

QC Batch: 7250108

Client Sample Id: T1-SB02-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone,4-Hydroxy-4-Meth	2.7999	8300	JBA
	Unknown Branched Alkane	3.328	640	J
	Unknown Branched Alkane	3.6207	1100	J
	Unknown Branched Alkane	3.6778	950	J
	Unknown Branched Alkane	3.8419	4000	J
	Unknown Branched Alkane	3.8919	1400	J
	Unknown Branched Alkane	4.2487	2600	J
	Unknown	4.4914	7100	J
	Unknown Straight Alkane	4.7412	18000	J
	Unknown Branched Alkane	4.8197	240	J
	Unknown	4.884	290	J
	Unknownxanehexanol	4.9839	250	J
	Unknown Branched Alkane	5.0553	250	J
	Unknown Substituted Benzene	5.1195	500	J
	Unknown Straight Alkane	5.4121	550	J
	Unknown	5.8832	490	J
	Unknown Straight Alkane	6.0973	1400	J
	Unknown	6.3328	220	J
	Unknown Cyclo Alkane	6.4399	330	J
	Unknown Branched Alkane	6.5327	760	J
	Unknown Straight Alkane	6.8539	3000	J
	Unknown	6.9038	290	J
	Unknown Branched Alkane	6.9324	350	J
	Unknown	7.2036	540	J
	Unknown Cyclohexane	7.2607	320	J
	Unknown Branched Alkane	7.3249	860	J
	Unknown	7.9958	240	J
	Unknown Branched Alkane	8.4384	430	J
	Unknown Branched Alkane	9.2592	1500	J
	Unknown Branched Alkane	9.3091	1700	J

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ3103
Dilution factor: 1
Moisture %: 4.6

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB03-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ3103
Dilution factor: 1
Moisture %: 4.6

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCAJ3103
Dilution factor: 1
Moisture %: 4.6

Date Received: 08/16/97
Date Extracted: 08/19/97
Date Analyzed: 08/19/97

QC Batch: 7231123

Client Sample Id: T1-SB03-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	no tics detected			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 004

Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ3101
Dilution factor: 5
Moisture %: 4.6

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	1700	U
208-96-8	Acenaphthylene	1700	U
120-12-7	**Anthracene**	**310**	**J**
56-55-3	**Benzo(a)anthracene**	**2000**	
205-99-2	**Benzo(b)fluoranthene**	**1200**	**J**
207-08-9	**Benzo(k)fluoranthene**	**920**	**J**
191-24-2	**Benzo(ghi)perylene**	**720**	**J**
50-32-8	**Benzo(a)pyrene**	**1400**	**J**
111-91-1	bis(2-Chloroethoxy)methane	1700	U
111-44-4	bis(2-Chloroethyl) ether	1700	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1700	U
117-81-7	bis(2-Ethylhexyl) phthalate	1700	U
101-55-3	4-Bromophenyl phenyl ether	1700	U
85-68-7	Butyl benzyl phthalate	1700	U
106-47-8	4-Chloroaniline	1700	U
[illegible]	4-Chloro-3-methylphenol	1700	U
[illegible]	2-Chloronaphthalene	1700	U
[illegible]	2-Chlorophenol	1700	U
[illegible]	4-Chlorophenyl phenyl ether	1700	U
218-01-9	**Chrysene**	**2100**	
[illegible]	Dibenz(a,h)anthracene	1700	U
[illegible]	Dibenzofuran	1700	U
[illegible]	Di-n-butyl phthalate	1700	U
[illegible]	1,2-Dichlorobenzene	1700	U
[illegible]	1,3-Dichlorobenzene	1700	U
[illegible]	1,4-Dichlorobenzene	1700	U
[illegible]	3,3'-Dichlorobenzidine	1700	U
[illegible]	2,4-Dichlorophenol	1700	U
[illegible]	Diethyl phthalate	1700	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR333

Matrix: (soil/water) SOLID

Lab Sample ID: C7H180107 004

Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ3101
Dilution factor: 5
Moisture %: 4.6

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
[illegible]-67-9	2,4-Dimethylphenol	1700	U
[illegible]-11-3	Dimethyl phthalate	1700	U
[illegible]-84-0	Di-n-octyl phthalate	1700	U
[illegible]-52-1	4,6-Dinitro-2-methylphenol	4300	U
[illegible]-28-5	2,4-Dinitrophenol	4300	U
[illegible]-14-2	2,4-Dinitrotoluene	1700	U
[illegible]-20-2	2,6-Dinitrotoluene	1700	U
206-44-0	**Fluoranthene**	**4600**	
[illegible]-73-7	Fluorene	1700	U
[illegible]-74-1	Hexachlorobenzene	1700	U
[illegible]-68-3	Hexachlorobutadiene	1700	U
[illegible]-47-4	Hexachlorocyclopentadiene	1700	U
[illegible]-72-1	Hexachloroethane	1700	U
193-39-5	**Indeno(1,2,3-cd)pyrene**	**860**	J
[illegible]-1	Isophorone	1700	U
[illegible]-6	2-Methylnaphthalene	1700	U
[illegible]-7	2-Methylphenol	1700	U
[illegible]-5	4-Methylphenol	1700	U
[illegible]-3	Naphthalene	1700	U
[illegible]-4	2-Nitroaniline	4300	U
[illegible]-2	3-Nitroaniline	4300	U
[illegible]-6	4-Nitroaniline	4300	U
[illegible]-3	Nitrobenzene	1700	U
[illegible]-5	2-Nitrophenol	1700	U
[illegible]-7	4-Nitrophenol	4300	U
[illegible]-7	N-Nitrosodi-n-propylamine	1700	U
[illegible]-6	N-Nitrosodiphenylamine	1700	U
[illegible]-5	Pentachlorophenol	4300	U
85-01-8	**Phenanthrene**	**250**	J

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA | SDG Number: BR333

Matrix: (soil/water) SOLID | Lab Sample ID: C7H180107 004

Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g | Date Received: 08/16/97
Work Order: CCAJ3101 | Date Extracted: 08/28/97
Dilution factor: 5 | Date Analyzed: 09/10/97
Moisture %: 4.6

QC Batch: 7250108

Client Sample Id: T1-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1700	U
129-00-0	**Pyrene**	**4900**	
120-82-1	1,2,4-Trichlorobenzene	1700	U
95-95-4	2,4,5-Trichlorophenol	4300	U
88-06-2	2,4,6-Trichlorophenol	1700	U
86-74-8	Carbazole	1700	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR333

Lab Sample ID: C7H180107 004

Matrix: (soil/water) SOLID
Method: CCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCAJ3101
Dilution factor: 5
Moisture %: 4.6

Date Received: 08/16/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T1-SB03-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	2.7473	11000	JBA
	Unknown Branched Alkane	3.6181	1900	J
	Unknown Branched Alkane	3.6752	2100	J
	Unknown Cyclo Alkane	3.8037	5200	J
	Unknown Cyclo Alkane	3.925	1500	J
	Unknown	4.4317	4100	J
	Unknown	4.496	4200	J
	Unknown	4.5388	2700	J
	Unknown	4.8671	600	J
	Unknown Branched Alkane	5.4024	920	J
	Unknown Branched Alkane	5.745	840	J
	Unknown	5.7736	540	J
	Unknown Branched Alkane	5.8521	1200	J
	Unknown Branched Alkane	5.8806	910	J
	Unknown Straight Alkane	6.0876	4800	J
	Unknown Branched Alkane	6.1376	760	J
	Unknown Branched Alkane	6.1733	710	J
	Unknown	6.316	700	J
	Unknown	6.4302	1200	J
	Unknown Branched Alkane	6.523	2000	J
	Unknown Branched Alkane	6.8442	6400	J
	Unknown Branched Alkane	6.8941	850	J
	Unknown Branched Alkane	6.9298	900	J
	Unknown	7.201	1300	J
	Unknown Cyclo Alkane	7.2581	690	J
	Unknown Branched Alkane	7.3224	2300	J
	Unknown Branched Alkane	7.979	530	J
	Unknown Straight Alkane	8.4429	1100	J
	Unknown Branched Alkane	8.8355	510	J
	Unknown Branched Alkane	9.2637	3300	J

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR1103
Dilution factor: 1
Moisture %:5.4

Date Received: 08/20/97
Date Extracted:08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	11	U
71-43-2	Benzene	11	U
75-27-4	Bromodichloromethane	11	U
75-25-2	Bromoform	11	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	11	U
75-15-0	Carbon disulfide	11	U
56-23-5	Carbon tetrachloride	11	U
108-90-7	Chlorobenzene	11	U
124-48-1	Dibromochloromethane	11	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	11	U
74-87-3	Chloromethane	11	U
75-34-3	1,1-Dichloroethane	11	U
107-06-2	1,2-Dichloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
100-41-4	Ethylbenzene	11	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	11	U
108-10-1	4-Methyl-2-pentanone	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	**Toluene**	**3.7**	**J**
71-55-6	1,1,1-Trichloroethane	11	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR1103
Dilution factor: 1
Moisture %: 5.4

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	11	U
79-01-6	Trichloroethene	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	11	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 001

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR1103
Dilution factor: 1
Moisture %:5.4

Date Received: 08/20/97
Date Extracted:08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB01-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR1101
Dilution factor: 1
Moisture %:5.4

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	350	U
208-96-8	Acenaphthylene	350	U
120-12-7	Anthracene	350	U
56-55-3	**Benzo(a)anthracene**	**100**	**J**
205-99-2	**Benzo(b)fluoranthene**	**430**	
207-08-9	**Benzo(k)fluoranthene**	**250**	**J**
191-24-2	**Benzo(ghi)perylene**	**190**	**J**
50-32-8	**Benzo(a)pyrene**	**500**	
111-91-1	bis(2-Chloroethoxy)methane	350	U
111-44-4	bis(2-Chloroethyl) ether	350	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350	U
117-81-7	bis(2-Ethylhexyl) phthalate	350	U
101-55-3	4-Bromophenyl phenyl ether	350	U
85-68-7	Butyl benzyl phthalate	350	U
106-47-8	4-Chloroaniline	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-58-7	2-Chloronaphthalene	350	U
95-57-8	2-Chlorophenol	350	U
7005-72-3	4-Chlorophenyl phenyl ether	350	U
218-01-9	**Chrysene**	**410**	
53-70-3	Dibenz(a,h)anthracene	350	U
132-64-9	Dibenzofuran	350	U
84-74-2	Di-n-butyl phthalate	350	U
95-50-1	1,2-Dichlorobenzene	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
120-83-2	2,4-Dichlorophenol	350	U
84-66-2	Diethyl phthalate	350	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR1101
Dilution factor: 1
Moisture %: 5.4

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	350	U
131-11-3	Dimethyl phthalate	350	U
117-84-0	Di-n-octyl phthalate	350	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
51-28-5	2,4-Dinitrophenol	880	U
121-14-2	2,4-Dinitrotoluene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
206-44-0	**Fluoranthene**	**130**	**J**
86-73-7	Fluorene	350	U
118-74-1	Hexachlorobenzene	350	U
87-68-3	Hexachlorobutadiene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
67-72-1	Hexachloroethane	350	U
193-39-5	**Indeno(1,2,3-cd)pyrene**	**250**	**J**
78-59-1	Isophorone	350	U
91-57-6	2-Methylnaphthalene	350	U
95-48-7	2-Methylphenol	350	U
106-44-5	4-Methylphenol	350	U
91-20-3	Naphthalene	350	U
88-74-4	2-Nitroaniline	880	U
99-09-2	3-Nitroaniline	880	U
100-01-6	4-Nitroaniline	880	U
98-95-3	Nitrobenzene	350	U
88-75-5	2-Nitrophenol	350	U
100-02-7	4-Nitrophenol	880	U
621-64-7	N-Nitrosodi-n-propylamine	350	U
86-30-6	N-Nitrosodiphenylamine	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	350	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR1101
Dilution factor: 1
Moisture %: 5.4

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	350	U
129-00-0	Pyrene	120	J
120-82-1	1,2,4-Trichlorobenzene	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
88-06-2	2,4,6-Trichlorophenol	350	U
86-74-8	Carbazole	350	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 001

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR1101
Dilution factor: 1
Moisture %:5.4

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB01-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-Hydroxy-4-Met	2.8833	24000	JBA
	Unknown Branched Alkane	2.8976	1100	J
	Unknown	10.613	77	J
	Unknown	10.762	97	J
57-10-3	Hexadecanoic acid	11.326	270	JB
	Unknown PAH	14.731	80	J
	Unknown PAH	15.559	75	J
	Unknown	16.458	160	J
	Unknown PAH	17.3	120	J
192-97-2	Benzo[e]pyrene	17.586	390	J
	Unknown PAH	19.263	110	J
	Unknown	21.611	460	J

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR2103
Dilution factor: 1
Moisture %: 8.0

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	11	U
71-43-2	Benzene	11	U
75-27-4	Bromodichloromethane	11	U
75-25-2	Bromoform	11	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	11	U
75-15-0	Carbon disulfide	11	U
56-23-5	Carbon tetrachloride	11	U
108-90-7	Chlorobenzene	11	U
124-48-1	Dibromochloromethane	11	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	11	U
74-87-3	Chloromethane	11	U
75-34-3	1,1-Dichloroethane	11	U
107-06-2	1,2-Dichloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
100-41-4	Ethylbenzene	11	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	11	U
108-10-1	4-Methyl-2-pentanone	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
71-55-6	1,1,1-Trichloroethane	11	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA SDG Number: BR334

Matrix: (soil/water) SOLID Lab Sample ID:C7H200116 002
Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR2103
Dilution factor: 1
Moisture %:8.0

Date Received: 08/20/97
Date Extracted:08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	11	U
79-01-6	Trichloroethene	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	11	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR2103
Dilution factor: 1
Moisture %: 8.0

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB02-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR2101
Dilution factor: 1
Moisture %:8.0

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	360	U
208-96-8	Acenaphthylene	360	U
120-12-7	Anthracene	360	U
56-55-3	Benzo(a)anthracene	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
191-24-2	Benzo(ghi)perylene	360	U
50-32-8	Benzo(a)pyrene	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
111-44-4	bis(2-Chloroethyl) ether	360	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	360	U
117-81-7	bis(2-Ethylhexyl) phthalate	360	U
101-55-3	4-Bromophenyl phenyl ether	360	U
85-68-7	Butyl benzyl phthalate	360	U
106-47-8	4-Chloroaniline	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-58-7	2-Chloronaphthalene	360	U
95-57-8	2-Chlorophenol	360	U
7005-72-3	4-Chlorophenyl phenyl ether	360	U
218-01-9	Chrysene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U
132-64-9	Dibenzofuran	360	U
84-74-2	Di-n-butyl phthalate	360	U
95-50-1	1,2-Dichlorobenzene	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
120-83-2	2,4-Dichlorophenol	360	U
84-66-2	Diethyl phthalate	360	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR2101
Dilution factor: 1
Moisture %: 8.0

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	360	U
131-11-3	Dimethyl phthalate	360	U
117-84-0	Di-n-octyl phthalate	360	U
534-52-1	4,6-Dinitro-2-methylphenol	900	U
51-28-5	2,4-Dinitrophenol	900	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
206-44-0	Fluoranthene	360	U
86-73-7	Fluorene	360	U
118-74-1	Hexachlorobenzene	360	U
87-68-3	Hexachlorobutadiene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
67-72-1	Hexachloroethane	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
78-59-1	Isophorone	360	U
91-57-6	2-Methylnaphthalene	360	U
95-48-7	2-Methylphenol	360	U
106-44-5	4-Methylphenol	360	U
91-20-3	Naphthalene	360	U
88-74-4	2-Nitroaniline	900	U
99-09-2	3-Nitroaniline	900	U
100-01-6	4-Nitroaniline	900	U
98-95-3	Nitrobenzene	360	U
88-75-5	2-Nitrophenol	360	U
100-02-7	4-Nitrophenol	900	U
621-64-7	N-Nitrosodi-n-propylamine	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
87-86-5	Pentachlorophenol	900	U
85-01-8	Phenanthrene	360	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR2101
Dilution factor: 1
Moisture %: 8.0

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	360	U
129-00-0	Pyrene	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
95-95-4	2,4,5-Trichlorophenol	900	U
88-06-2	2,4,6-Trichlorophenol	360	U
86-74-8	Carbazole	360	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR2101
Dilution factor: 1
Moisture %:8.0

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB02-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	2.8834	21000	JBA
57-10-3	Hexadecanoic acid	11.405	210	JB

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR4103
Dilution factor: 1
Moisture %:6.9

Date Received: 08/20/97
Date Extracted:08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	11	U
71-43-2	Benzene	11	U
75-27-4	Bromodichloromethane	11	U
75-25-2	Bromoform	11	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	11	U
75-15-0	Carbon disulfide	11	U
56-23-5	Carbon tetrachloride	11	U
108-90-7	Chlorobenzene	11	U
124-48-1	Dibromochloromethane	11	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	11	U
74-87-3	Chloromethane	11	U
75-34-3	1,1-Dichloroethane	11	U
107-06-2	1,2-Dichloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
100-41-4	Ethylbenzene	11	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	11	U
108-10-1	4-Methyl-2-pentanone	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
71-55-6	1,1,1-Trichloroethane	11	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR4103
Dilution factor: 1
Moisture %: 6.9

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	11	U
79-01-6	Trichloroethene	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	11	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR4103
Dilution factor: 1
Moisture %:6.9

Date Received: 08/20/97
Date Extracted:08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB03-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR4101
Dilution factor: 1
Moisture %: 6.9

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	350	U
208-96-8	Acenaphthylene	350	U
120-12-7	Anthracene	350	U
56-55-3	Benzo(a)anthracene	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
191-24-2	Benzo(ghi)perylene	350	U
50-32-8	Benzo(a)pyrene	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
111-44-4	bis(2-Chloroethyl) ether	350	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350	U
117-81-7	bis(2-Ethylhexyl) phthalate	350	U
101-55-3	4-Bromophenyl phenyl ether	350	U
85-68-7	Butyl benzyl phthalate	350	U
106-47-8	4-Chloroaniline	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-58-7	2-Chloronaphthalene	350	U
95-57-8	2-Chlorophenol	350	U
7005-72-3	4-Chlorophenyl phenyl ether	350	U
218-01-9	Chrysene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
132-64-9	Dibenzofuran	350	U
84-74-2	Di-n-butyl phthalate	350	U
95-50-1	1,2-Dichlorobenzene	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
120-83-2	2,4-Dichlorophenol	350	U
84-66-2	Diethyl phthalate	350	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR4101
Dilution factor: 1
Moisture %: 6.9

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	350	U
131-11-3	Dimethyl phthalate	350	U
117-84-0	Di-n-octyl phthalate	350	U
534-52-1	4,6-Dinitro-2-methylphenol	890	U
51-28-5	2,4-Dinitrophenol	890	U
121-14-2	2,4-Dinitrotoluene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
206-44-0	Fluoranthene	350	U
86-73-7	Fluorene	350	U
118-74-1	Hexachlorobenzene	350	U
87-68-3	Hexachlorobutadiene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
67-72-1	Hexachloroethane	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
78-59-1	Isophorone	350	U
91-57-6	2-Methylnaphthalene	350	U
95-48-7	2-Methylphenol	350	U
106-44-5	4-Methylphenol	350	U
91-20-3	Naphthalene	350	U
88-74-4	2-Nitroaniline	890	U
99-09-2	3-Nitroaniline	890	U
100-01-6	4-Nitroaniline	890	U
98-95-3	Nitrobenzene	350	U
88-75-5	2-Nitrophenol	350	U
100-02-7	4-Nitrophenol	890	U
621-64-7	N-Nitrosodi-n-propylamine	350	U
86-30-6	N-Nitrosodiphenylamine	350	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	350	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR4101
Dilution factor: 1
Moisture %: 6.9

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	350	U
129-00-0	Pyrene	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
95-95-4	2,4,5-Trichlorophenol	890	U
88-06-2	2,4,6-Trichlorophenol	350	U
86-74-8	Carbazole	350	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA | SDG Number: BR334

Matrix: (soil/water) SOLID | Lab Sample ID: C7H200116 003
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g | Date Received: 08/20/97
Work Order: CCCR4101 | Date Extracted: 08/28/97
Dilution factor: 1 | Date Analyzed: 09/10/97
Moisture %: 6.9

QC Batch: 7250108

Client Sample Id: T2-SB03-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000123-42-2	2-Pentanone, 4-Hydroxy-4-Met	2.8763	21000	JBA
57-10-3	Hexadecanoic acid	11.405	280	JB

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR5103
Dilution factor: 1
Moisture %: 2.1

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB04-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR5103
Dilution factor: 1
Moisture %: 2.1

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR5103
Dilution factor: 1
Moisture %: 2.1

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB04-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR5101
Dilution factor: 1
Moisture %: 2.1

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	**Benzo(ghi)perylene**	**360**	
50-32-8	Benzo(a)pyrene	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR5101
Dilution factor: 1
Moisture %: 2.1

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	850	U
51-28-5	2,4-Dinitrophenol	850	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	850	U
99-09-2	3-Nitroaniline	850	U
100-01-6	4-Nitroaniline	850	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	850	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
86-30-6	N-Nitrosodiphenylamine	340	U
87-86-5	Pentachlorophenol	850	U
85-01-8	Phenanthrene	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR5101
Dilution factor: 1
Moisture %:2.1

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	850	U
88-06-2	2,4,6-Trichlorophenol	340	U
86-74-8	Carbazole	340	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR5101
Dilution factor: 1
Moisture %:2.1

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: T2-SB04-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-Hydroxy-4-Met	2.8838	20000	JBA
	Unknown Cyclo Alkane	3.4548	91	J
57-10-3	Hexadecanoic acid	11.327	240	JB
192-97-2	Benzo[e]pyrene	17.565	92	J
	Unknown PAH	19.264	130	J
	Unknown	21.59	84	J

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR6103
Dilution factor: 1
Moisture %: 3.2

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB05-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR6103
Dilution factor: 1
Moisture %:3.2

Date Received: 08/20/97
Date Extracted:08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCCR6103
Dilution factor: 1
Moisture %: 3.2

Date Received: 08/20/97
Date Extracted: 08/21/97
Date Analyzed: 08/21/97

QC Batch: 7233185

Client Sample Id: T2-SB05-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID: C7H200116 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR6101
Dilution factor: 1
Moisture %: 3.2

Date Received: 08/20/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	Benzo(ghi)perylene	340	U
50-32-8	Benzo(a)pyrene	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR6101
Dilution factor: 1
Moisture %:3.2

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
51-28-5	2,4-Dinitrophenol	860	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	860	U
99-09-2	3-Nitroaniline	860	U
100-01-6	4-Nitroaniline	860	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	860	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
86-30-6	N-Nitrosodiphenylamine	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR6101
Dilution factor: 1
Moisture %:3.2

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
88-06-2	2,4,6-Trichlorophenol	340	U
86-74-8	Carbazole	340	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR334

Matrix: (soil/water) SOLID

Lab Sample ID:C7H200116 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCCR6101
Dilution factor: 1
Moisture %:3.2

Date Received: 08/20/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: T2-SB05-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-Hydroxy-4-Met	2.91	21000	JBA
57-10-3	Hexadecanoic Acid	11.4	160	JB

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKA103
Dilution factor: 1
Moisture %: 7.0

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
67-64-1	Acetone	11	U
71-43-2	Benzene	11	U
75-27-4	Bromodichloromethane	11	U
75-25-2	Bromoform	11	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	11	U
75-15-0	Carbon disulfide	11	U
56-23-5	Carbon tetrachloride	11	U
108-90-7	Chlorobenzene	11	U
124-48-1	Dibromochloromethane	11	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	11	U
74-87-3	Chloromethane	11	U
75-34-3	1,1-Dichloroethane	11	U
107-06-2	1,2-Dichloroethane	11	U
75-35-4	1,1-Dichloroethene	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
100-41-4	Ethylbenzene	11	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	11	U
108-10-1	4-Methyl-2-pentanone	11	U
100-42-5	Styrene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
71-55-6	1,1,1-Trichloroethane	11	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKA103
Dilution factor: 1
Moisture %: 7.0

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	11	U
79-01-6	Trichloroethene	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Xylenes (total)	11	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 002

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKA103
Dilution factor: 1
Moisture %: 7.0

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB01-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKA101
Dilution factor: 1
Moisture %: 7.0

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	350	U
208-96-8	Acenaphthylene	350	U
120-12-7	Anthracene	350	U
56-55-3	Benzo(a)anthracene	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
191-24-2	Benzo(ghi)perylene	350	U
50-32-8	Benzo(a)pyrene	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
111-44-4	bis(2-Chloroethyl) ether	350	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350	U
117-81-7	bis(2-Ethylhexyl) phthalate	350	U
101-55-3	4-Bromophenyl phenyl ether	350	U
85-68-7	Butyl benzyl phthalate	350	U
106-47-8	4-Chloroaniline	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-58-7	2-Chloronaphthalene	350	U
95-57-8	2-Chlorophenol	350	U
7005-72-3	4-Chlorophenyl phenyl ether	350	U
218-01-9	Chrysene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
132-64-9	Dibenzofuran	350	U
84-74-2	Di-n-butyl phthalate	350	U
95-50-1	1,2-Dichlorobenzene	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
120-83-2	2,4-Dichlorophenol	350	U
84-66-2	Diethyl phthalate	350	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKA101
Dilution factor: 1
Moisture %: 7.0

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	350	U
131-11-3	Dimethyl phthalate	350	U
117-84-0	Di-n-octyl phthalate	350	U
534-52-1	4,6-Dinitro-2-methylphenol	890	U
51-28-5	2,4-Dinitrophenol	890	U
121-14-2	2,4-Dinitrotoluene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
206-44-0	Fluoranthene	350	U
86-73-7	Fluorene	350	U
118-74-1	Hexachlorobenzene	350	U
87-68-3	Hexachlorobutadiene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
67-72-1	Hexachloroethane	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
78-59-1	Isophorone	350	U
91-57-6	2-Methylnaphthalene	350	U
95-48-7	2-Methylphenol	350	U
106-44-5	4-Methylphenol	350	U
91-20-3	Naphthalene	350	U
88-74-4	2-Nitroaniline	890	U
99-09-2	3-Nitroaniline	890	U
100-01-6	4-Nitroaniline	890	U
98-95-3	Nitrobenzene	350	U
88-75-5	2-Nitrophenol	350	U
100-02-7	4-Nitrophenol	890	U
621-64-7	N-Nitrosodi-n-propylamine	350	U
86-30-6	N-Nitrosodiphenylamine	350	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	350	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKA101
Dilution factor: 1
Moisture %: 7.0

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB01-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	350	U
129-00-0	Pyrene	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
95-95-4	2,4,5-Trichlorophenol	890	U
88-06-2	2,4,6-Trichlorophenol	350	U
86-74-8	Carbazole	350	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 002

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKA101
Dilution factor: 1
Moisture %: 7.0

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB01-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-Hydroxy-4-Met	2.8983	24000	ABJN
57-10-3	Hexadecanoic acid	11.406	320	BJN

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKC103
Dilution factor: 1
Moisture %: 4.3

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB02-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKC103
Dilution factor: 1
Moisture %: 4.3

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 003

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKC103
Dilution factor: 1
Moisture %: 4.3

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB02-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKC101
Dilution factor: 1
Moisture %: 4.3

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	Benzo(ghi)perylene	340	U
50-32-8	Benzo(a)pyrene	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKC101
Dilution factor: 1
Moisture %:4.3

Date Received: 08/21/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	870	U
51-28-5	2,4-Dinitrophenol	870	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	870	U
99-09-2	3-Nitroaniline	870	U
100-01-6	4-Nitroaniline	870	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	870	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
86-30-6	N-Nitrosodiphenylamine	340	U
87-86-5	Pentachlorophenol	870	U
85-01-8	Phenanthrene	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKC101
Dilution factor: 1
Moisture %: 4.3

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB02-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	870	U
88-06-2	2,4,6-Trichlorophenol	340	U
86-74-8	Carbazole	340	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 003

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKC101
Dilution factor: 1
Moisture %:4.3

Date Received: 08/21/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB02-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	2.9268	22000	ABJN
57-10-3	Hexadecanoic acid	11.398	180	BJN

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKD103
Dilution factor: 1
Moisture %: 2.5

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB03-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKD103
Dilution factor: 1
Moisture %:2.5

Date Received: 08/21/97
Date Extracted:08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 004

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKD103
Dilution factor: 1
Moisture %: 2.5

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB03-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKD101
Dilution factor: 1
Moisture %:2.5

Date Received: 08/21/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	**Benzo(b)fluoranthene**	**82**	**J**
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	**Benzo(ghi)perylene**	**390**	
50-32-8	**Benzo(a)pyrene**	**36**	**J**
111-91-1	bis(2-Chloroethoxy)methane	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKD101
Dilution factor: 1
Moisture %: 2.5

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	850	U
51-28-5	2,4-Dinitrophenol	850	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	**Indeno(1,2,3-cd)pyrene**	**480**	
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	850	U
99-09-2	3-Nitroaniline	850	U
100-01-6	4-Nitroaniline	850	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	850	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
86-30-6	N-Nitrosodiphenylamine	340	U
87-86-5	Pentachlorophenol	850	U
85-01-8	Phenanthrene	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKD101
Dilution factor: 1
Moisture %:2.5

Date Received: 08/21/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB03-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	850	U
88-06-2	2,4,6-Trichlorophenol	340	U
86-74-8	Carbazole	340	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 004

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKD101
Dilution factor: 1
Moisture %: 2.5

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB03-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-Hydroxy-4-Met	2.8938	23000	ABJN
57-10-3	Hexadecanoic acid	11.323	210	BJN
41464-42-0	1,1'-Biphenyl, 2,3',5,5'-tet	11.351	300	JN
41464-42-0	1,1'-Biphenyl, 2,3',5,5'-tet	11.687	89	JN
41464-42-0	1,1'-Biphenyl, 2,3',5,5'-tet	12.3	99	JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-p	12.379	440	JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-p	12.636	110	JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-p	12.729	1000	JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-p	12.807	280	JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-p	13.064	190	JN
38380-01-7	1,1'-Biphenyl, 2,2',4,4',5-p	13.143	360	JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-p	13.307	730	JN
18259-05-7	1,1'-Biphenyl, 2,3,4,5,6-pen	13.478	90	JN
38411-22-2	1,1'-Biphenyl, 2,2',3,3',6,6	13.664	340	JN
39485-83-1	1,1'-Biphenyl, 2,2',4,4',6-p	13.692	420	JN
52663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5	14.02	280	JN
26601-64-9	1,1'-Biphenyl, hexachloro- o	14.085	240	JN
26601-64-9	1,1'-Biphenyl, hexachloro- o	14.449	440	JN
69782-90-7	1,1'-Biphenyl, 2,3,3',4,4',5	14.863	86	JN
	Unknown	15.541	98	J
	Unknown	19.038	72	J
	Unknown PAH	19.266	260	J
	Unknown PAH	21.6	98	J

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKE103
Dilution factor: 1
Moisture %:3.4

Date Received: 08/21/97
Date Extracted:08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB04-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKE103
Dilution factor: 1
Moisture %:3.4

Date Received: 08/21/97
Date Extracted:08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 005

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKE103
Dilution factor: 1
Moisture %:3.4

Date Received: 08/21/97
Date Extracted:08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB04-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKE201
Dilution factor: 1
Moisture %: 3.4

Date Received: 08/21/97
Date Extracted: 09/15/97
Date Analyzed: 09/18/97

QC Batch: 7258133

Client Sample Id: TP3-SB04-1517 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	Benzo(ghi)perylene	340	U
50-32-8	Benzo(a)pyrene	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKE201
Dilution factor: 1
Moisture %: 3.4

Date Received: 08/21/97
Date Extracted: 09/15/97
Date Analyzed: 09/18/97

QC Batch: 7258133

Client Sample Id: TP3-SB04-1517 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
51-28-5	2,4-Dinitrophenol	860	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	860	U
99-09-2	3-Nitroaniline	860	U
100-01-6	4-Nitroaniline	860	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	860	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
86-30-6	N-Nitrosodiphenylamine	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKE201
Dilution factor: 1
Moisture %:3.4

Date Received: 08/21/97
Date Extracted:09/15/97
Date Analyzed: 09/18/97

QC Batch: 7258133

Client Sample Id: TP3-SB04-1517 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
88-06-2	2,4,6-Trichlorophenol	340	U
86-74-8	Carbazole	340	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA SDG Number: BR335

Matrix: (soil/water) SOLID Lab Sample ID:C7H210119 005
Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g Date Received: 08/21/97
Work Order: CCDKE201 Date Extracted:09/15/97
Dilution factor: 1 Date Analyzed: 09/18/97
Moisture %:3.4

QC Batch: 7258133

Client Sample Id: TP3-SB04-1517 -RE 1

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-hydroxy-4-met	2.96	44000	JNBA

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKE101
Dilution factor: 1
Moisture %: 3.4

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	Benzo(ghi)perylene	340	U
50-32-8	Benzo(a)pyrene	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKE101
Dilution factor: 1
Moisture %:3.4

Date Received: 08/21/97
Date Extracted:08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
51-28-5	2,4-Dinitrophenol	860	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	860	U
99-09-2	3-Nitroaniline	860	U
100-01-6	4-Nitroaniline	860	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	860	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
86-30-6	N-Nitrosodiphenylamine	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKE101
Dilution factor: 1
Moisture %: 3.4

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB04-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
88-06-2	2,4,6-Trichlorophenol	340	U
86-74-8	Carbazole	340	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 005

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKE101
Dilution factor: 1
Moisture %: 3.4

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/10/97

QC Batch: 7250108

Client Sample Id: TP3-SB04-1517

CAS NUMBER	COMPOUND NAME (ug/L or ug/kg)	RT	EST. CONC. ug/kg	Q
000123-42-2	2-PENTANONE, 4-HYDROXY-4-METH	2.91	25000	JNBA

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKF103
Dilution factor: 1
Moisture %:3.0

Date Received: 08/21/97
Date Extracted:08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB05-1517

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

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKF103
Dilution factor: 1
Moisture %:3.0

Date Received: 08/21/97
Date Extracted:08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-00-5	1,1,2-Trichloroethane	10	U
79-01-6	Trichloroethene	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	10	U

FORM I

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 006

Method: OCLP OLM03.1
Volatile Organics, GC/MS (CLP -OLM03.1)

Sample WT/Vol: 5 / g
Work Order: CCDKF103
Dilution factor: 1
Moisture %: 3.0

Date Received: 08/21/97
Date Extracted: 08/25/97
Date Analyzed: 08/25/97

QC Batch: 7237146

Client Sample Id: TP3-SB05-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NO TICS DETECTED			ND

FORM I - TIC

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKF101
Dilution factor: 1
Moisture %: 3.0

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	**Benzo(b)fluoranthene**	**50**	**J**
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	**Benzo(ghi)perylene**	**280**	**J**
50-32-8	**Benzo(a)pyrene**	**170**	**J**
111-91-1	bis(2-Chloroethoxy)methane	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name: QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID: C7H210119 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKF101
Dilution factor: 1
Moisture %: 3.0

Date Received: 08/21/97
Date Extracted: 08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
105-67-9	2,4-Dimethylphenol	340	U
131-11-3	Dimethyl phthalate	340	U
117-84-0	Di-n-octyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
51-28-5	2,4-Dinitrophenol	860	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	**Indeno(1,2,3-cd)pyrene**	**340**	
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	860	U
99-09-2	3-Nitroaniline	860	U
100-01-6	4-Nitroaniline	860	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	860	U
621-64-7	N-Nitrosodi-n-propylamine	340	U
86-30-6	N-Nitrosodiphenylamine	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	340	U

BROWN & ROOT ENVIRONMENTAL

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKF101
Dilution factor: 1
Moisture %:3.0

Date Received: 08/21/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB05-1517

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
88-06-2	2,4,6-Trichlorophenol	340	U
86-74-8	Carbazole	340	U

BROWN & ROOT ENVIRONMENTAL
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number: BR335

Matrix: (soil/water) SOLID

Lab Sample ID:C7H210119 006

Method: OCLP OLM03.1
Base/Neutrals and Acids (CLP-OLM03.1)

Sample WT/Vol: 30 / g
Work Order: CCDKF101
Dilution factor: 1
Moisture %:3.0

Date Received: 08/21/97
Date Extracted:08/28/97
Date Analyzed: 09/11/97

QC Batch: 7250108

Client Sample Id: TP3-SB05-1517

(ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
123-42-2	2-Pentanone, 4-Hydroxy-4-Met	2.8624	22000	ABJN
57-10-3	Hexadecanoic acid	11.327	180	BJN
26914-33-0	1,1'-Biphenyl, tetrachloro-	11.348	88	JN
10544-50-0	Sulfur, mol. (s8)	12.219	100	JN
38380-03-9	1,1'-Biphenyl, 2,3,3',4',6-p	12.369	110	JN
38380-01-7	1,1'-Biphenyl, 2,2',4,4',5-p	12.719	250	JN
25429-29-2	1,1'-Biphenyl, pentachloro-	13.297	170	JN
31508-00-6	1,1'-Biphenyl, 2,3',4,4',5-p	13.682	82	JN
26601-64-9	1,1'-Biphenyl, hexachloro- o	14.446	92	JN
	Unknown PAH	17.294	79	J
192-97-2	Benzo[e]pyrene	17.572	230	JN
	Unknown PAH	19.264	150	J
	Unknown	21.597	82	J
	Unknown	21.819	84	J
	Unknown	21.926	77	J

APPENDIX B

TEST PIT LOG SHEETS

TEST PIT LOG

Brown & Root Environmental

PROJECT: CTO 270 - NWIRP Calverton TEST PIT NO.: 01

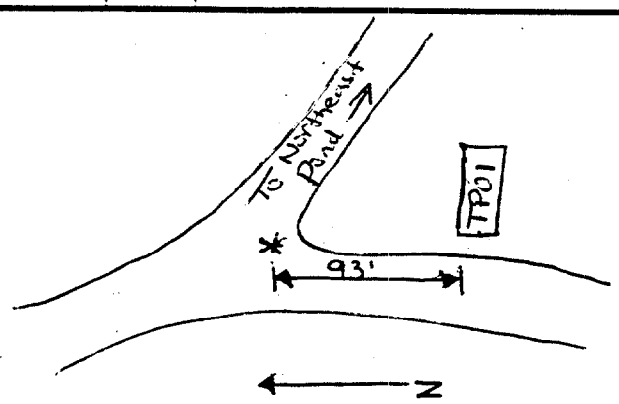
PROJECT NO.: 7398-0310 DATE: 5/6/97

LOCATION: Site 1 : Northeast Pond

FIELD GEOLOGIST: S. Patselas

DEPTH (ft.)	LITHOLOGY CHANGE (Depth, ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0.0		Loose - yellow brown silty sand with well-rounded pebbles	SM	
1.5'				
		Light brown to tan sand with some clay lenses at 4.0' and well-rounded pebbles		
5.0'				
		Loose gray/white beach sand of fine-particle size		
8.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View



4'w x 18' L x 8'd

REMARKS No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. West end of TP01 about 4' from road.

PHOTO LOG

TEST PIT 01

PAGE ____ OF

TEST PIT LOG

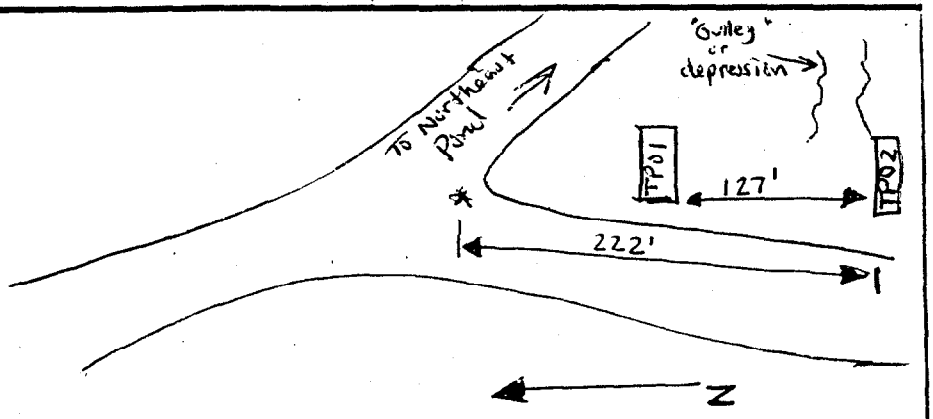
Brown & Root Environmental

PROJECT: CTO 270 - NWIRP Calverton TEST PIT NO.: 02
PROJECT NO.: 7398-0310 DATE: 5/6/97
LOCATION: Site 1 : Northeast Pond
FIELD GEOLOGIST: S. Patselas

DEPTH (ft.)	LITHOLOGY CHANGE (Depth, ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0		Loose - orange brown silty	SM	
		sand w/ well-rounded pebbles		
1.5'				
		Loose brown-gray sand		
		w/ well-rounded pebbles		
		Orange-brown-white marble layer at 4.0'		
5.0'				
		Loose gray/white beach		
		sand of fine-particle size		
8.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View

Refer to TP01 cross-section



2'-3.5'w x 18'l x 8'd

REMARKS No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. West end of TP02 about 6' from road.

PHOTO LOG

TEST PIT 02

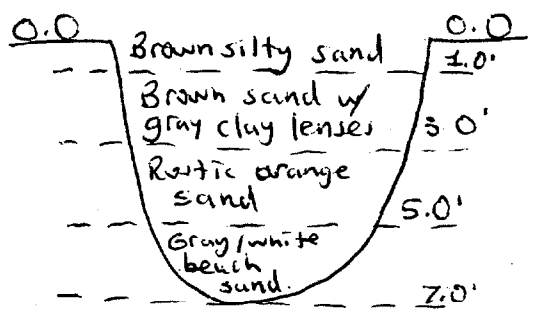
PAGE ____ OF ____

TEST PIT LOG — **Brown & Root Environmental**

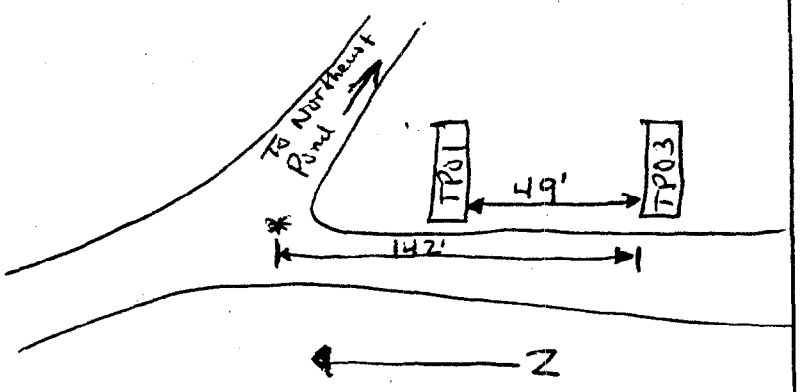
PROJECT: CTO 270 - NWIRP Calverton TEST PIT NO.: 03
PROJECT NO. 7398-0310 DATE: 5/6/97
LOCATION: Site 1 : Northeast Pond
FIELD GEOLOGIST: S. Patselas

DEPTH (ft.)	LITHOLOGY CHANGE (Depth ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0.0		Loose brown silty sand	SM	
		w/ well-rounded pebbles		
1.0'				
		Brown sand w/ gray clay		
		lenses and well-rounded		
		pebbles		
3.0				
		Rustic orange sand w/		
		well-rounded pebbles		
5.0'				
		Loose gray/white beach		
		sand of fine particle size		
7.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View



2'-4' w x 18' l x 8' d



REMARKS No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. West end of TP03 about 4' from road.

PHOTO LOG

TEST PIT 03

PAGE ____ OF

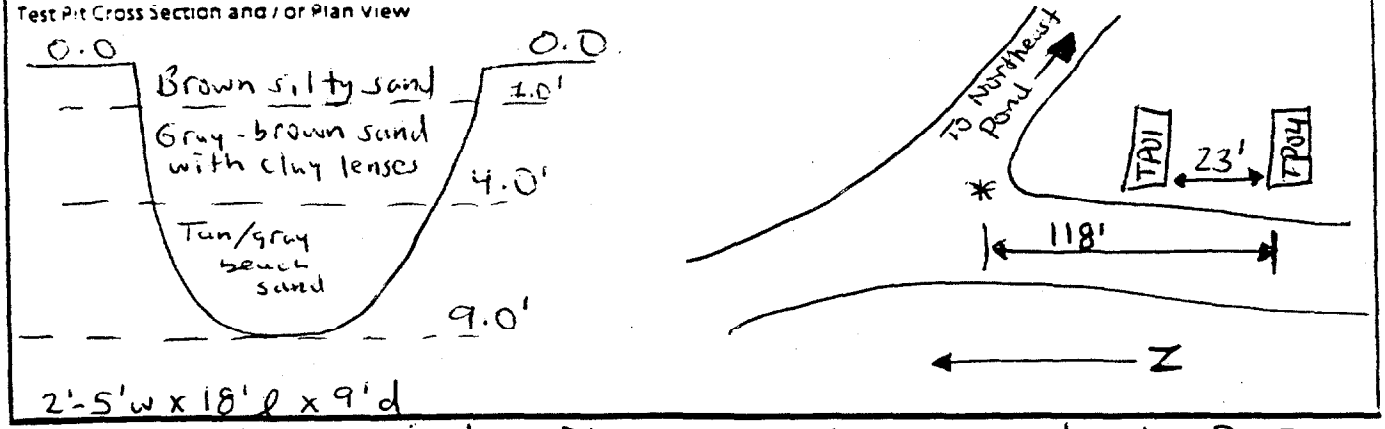
TEST PIT LOG

Brown & Root Environmental

PROJECT: CTO 270 - NWIRP Calverton TEST PIT NO.: 04
PROJECT NO.: 7398-0310 DATE: 5/6/97
LOCATION: Site 1 : Northeast Pond
FIELD GEOLOGIST: S. Patselus

DEPTH (ft.)	LITHOLOGY CHANGE (Depth, ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0.0		Loose brown silty sand	SM	
		w/ well rounded pebbles		
1.0'				
		Gray-brown sand w/ clay		
		lenses and well rounded		
		pebbles		
4.0'				
		Loose tan/gray beach		
		sand of fine particle size		
9.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View



2'-5' w x 18' l x 9' d

REMARKS No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. West end of TP04 about 4' from road.

PHOTO LOG

TEST PIT 04

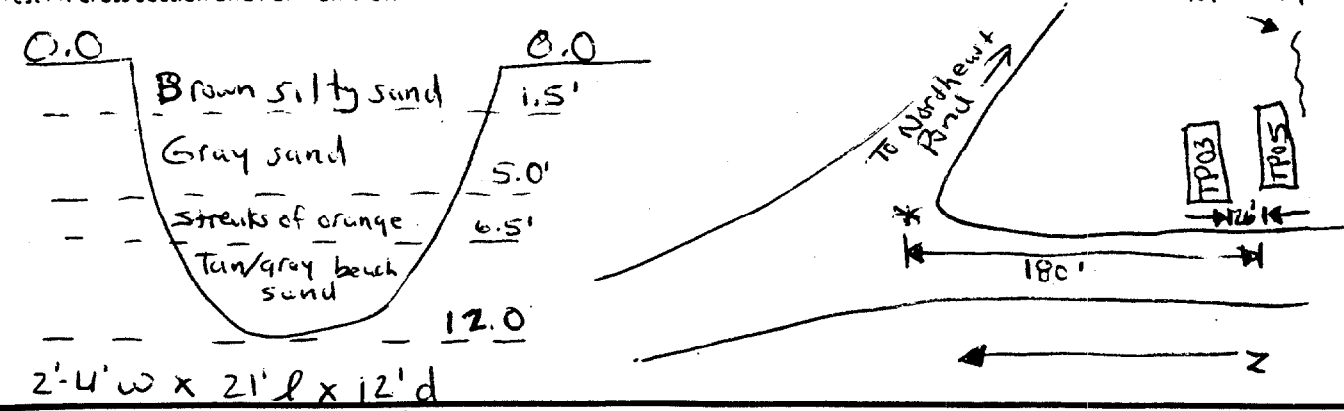
PAGE ____ OF

TEST PIT LOG

PROJECT: CTO 270 - NWIRP Calverton TEST PIT NO.: 05
PROJECT NO. 7398-0310 DATE: 5/6/97
LOCATION: Site 1 : Northeast Pond
FIELD GEOLOGIST: S. Patselas

DEPTH (ft.)	LITHOLOGY CHANGE (Depth, ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0.0		Loose light brown silty sand w/ well rounded pebbles	SM	
1.5'				
		Gray sand w/ well rounded pebbles		
5.0'				
		Streaks of orange colored sand		
6.5'				
		Loose gray/tan beach sand of fine particle size		
12.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View



REMARKS No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. west end of TP05 is about 6' from road.

PHOTO LOG

TEST PIT 05

PAGE OF

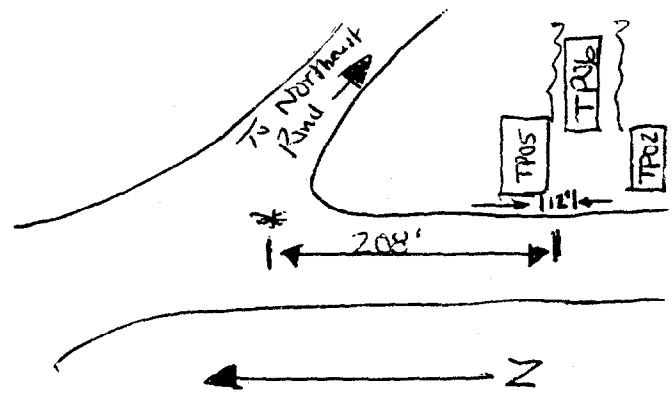
TEST PIT LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT: CTO 270 - NWIRP Calverton TEST PIT NO.: 06
PROJECT NO. 7398-0310 DATE: 5/6/97
LOCATION: Site 1 : Northeast Pond
FIELD GEOLOGIST: S. Patselas

DEPTH (ft.)	LITHOLOGY CHANGE (Depth, ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0.0		Loose brown silty sand	SM	
		w/ well rounded pebbles		
1.5'				
		Orange colored sand		
3.0'				
		Gray/white beach sand of		
		fine particle size		
8.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View



3'w x 12'l x 8'd

REMARKS No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. west end of TP06 is about 45' from road.

PHOTO LOG

TEST PIT 06

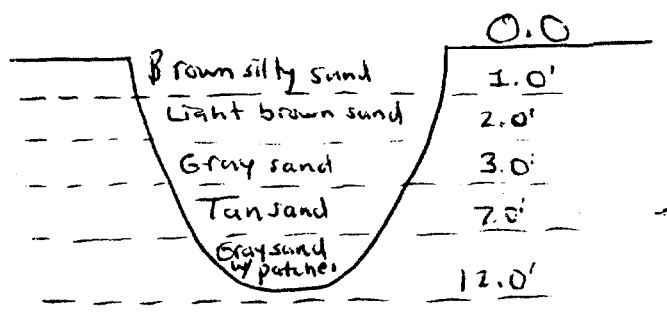
PAGE ___ OF

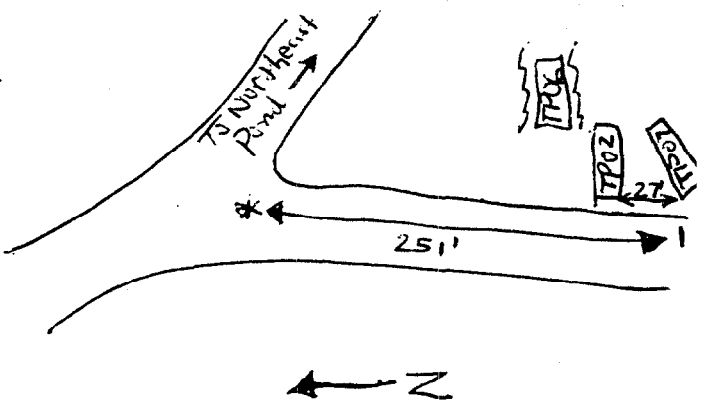
TEST PIT LOG

PROJECT: CTO 270 - NWIRP Calverton TEST PIT NO.: 07
PROJECT NO.: 7398-0310 DATE: 5/6/97
LOCATION: Site 1 : Northeast Pond
FIELD GEOLOGIST: S. Patselas

DEPTH (ft.)	LITHOLOGY CHANGE (Depth ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0.0		Loose brown silty sand w/ well	SM	
		rounded pebbles and roots		
1.0'				
		Light brown sand w/ well rounded pebbles		
2.0'				
		Gray sand sand w/ well rounded pebbles		
3.0'				
		Tan sand w/ well rounded pebbles		
7.0'		Gray sand w/ patches of		
		brown, orange, white layering		
12.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View





2'-4' w x 15' l x 12' d

REMARKS No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. west end of TP07 is about 8' from road.

PHOTO LOG

TEST PIT 07

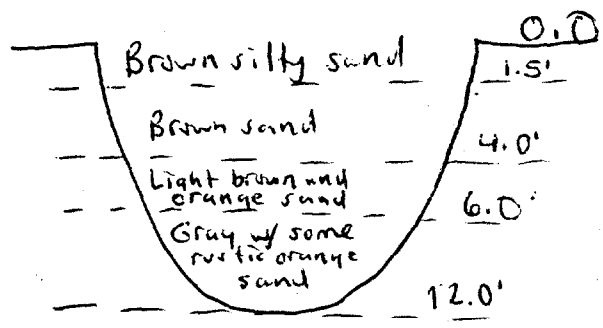
PAGE OF

TEST PIT LOG — BROWN & ROOT ENVIRONMENTAL

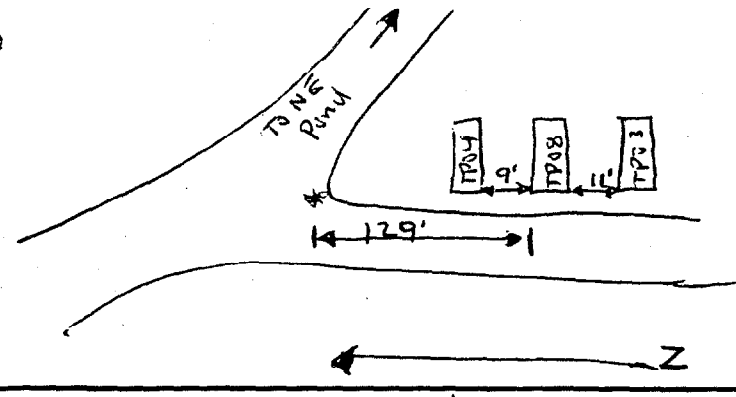
PROJECT: CTO 270 - NWIRP Calverton — TEST PIT NO.: 08
PROJECT NO.: 7398-0310 — DATE: 5/6/97
LOCATION: Site 1 : Northeast Pond
FIELD GEOLOGIST: S. Patselas

DEPTH (ft.)	LITHOLOGY CHANGE (Depth, ft.)	MATERIAL DESCRIPTION (Soil Density / Consistency, Color)	USCS	REMARKS
0.0		Loose brown silty sand w/ well	SM	
		rounded pebbles		
1.5'				
		Brown sand w/ well rounded pebbles		
4.0'				
		Light brown and orange sand		
		w/ well rounded pebbles		
6.0'				
		Gray w/ some rustic orange		
		sand of fine particle size		
12.0'				
		No evidence of fill material		

Test Pit Cross Section and / or Plan View



2'-5'w x 18'l x 12'd



REMARKS: No stained soil or objects observed. No PID readings measured in soil pile. Test pit filled in with excavated soil and graded. No samples taken. West end of TP08 is about 6' from road.

PHOTO LOG

TEST PIT 08

PAGE ___ OF ___

APPENDIX C

SAMPLE LOG SHEETS

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW01-062397
Sample Location: NORTH POND
Sampled By: T. SAWYER / E. HESS
C.O.C. No.: 01W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6/23/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1345								
Method: slow flow / GRAB	Clear	5.21	.063	13.2	0	9.25	0.00	

PURGE DATA:

Date: 6/23/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: SLOW FLOW	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: PVC - 4"	3		See purge sheet					
Total Well Depth (TD): 51.68								
Static Water Level (WL): 43.78								
One Casing Volume (gal/L) ~20								
Start Purge (hrs): 1240								
End Purge (hrs): 1340								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L) 80								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	6 x 40 ML VIAL	✓
SVOC'S	Ice to 4°C	6 x Liter amber	✓
PEST/PCB'S	Ice to 4°C	6 x Liter amber	✓
METALS	HNO3	2 / Liter Plastic	✓

OBSERVATIONS / NOTES:

MS/MSD

Circle if Applicable:

MS/MSD X

Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: NP-MW02-062
Sample Location: NORTH POND
Sampled By: T. SAWYER / E. HESS
C.O.C. No.: #0216
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 6/24/97								
Time: 1015								
Method: slow flow / GRAB	Clear	6.89	2.00	13.4	0	-0.59	0.00	—

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 6/24/97								
Method: SLOW FLOW	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: PVC	3		See purge sheet					
Total Well Depth (TD): 26.55								
Static Water Level (WL): 17.15								
One Casing Volume (gal/L): 5.8								
Start Purge (hrs): 0936								
End Purge (hrs): 1010								
Total Purge Time (min): 34								
Total Vol. Purged (gal/L): 34								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	2 40 ML VIAL	✓
SVOC'S	ICE to 4°C	2 Liter amber	✓
PEST/PCB'S	ICE to 4°C	2 Liter amber	✓
METALS	HNO3	1 Liter Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW02-I-06
Sample Location: NORTH POND
Sampled By: T. SAWYER / E. HESS
C.O.C. No.: #02 I
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/24/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0905	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Slow flow / GRAB	Clear	6.09	.484	12.9	0	2.02	0.0	—

PURGE DATA:

Date: 6/24/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: SLOW FLOW	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: PVC	3		See purge sheet					
Total Well Depth (TD): 71								
Static Water Level (WL): 17.09								
One Casing Volume (gal/L): 3.558								
Start Purge (hrs): 0815								
End Purge (hrs): 0900								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 50								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	2 40 mL VIAL	✓
SVOC'S	Ice to 4°C	2 Liter amber	✓
PEST/PCB'S	Ice to 4°C	2 Liter amber	✓
METALS	HNO3	1 Liter Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW03
Sample Location: NORTH POND
Sampled By: T. SAWYER / E. HESS
C.O.C. No.: 01W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6/23/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1710								
Method: Low flow / GRAB	CLEAR	6.04	.268	13.9	0	-0.44	6.0	

PURGE DATA:

Date: 6/23/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: LOW FLOW	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: PVC	3		See Purge					
Total Well Depth (TD): 24.77				Sheet				
Static Water Level (WL): 15.79								
One Casing Volume(gal/L): 6								
Start Purge (hrs): 1550								
End Purge (hrs): 1705								
Total Purge Time (min): 75								
Total Vol. Purged (gal/L): 72								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	2 40 ML VIAL	✓
SVOC'S	ICE to 4°C	2 Liter amber	✓
PEST/PCB'S	ICE to 4°C	2 Liter amber	✓
METALS	HNO3	1 Liter Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): Teresa Dawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW04-062397
Sample Location: NORTH POND
Sampled By: T. SAWYER/E. HESS
C.O.C. No.: 0160
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/23/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1530	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Slow flow/GRAB	Clear	5.10	.064	14.5	0	7.37	0.02	

PURGE DATA:

Date: 6/23/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: SLOW FLOW	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: PVC 4"	3							
Total Well Depth (TD): 47.05			See	Purge	Sheet			
Static Water Level (WL): 40.04								
One Casing Volume(gal/L): N/A								
Start Purge (hrs): 1425								
End Purge (hrs): 1525								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 55								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	4 x 40 ML VIAL	✓
SVOC'S	ICE to 4°C	4 x Liter amber	✓
PEST/PCB'S	ICE to 4°C	4 x Liter amber	✓
METALS	HNO3	2 x Liter Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
	NP-DUP01W

Signature(s): Teresa Dauzer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW05-0624
Sample Location: NORTH POND
Sampled By: T. SAWYER / E. HESS
C.O.C. No.: # 02W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/24/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time:	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Slow flow / GRAB	Clear	5.56	.067	13.3	0	3.78	0.00	

PURGE DATA:

Date: 6/24/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: SLOW FLOW	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: PVC 4"	3		See purge sheet					
Total Well Depth (TD): 15.62								
Static Water Level (WL): 8.59								
One Casing Volume (gal/L): 18.4								
Start Purge (hrs): 1145								
End Purge (hrs): 1225								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 29								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	2 40 ML VIAL	✓
SVOC'S	ice to 4°C	2 liter amber	✓
PEST/PCB'S	ice to 4°C	2 liter amber	✓
METALS	HNO3	1 liter Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW06-062497
Sample Location: NORTH POND
Sampled By: T. SAWYER/E. HESS
C.O.C. No.: #020
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6/24/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1130								
Method: Slow flow/GRAB	Clear	5.89	.070	14.2	1	-0.52	0.00	—

PURGE DATA:

Date: 6/24/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: SLOW FLOW	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: PVC	3							
Total Well Depth (TD): 15.53			See purge sheet					
Static Water Level (WL): 4.65								
One Casing Volume (gal/L): 28.8								
Start Purge (hrs): 1100								
End Purge (hrs): 1125								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 19								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	2 40 ML VIAL	✓
SVOC'S	Ice to 4°C	2 Liter amber	✓
PEST/PCB'S	Ice to 4°C	2 Liter amber	✓
METALS	HNO3	1 Liter Plastic	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: FT-MW02S-06259
Sample Location: Fire Training Area
Sampled By: T. Sawyer / E. Hess
C.O.C. No.: #031V
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 6/25/97								
Time: 1800								
Method: Grab								

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 6/25/97								
Method: bailer teflon	Initial							
Monitor Reading (ppm): -	1							
Well Casing Diameter & Material	2							
Type: 4" PVC	3							
Total Well Depth (TD): 20.5								
Static Water Level (WL): 12.5								
One Casing Volume(gal/L): 20								
Start Purge (hrs): 1720								
End Purge (hrs): 1800								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 60								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	HCL	2 40 ml VIAL	✓

OBSERVATIONS / NOTES:

DID NOT DO WATER QUALITY MEASUREMENTS
Because free product present

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Hewson

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Colverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW05-I
Sample Location: FIRE TRAINING AREA
Sampled By: T. Sawyer/E. Hess
C.O.C. No.: #03W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/25/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1115	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: GRAB	clear	5.43	.058	11.9	0	7.0		

PURGE DATA:

Date: 6/25/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Sub. Pump	Initial 1040	5.71	.056	13.5	12	8.11	0	
Monitor Reading (ppm): —	1 1047	5.43	.058	12.3	5	5.44	0	
Well Casing Diameter & Material	2 1054	5.46	.058	12.4	3	5.36	0	
Type: 4" PVC	3 1101	5.45	.058	12.0	1	6.42	0	
Total Well Depth (TD): 60.18	4 1108	5.43	.058	11.9	0	7.00	0	
Static Water Level (WL): 11.41								
One Casing Volume(gal/L): 32.19								
Start Purge (hrs): 1040								
End Purge (hrs): 1110								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 200								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	HCL	2 40 ml VIAL	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Hawkins

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP - Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW05-S-062597
Sample Location: FIRE TRAINING AREA
Sampled By: T. Sawyer / E. Hess
C.O.C. No.: #036
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Date: 6/25/97								
Time: 1130								
Method: GRAB								

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 6/25/97								
Method: ~~sub. pump~~ disp. bailer	Initial	4.91	.065	13.0	21	3.27	0	
Monitor Reading (ppm): —	1	5.28	.066	12.7	90	3.54	0	
Well Casing Diameter & Material	2	5.43	.067	12.3	97	3.20	0	
Type: 4" PVC	3	5.45	0.66	12.9	51	2.13	0	
Total Well Depth (TD): 19.97								
Static Water Level (WL): 10.99								
One Casing Volume(gal/L): 5.92								
Start Purge (hrs): 1045								
End Purge (hrs): 1125								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 18								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	HCL	2 40 ml VIAL	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW06-S-0625
Sample Location: FT-MW06-S
Sampled By: T. Sawyer / E. Hess
C.O.C. No.: #036
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/25/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1020	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: GRAB	Clear	5.16	.057	11.7	65	6.92	0	

PURGE DATA:

Date: 6/25/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Teflon Bailer	Initial	4.84	.064	16.2	111	8.03	0	
Monitor Reading (ppm): 0	1	5.10	.057	11.4	132	6.40	0	
Well Casing Diameter & Material	2	5.13	.057	11.4	75	7.13	0	
Type: 4" PVC	3	5.16	.057	11.7	65	6.92	0	
Total Well Depth (TD): 29.10								
Static Water Level (WL): 20.10								
One Casing Volume(gal/L): 5.94								
Start Purge (hrs): 0910								
End Purge (hrs): 1005								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 18								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	HCL	2 40 ml VIAL	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [illegible] Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.:
Sample Location: FT-MW06I-0625 7
Sampled By: T. Sawyer/E. Hess
C.O.C. No.: #03W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 6/25/97								
Time: 0950								
Method: GRAB	Clear	6.56	.100	11.8	2	7.26	0	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 6/25/97								
Method: Submersible Pump	Initial	6.49	.085	12.7	19	7.49	0	
Monitor Reading (ppm): 0	924 1	6.67	.093	12.5	6	7.32	0	
Well Casing Diameter & Material	932 2	6.55	.097	11.8	3	6.98	0	
Type: 4" PVC	940 3	6.83	.099	11.8	3	7.18	0	
Total Well Depth (TD): 75.80	948 4	6.56	.100	11.8	2	7.26	0	
Static Water Level (WL): 21.13								
One Casing Volume(gal/L): 36.08								
Start Purge (hrs): 0916								
End Purge (hrs): 0945								
Total Purge Time (min): 29								
Total Vol. Purged (gal/L): 150 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	HCL	2 40 ml VIAL	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD

Duplicate ID No.: FT-DUP02-W

Signature(s): Teresa Schwarzer [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW08-S-060597
Sample Location:
Sampled By: T. Sauerick/E. Hess
C.O.C. No.:
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 6/25/97								
Time: 1220								
Method: QYOD	clear	5.49	.065	13.2	149	2.34	0	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 6/25/97								
Method: Teflon Bailer	Initial	4.77	.051	14.6	4	2.07	0	
Monitor Reading (ppm): –	1	4.79	.060	14.0	129	1.33	0	
Well Casing Diameter & Material	2	5.04	.060	15.1	150	1.61	0	
Type: 4" PVC	3	5.49	.065	13.2	149	2.34	0	
Total Well Depth (TD): 16.05								
Static Water Level (WL): 7.52								
One Casing Volume(gal/L): 5.6								
Start Purge (hrs): 1125								
End Purge (hrs): 1215								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 17								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	HCL	2 40 ml VIAL	

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-Galveston
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW08-I-062
Sample Location: Fire Training
Sampled By: Bauer E Hdsc
C.O.C. No.: #C3W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 6/25/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1240								
Method: Grab								

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 6/25/97								
Method: sub pump	Initial 1210	6.61	.269	12.6	26	0.98	0.01	
Monitor Reading (ppm): —	1 1215	6.69	.257	12.0	5	1.19	0.00	
Well Casing Diameter & Material	2 1220	6.69	.257	11.9	3	1.23	0	
Type: 4" PVC	3 1225	6.46	.254	12.0	4	0.62	0	
Total Well Depth (TD): 35.63	4 1230							
Static Water Level (WL): 7.64								
One Casing Volume(gal/L): 18.47								
Start Purge (hrs): 1210								
End Purge (hrs): 1230								
Total Purge Time (min): 20								
Total Vol. Purged (gal/L): 100								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Colverton
Project No.: 7398

[] Domestic Well Data
[] Monitoring Well Data
[X] Other Well Type: ~~Temp Well~~
[] QA Sample Type: IRRIGATION WELL

Sample ID No.: GCIW-GW01
Sample Location: Golf Course Irrigation
Sampled By: TERESA SAWYER
C.O.C. No.: 04W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 7/10/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1230								
Method: GRAB								

PURGE DATA:

Date: 7/10/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: grab from sprinkler	Initial							
Monitor Reading (ppm): —	1	593	.074	13.4	13	1.69		
Well Casing Diameter & Material	2	602	.067	13.0	17	0.74		
Type: unknown	3	6.01	.066	12.9	12	0.68		
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	ice to 4°C	2 40 mL VIALS	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Colverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FD-MW07-062597
Sample Location: FUEL DEPOT
Sampled By: T. Sawyer / E Huss
C.O.C. No.: #D63W
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 6/25/97								
Time: 1430								
Method: grab	clear	5.55	.046	11.8	4	6.13	0	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 6/25/97								
Method: sub. pump	Initial	5.05	.046	12.7	155	~~6.3~~ 6.63	0	
Monitor Reading (ppm): –	2.5	5.33	.045	12.7	69	6.24	0	
Well Casing Diameter & Material	4.0	5.34	.046	12.1	29	5.79	0	
Type: 4" PVC	6.0	5.35	.046	11.8	4	6.13	0	
Total Well Depth (TD): 22.97								
Static Water Level (WL): 15.12								
One Casing Volume(gal/L): 5.18								
Start Purge (hrs): 1400								
End Purge (hrs): 1430								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 50								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	2 40 ml vial	✓

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Teresa Sawyer

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Puberton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW 01
Sample Location: Northeast Pond
Sampled By: S. Putselw
C.O.C. No.: #4 of 5
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 11/13/97								
Time: 1635								
Method: slow flow	clear	5.11	0.057	13.7	0.0	7.25	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/13/97								
Method: submersible pump	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: 4" PVC	3	see	low	flow	purge	data	sheet	
Total Well Depth (TD): 51.68'								
Static Water Level (WL): 45.87								
One Casing Volume (gal/L): 3.79								
Start Purge (hrs): 1555								
End Purge (hrs): 1625								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 8								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl 4°C	(2) 40ml. vials	✓
TCL SVOC	4°C	(2) 1 L ambers	✓
TCL Pest./PCB	4°C	(2) 1 L ambers	✓
metals	HNO3, 4°C	(1) 1L poly	✓

OBSERVATIONS / NOTES:

Set pump approximately 47' below TOC
Pump flow rate at 900 ml/minute
Use 3/8" teflon tube

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW02-S
Sample Location: Northeast Pond
Sampled By: P. Davis / S. Patsalas
C.O.C. No.: #2
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/11/97								
Time: 1545	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Slow Flow	Clear	6.75	1.93	14.3	4	2.69	0.09	—

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/11/97								
Method: Slow Flow	Initial	~~6.70~~	~~1.87~~		~~38~~			
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: 4" - PVC	3		See	page	2			
Total Well Depth (TD): 26.80								
Static Water Level (WL): 19.40								
One Casing Volume (gal/L): 4.83								
Start Purge (hrs): ~~1450~~ 1500								
End Purge (hrs): 1540								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 9								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCL	(2) 40 ml vials	✓
TCL SVOC	4°	(2) 1 L ambers	✓
TCL Pest. / PCB's	4°	(2) 1 L ambers	✓
metals	HNO3	(1) 1 L poly	✓

OBSERVATIONS / NOTES:

Set pump at 22' btoc
pump flow = 950 ml/min
Using Teflon 3/8" tubing

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Paul M. Davis

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW02-I
Sample Location: North East Pond
Sampled By: P. Davis / S. Patselas
C.O.C. No.: #2
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/11/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1655								
Method: Slow Flow	Clear	6.47	0.229	12.2	1	5.41	0.00	—

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/11/97								
Method: Slow Flow	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: 4" PVC	3		See	page	2			
Total Well Depth (TD): 71.18								
Static Water Level (WL): 18.99								
One Casing Volume (gal/L): 34.08								
Start Purge (hrs): 1600								
End Purge (hrs): 1650								
Total Purge Time (min): 50								
Total Vol. Purged (gal/L): 50								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCL	(2) 40 ml vials	✓
TCL SVOC	4°	(2) 1L ambers	✓
TCL Pest. / PCB's	4°	(2) 1L ambers	✓
metals	HNO3	(1) 1L poly	✓

OBSERVATIONS / NOTES:

place pump at 66' btoc
pump flow = 1000 ml/min.
Using Teflon 3/8" tubing.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Paul M. D[illegible]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 7398-0201

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: NP-MW03
Sample Location: Northeast Pond
Sampled By: ~~#4~~ S. Patel
C.O.C. No.: ~~#4~~ of 5
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/13/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1010								
Method: slow flow	clear	5.85	0.220	15.9	0	1.40	0.0	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/13/97								
Method: submersible pump	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2	see low flow purge data sheet						
Type: 4" PVC	3							
Total Well Depth (TD): 24.77'								
Static Water Level (WL): 17.78'								
One Casing Volume (gal/L): 4.56								
Start Purge (hrs): 0855								
End Purge (hrs): 0925								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 8								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl, 4°C	(8) 40ml. Vials	✓
TCL SVOC	4°	(8) 1 L amber	✓
TCL Pest./PCB	4°	(8) 1 L amber	✓
Metals	HNO_3, 4°C	(4) 1 L poly	✓

OBSERVATIONS / NOTES:

Pump set approximately 20' below TOC
Pump flow at 1000 ml./minute
Use 3/8" teflon tube

Circle if Applicable:

MS/MSD: X
Duplicate ID No.: DUP-02

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 7398 / CTO 270

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW04
Sample Location: Northeast Pond
Sampled By: Stavros Pats elas
C.O.C. No.: #4
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/13/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1450								
Method: slow flow	clear	4.77	0.053	13.3	0.0	7.96	0.00	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/13/97								
Method: submersible pump	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2	See	low	flow	purge	data	sheet	
Type: 4" PVC	3							
Total Well Depth (TD): 47.21'								
Static Water Level (WL): 42.08'								
One Casing Volume (gal/L): 3.35								
Start Purge (hrs): 1405								
End Purge (hrs): 1440								
Total Purge Time (min): 25								
Total Vol. Purged (gal/L): 7								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl, 4°C	(2) 40ml vials	✓
TCL SVOC	4°C	(2) 1 L Ambers	✓
TCL Pest./PCB	4°C	(2) 1 L Ambers	✓
Metals	HNO_3, 4°C	(1) 1 L Poly	✓

OBSERVATIONS / NOTES:

Pump set approximately 45' below TOC
Pump flow rate = 1000 ml/minute
Use 3/8" teflon tubing

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW05
Sample Location: Northeast Pond
Sampled By: S. Petselas
C.O.C. No.: #3
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11/12/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 11:55	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: slow flow	Clear	5.34	0.063	15.0	0.0	2.79	0.00	—

PURGE DATA:

Date: 11/12/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: submersible pump	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: 4" PVC	3		See low flow purge data sheet					
Total Well Depth (TD): 15.82								
Static Water Level (WL): 10.50								
One Casing Volume (gal/L): 3.47								
Start Purge (hrs): 1115								
End Purge (hrs): 1150								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 10.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl, 4°	(2) 40 ml VIALS	✓
TCL SVOC	4°	(2) 1 L ambers	✓
TCL Pest./PCB	4°	(2) 1 L ambers	✓
metals	HNO_3, 4°	(1) 1 L poly	✓

OBSERVATIONS / NOTES:

pump set at approximately 13' below TOC
pump flow between 950 to 1000 ml/minute
Use 3/8" teflon tubing

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWI RP Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: NP-MW06
Sample Location: Northeast Pond
Sampled By: S. Patselas
C.O.C. No.: #3
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 0945								
Time: 0945								
Method: slow flow	clear	5.73	0.070	14.9	0	2.14	0.00	—

PURGE DATA:

Date: 11/12/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: submersible pump	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2	see low flow purge data sheet						
Type: 4" PVC	3							
Total Well Depth (TD): 15.57'								
Static Water Level (WL): 6.58'								
One Casing Volume(gal/L):								
Start Purge (hrs): 0907								
End Purge (hrs): 0937								
Total Purge Time (min): 30								
Total Vol. Purged (gal/L): 8 gal.								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl, 4°C	(2) 40 ml vials	✓
TCL SVOC	4°C	(2) 1 L ambers	✓
TCL Pest./PCB	4°C	(2) 1 L ambers	✓
Metals	HNO_3, 4°C	(1) 1 L poly	✓

OBSERVATIONS / NOTES:

Pump set at 10.5 feet below TOC
Pump flow at 1000 ml/minute
Use 3/8" teflon tubing

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 7398-0201

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW05-S
Sample Location: Fire Training
Sampled By: S. Patsela
C.O.C. No.: # 1 of 5
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	Salinity %	Other NA
Date: 11/10/97								
Time: 1720								
Method: Disposable bailer	clear	5.18	0.060	12.4	0	2.19	0.0	

PURGE DATA:

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/10/97								
Method: hand bail	Initial	4.78	0.056	12.3	0	2.06	0.0	
Monitor Reading (ppm): ——	1	5.16	0.059	12.2	10	2.88	0.0	
Well Casing Diameter & Material	2	5.14	0.059	12.3	0	3.92	0.0	
Type: 4" PVC	3	5.18	0.060	12.4	0	2.19	0.0	
Total Well Depth (TD): 19.97'								
Static Water Level (WL): 12.37'								
One Casing Volume (gal/L): 4.96								
Start Purge (hrs): 1600								
End Purge (hrs): 1710								
Total Purge Time (min): 70								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl	(2)-40ml. vials	✓

OBSERVATIONS / NOTES:

Sample collected approximately 15' below TOC

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP - Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT- MW05-I
Sample Location: Fire Training Area
Sampled By: P. Davis/S. Pitsko
C.O.C. No.: # 2
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11/11/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1205	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: Disp. Bailer	Clear	5.40	0.051	11.6	0	7.27	0.00	

PURGE DATA:

Date: 11/11/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Sub. Pump	Initial	5.63	0.057	12.6	200	11.56	0.00	
Monitor Reading (ppm):	1	5.43	0.051	11.7	0	7.21	0.00	
Well Casing Diameter & Material	2	5.40	0.051	11.8	0	7.22	0.00	
Type: PVC - 4"	3	5.40	0.051	11.6	0	7.27	0.00	
Total Well Depth (TD): 60.18								
Static Water Level (WL): 12.79								
One Casing Volume (gal/L): 31								
Start Purge (hrs): 1120								
End Purge (hrs): 1200								
Total Purge Time (min): 40								
Total Vol. Purged (gal/L): 100								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCL	(2) 40 ml vials	✓

OBSERVATIONS / NOTES:

Place pump 18' btoc
pump flow: 2.5 GPM
collect sample at 55' btoc

Circle if Applicable:

MS/MSD	Duplicate ID No.: - Dup-01

Signature(s): Paul M. Davis

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP- Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW06-S
Sample Location: Fire Training Area
Sampled By: P.Davis/S. Pakelas
C.O.C. No.: # 2
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11/11/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 0900	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: disposable bailer	Rusty	4.99	0.051	10.8	63	10.91	0.00	

PURGE DATA:

Date: 11/11/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: hand bailer	Initial	4.22	0.055	8.3	61	12.10	0.00	
Monitor Reading (ppm): —	1	4.74	0.055	10.4	61	10.80	0.00	
Well Casing Diameter & Material	2	4.85	0.052	10.7	62	10.93	0.00	
Type: 4" - PVC	3	4.99	0.051	10.8	63	10.91	0.00	
Total Well Depth (TD): 29.00								
Static Water Level (WL): 21.99								
One Casing Volume(gal/L): ~~29.00~~ 4.6 gals								
Start Purge (hrs): 0750								
End Purge (hrs): 0845								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 14								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl	2-40ml. VOA vials	✓

OBSERVATIONS / NOTES:

Sample collected approximately 24' below TOC

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP - Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW06-I
Sample Location: Fire Training Area
Sampled By: P. Davis / S. Patselas
C.O.C. No.: #2
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/11/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1050								
Method: Disp. Bailer	Clear	6.20	0.084	10.9	0	8.08	0.00	

PURGE DATA: mS/cm

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/11/97								
Method: Sub. pump	Initial	5.95	0.038	10.4	0	7.22	0.00	
Monitor Reading (ppm): —	1	6.13	0.073	10.8	0	7.65	0.00	
Well Casing Diameter & Material	2	6.21	0.083	10.9	0	7.76	0.00	
Type: PVC 4"	3	6.20	0.084	10.9	0	8.08	0.00	
Total Well Depth (TD): 75.80'								
Static Water Level (WL): 23.0'								
One Casing Volume (gal/L): 34.5								
Start Purge (hrs): 0935								
End Purge (hrs): 1030								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 110								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCL	(2) 40 ml vials	✓

OBSERVATIONS / NOTES:

Place pump at 35' btoc
pump flow at 2 GPM
Collect sample at 70' btoc

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Paul M. Davis

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 7398-0201

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW 07
Sample Location: Fire Training
Sampled By: Paul Davis/Patel
C.O.C. No.: #2
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/11/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1025								
Method: disposable bailer	light orange	5.03	0.043	11.0	62	9.55	0.00	

PURGE DATA: mS/cm

	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/11/97								
Method: hand bail	Initial	4.81	0.042	10.4	32	8.25	0.00	
Monitor Reading (ppm): —	1	4.97	0.039	10.6	32	8.57	0.00	
Well Casing Diameter & Material	2	4.95	0.043	10.9	63	9.12	0.00	
Type: PVC 4"	3	5.03	0.043	11.0	62	9.55	0.00	
Total Well Depth (TD): 36.70								
Static Water Level (WL): 30.83								
One Casing Volume (gal/L): 3.8								
Start Purge (hrs): 0920								
End Purge (hrs): 1005								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 12								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC	HCl	2-40ml. VOA vials	✓

OBSERVATIONS / NOTES:

Sample collected approximately 33 feet below TOC.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 7398-0201

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW08-S
Sample Location: Fire Training
Sampled By: S. Patselas
C.O.C. No.: #1 of 5
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11/10/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1535	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: disposable bailer	clear	4.85	0.061	12.7	0	1.99	0.0	

PURGE DATA:

Date: 11/10/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: hand bail	Initial	4.12	0.090	13.1	0	1.21	0.0	
Monitor Reading (ppm): —	1	4.40	0.061	12.9	0	1.22	0.0	
Well Casing Diameter & Material	2	4.73	0.064	12.9	1	1.24	0.0	
Type: 4" PVC	3	4.85	0.061	12.7	0	1.99	0.0	
Total Well Depth (TD): 16.05'								
Static Water Level (WL): 8.76'								
One Casing Volume (gal/L): 4.76								
Start Purge (hrs): 1440								
End Purge (hrs): 1525								
Total Purge Time (min): 55								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl	2 - 40ml. vials	✓

OBSERVATIONS / NOTES:

Collected sample approximately 11' below TOC

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP. Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FT-MW-08I
Sample Location: Fire Training Area
Sampled By: Paul Davis
C.O.C. No.: #1 of 5
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Date: 11/10/97	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Time: 1650								
Method: Disp. Bailer								

PURGE DATA:

	Volume	pH	S.C. (mS/cm)	Temp. (C)	Turbidity	DO	Salinity	Other
Date: 11/10/97	Initial	5.89	0.209	11.4	0	0.92	0.00	
Method: Sub. pump	1	5.99	0.209	11.2	0	1.07	0.00	
Monitor Reading (ppm): —	2	5.98	0.207	11.2	0	0.67	0.00	
Well Casing Diameter & Material Type: PVC - 4"	3	5.98	0.203	11.1	0	0.81	0.00	
Total Well Depth (TD): 35.63'								
Static Water Level (WL): 8.85'								
One Casing Volume (gal/L): 17.5								
Start Purge (hrs): 1600								
End Purge (hrs): 1645								
Total Purge Time (min): 45								
Total Vol. Purged (gal/L): 56.25								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCL	(2) 40 ml vials	✓

OBSERVATIONS / NOTES:

pump = 1.25 GPM
place pump 15' btoc
collected sample 30' btoc

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Paul M. Davis

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Calverton
Project No.: 7398

[] Domestic Well Data
[X] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.: FD-MW07
Sample Location: Fuel
Sampled By: S. Patzelas
C.O.C. No.: #5 of 5
Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11/14/97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1705	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: disp. bailer	clear	5.15	0.047	11.7	0	4.58	0.0	

PURGE DATA:

Date: 11/14/97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: hand bail	Initial	5.09	0.045	11.3	0	5.07	0.0	
Monitor Reading (ppm): —	1	5.18	0.050	11.6	0	4.07	0.0	
Well Casing Diameter & Material	2	5.13	0.046	11.7	0	5.14	0.0	
Type: 4" PVC	3	5.15	0.047	11.7	0	4.58	0.0	
Total Well Depth (TD): 22.93								
Static Water Level (WL): 17.28								
One Casing Volume (gal/L): 3.70								
Start Purge (hrs): 1625								
End Purge (hrs): 1700								
Total Purge Time (min): 35								
Total Vol. Purged (gal/L): 15								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOC	HCl, 4°C	(2) 40ml vials	✓

OBSERVATIONS / NOTES:

Sample collected approximately 20' below TOC

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-CALVERTON
Project No.: 7398

[] Domestic Well Data
[] Monitoring Well Data
[■] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: FD-GW-05
Sample Location: Fuel Depot
Sampled By: Paul Davis
C.O.C. No.:
Type of Sample:
[■] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11-12-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1640	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: PE tubing								

PURGE DATA:

Date: 11-12-97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Peristaltic Pump	Initial							
Monitor Reading (ppm): –	1							
Well Casing Diameter & Material	2							
Type: Steel 1/2"	3							
Total Well Depth (TD): 21'				N.A.				
Static Water Level (WL): 19'								
One Casing Volume(gal/L): 0.46								
Start Purge (hrs): 1625								
End Purge (hrs): 1640								
Total Purge Time (min): 15								
Total Vol. Purged (gal/L): 2.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	(2) 40 ml vials	✓
SVOC'S	4°	(2) 1L ambers	✓

OBSERVATIONS / NOTES:

collected sample from 19'-21' bgs 2' below gw level
Clear, not turbid water - petroleum odors.

Quanterra Lab

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Paul M. Davis

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-CALVERTON
Project No.: 7398

[] Domestic Well Data
[] Monitoring Well Data
[■] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: FD-GW-06
Sample Location: Fuel Depot
Sampled By: Paul Davis
C.O.C. No.:
Type of Sample:
[■] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11-12-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1605	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: PE tubing								

PURGE DATA:

Date: 11-12-97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Peristaltic Pump	Initial							
Monitor Reading (ppm): —	1							
Well Casing Diameter & Material	2							
Type: Steel 1/2"	3							
Total Well Depth (TD): 21.5'				N.A.				
Static Water Level (WL): 19.5'								
One Casing Volume(gal/L): 0.46								
Start Purge (hrs): 1549								
End Purge (hrs): 1605								
Total Purge Time (min): 16								
Total Vol. Purged (gal/L): 2.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	(2) 40 ml Vials	✓
SVOC'S	4°	(2) 1 L. Ambers	✓

OBSERVATIONS / NOTES:

Collected Sample from 19.5' - 21.5' bgs — 2' below GW level
Clear - not turbid water
slight petroleum odors
Quanterra Lab.

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Paul M. D—

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP-CALVERTON
Project No.: 7398

[] Domestic Well Data
[] Monitoring Well Data
[■] Other Well Type: Temporary Well
[] QA Sample Type:

Sample ID No.: FD-GW07
Sample Location: Fuel Depot
Sampled By: Paul Davis
C.O.C. No.:
Type of Sample:
[■] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 11-12-97	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Time: 1455	Visual	Standard	mS/cm	Degrees C	NTU	mg/l	%	NA
Method: PE tubing								

PURGE DATA:

Date: 11-12-97	Volume	pH	S.C.	Temp. (C)	Turbidity	DO	Salinity	Other
Method: Peristaltic Pump	Initial							
Monitor Reading (ppm): –	1							
Well Casing Diameter & Material	2							
Type: Steel 1/2"	3							
Total Well Depth (TD): 21'				N.A.				
Static Water Level (WL): 19'								
One Casing Volume(gal/L): 0.46								
Start Purge (hrs): 1443								
End Purge (hrs): 1455								
Total Purge Time (min): 12								
Total Vol. Purged (gal/L): 2.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC'S	HCL	(2) 40 ml vials	✓
SVOC'S	4°	(2) 1 L ambers	✓

OBSERVATIONS / NOTES:

petroleum odors
collected sample from 19' to 21' bgs.
Slightly turbid - light tan water
Quanterra Lab

2' below GW level

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Paul M. D[illegible]

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIRP-Colverton

Project No.: 7398

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sample ID No.: NP-SD10-1218

Sample Location: NORTH POND

Sampled By: TERESA SAWYER / PEYTON DALLAS

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 12" - 18"

Sample Date and Time: 6/10/97 1220

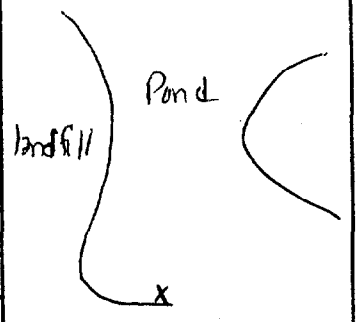
Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data		
Sample	Time	Color/Description

Grab Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BRN/TAN	WET SILTY SAND

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8oz glass	✓
PEST/PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:

MS/MSD | Duplicate ID No:

Signature(s): Teresa Sawyer

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIEP-Colverton

Sample ID No.: NP-SD10-1824

Project No.: 7398

Sample Location: NORTH POND

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sampled By: TERESA SAWYER/PEYTON DALLB

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 18" - 24"

Sample Date and Time: 6/10/97 1245

Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data

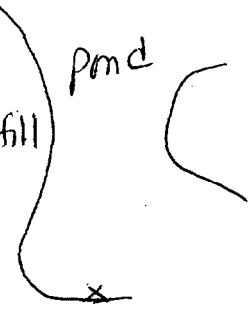
Sample	Time	Color/Description

Grab Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8oz glass	✓
PEST/PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:

MS/MSD

Duplicate ID No: NP-DUP05

Signature(s): Teresa Sawyer

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton

Project No.: 7398

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sample ID No.: NP-SD11-1218

Sample Location: NORTH POND

Sampled By: TERESA SAWYER/PEYTON DALLS

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 12" - 18"

Sample Date and Time: 6/10/97 1140

Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data

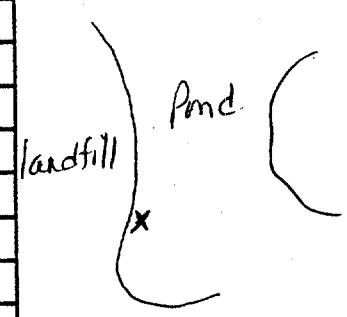
Sample	Time	Color/Description

Grab Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BRN / TAN	WET SILTY SAND

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8oz glass	✓
PEST / PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:

MS/MSD	Duplicate ID No:

Signature(s): Teresa Sawyer

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIRP-Calverton

Project No.: 7398

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sample ID No.: NP-SD11-1824

Sample Location: NORTH POND

Sampled By: TERESA SAWYER / PEYTON DALLB

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 18" - 24"

Sample Date and Time: 6/10/97 1200

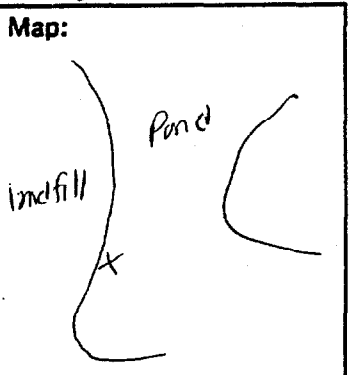
Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data		
Sample	Time	Color/Description

Grab Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BRN / TAN	WET SILTY SAND

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8 oz glass	✓
PEST / PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:

MS/MSD | Duplicate ID No:

Signature(s): Teresa Sawyer

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIRP-Colverton

Project No.: 7398

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sample ID No.: NP-SD12-12-18

Sample Location: NORTH POND

Sampled By: TERESA SAWYER/PEYTON DAWB

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 12" - 18"

Sample Date and Time: 6/10/97 1100

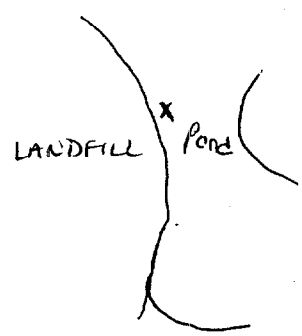
Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data		
Sample	Time	Color/Description

Grab Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BRN/TAN	WET SILTY SAND

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8oz glass	✓
PEST/PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:	
MS/MSD	Duplicate ID No:

Signature(s): Teresa Sawyer

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIRP-Colverton

Project No.: 7398

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sample ID No.: NP-SD12-1824

Sample Location: NORTH POND

Sampled By: TERESA SAUNDER/PEYTON DALLB

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 18"-24"

Sample Date and Time: 6/10/97 1115

Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data

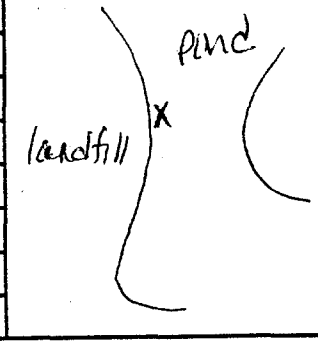
Sample	Time	Color/Description

Grab Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
TAN/BROWN	WET SILTY SAND

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8oz glass	✓
PEST/PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:

MS/MSD

Duplicate ID No:

Signature(s): Teresa Saunder

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIRP-Colverton

Project No.: 7398

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sample ID No.: NP-SD13-1824

Sample Location: NORTH POND

Sampled By: TERESA SAUNDER/PEYTON DAVIS

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 18" - 24"

Sample Date and Time: 6/10/97 1030

Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data

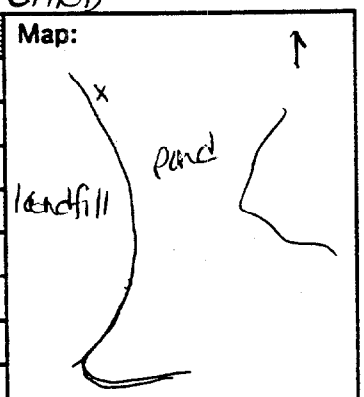
Sample	Time	Color/Description

Grab Sample Data

Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN / TAN	WET SILTY SAND

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8oz glass	✓
PEST/PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:

MS/MSD

Duplicate ID No:

Signature(s): Teresa Saunder

Halliburton NUS CORPORATION

SINGLE SAMPLE LOG SHEET

Project Site Name: NWIRP-Colverton

Project No.: 7398

- ☐ Surface Soil
- ☐ Subsurface Soil
- ☒ Sediment
- ☐ Other _____
- ☐ QA Sample Type: _____

Sample ID No.: NP-SD13-1218

Sample Location: NORTH POND

Sampled By: TERESA SAWYER / PEYTON DAVIS

C.O.C. No.: I

Sample Method: DIRECT PUSH

Depth Sampled: 12"-18"

Sample Date and Time: 6/10/97 1000

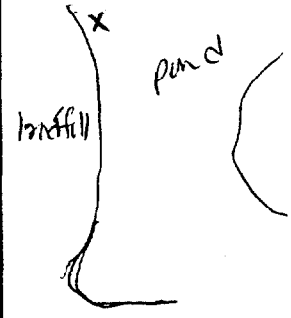
Type of Sample
- ☒ Grab
- ☐ Composite
- ☐ Grab-Composite
- ☐ High Concentration
- ☐ Low Concentration

Composite Sample Data		
Sample	Time	Color/Description

Grab Sample Data	
Color	Description: (Sand, Clay, Dry, Moist, Wet, etc.)
BROWN TAN	SILTY WET SAND

Analysis	Container Requirements	Collected (✓)
SVOC'S	1 8oz glass	✓
PEST/PCB'S		
METALS		

Map:



Observations/Notes:

Circle if Applicable:

MS/MSD | Duplicate ID No:

Signature(s): Teresa Sawyer

APPENDIX D

CHAIN OF CUSTODY FORMS

COC #1

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWI RP CALUMET

SAMPLERS (SIGNATURE): Roland Marshall

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA						REMARKS
FT	3/28	0730		✓	FTTB01	2	2						TRIP BLANK
FT	3/28	0000		✓	FTGWDU01	2	2						DUPLICATE
FT	3/28	0823		✓	FTGW0119	2	2						
FT	3/28	0851		✓	FTGW0134	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Roland Marshall	3/28/97				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB Pt. cup	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

COC #4

PROJECT NO.: 7398

SITE NAME: NWIRP CALVERTON

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	2 40ml VOA Quick Turn VOC						REMARKS
	4/2	1400		✓	JFTB03	2	2						TRIP BLANK
	"	1402		✓	JFGW0321	2	2						VOC + FREON
	"	1427		✓	JFGW0336	2	2						VOC + FREON
	"	000		✓	JFGWDU02	2	2						DUPLICATE w/FREON
	"	1512		✓	FDGW0117	2	2						JUST VOC
	"	1531		✓	FDGW0136	2	2						" "
	4/3	1017		✓	FCGW0109	2	2						" "
	"	1034		✓	FCGW0124	2	2						" "
	"	1114		✓	FCGW0144	2	2						" "

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	4/3/97 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICKUP	

Order No. 70440

COC # 7

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP CALVERTON

SAMPLERS (SIGNATURE): Roland Marshall

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml VOA w/ HCL						REMARKS
	4/5	1347		✓	FCGW0480	2	2						—
	"	1453		✓	FCGW04100	2	2						—
	"	0900		✓	FCTB05	2	2						TRIP BLANK
	4/6	1017		✓	JFGW0625	2	2						VOC & FREON
	"	1043		✓	JFGW0640	2	2						VOC & FREON
	"	1128		✓	FTGW0219	2	2						—
	"	1145		✓	FTGW0234	2	2						—
	"	1404		✓	ETGW0411	2	2						—
	"	1425		✓	ETGW0426	2	2						—

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Roland Marshall	4/7/97 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB Pick up	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

COC #4

PROJECT NO.: 7398

SITE NAME: NWIRP CALVERTON

SAMPLERS (SIGNATURE): Roland Marshall

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml VOA VIAL VOC						REMARKS
	4/8	0900		✓	ETTB07	2	2						TRIP BLANK
	"	1008		✓	ETGW0546	2	2						
	"	1029		✓	ETGW0526	2	2						
	"	1038		✓	ETGW0511	2	2						
	"	1142		✓	ETGW0646	2	2						
	"	1158		✓	ETGW0626	2	2						
	"	1211		✓	ETGW0611	2	2						
	"	1444		✓	FDGW0219	2	2						
	"	1512		✓	FDGW0234	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Roland Marshall	4/9/97 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICKUP	

Order No. 70440

COC #12

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: ~~73~~ NWIRP CALVERTON

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	LIONS VOA VIAL VOC						REMARKS
	4/17	1400		✓	FT 1 B10	2	2						TRIP BLANK
	~~II~~	~~[illegible]~~		✓	~~DUO4~~ (4M)	~~2~~	~~2~~ (4M)						~~DUPLICATE~~ (4M)
	"	1511		✓	FTGW0319	2	2						
	"	1526		✓	FTGW0334	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	4/17/17 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICKUP	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

2 of 2 COC # 13

PROJECT NO.: 7398

SITE NAME: NWIRP CALVERTON

SAMPLERS (SIGNATURE): [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml VOA VOC						REMARKS
	4/20	1032		✓	NPGW0145	2	2						
	"	1118		✓	NPGW0160	2	2						
	"	1403		✓	FCGW0715	2	2						
	"	1428		✓	FCGW0730	2	2						
	"	1443		✓	FCGW0750	2	2						
	"	1546		✓	ETGW0715	2	2						
	"	1604		✓	ETGW0730	2	2						
	"	1624		✓	ETGW0750	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	4/21/97 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICKUP	

Order No. 7044

COC #14

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP CALVERTON

SAMPLERS (SIGNATURE): Roland Marshall

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA VOA						REMARKS
	4/21	0900		✓	NPTB11	2	2						TRIP BLANK
	4/21	00		✓	NPDU05	2	2						DUPLICATE
	"	1027		✓	NPGW0245	2	2						
	"	1105		✓	NPGW0260	2	2						
	"	1409		✓	NPGW0345	2	2						
	"	1436		✓	NPGW0360	2	2						
LM	~~4/22~~			✓	~~FCGW04120~~	~~2~~	~~2~~	LM					NO SAMPLE
	~~"~~			✓	~~FCGW04140~~	~~2~~	~~2~~						NO SAMPLE LM

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Roland Marshall	4/23/97 0900				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICKUP.	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

COC # 16

PROJECT NO.: 7398	SITE NAME: NWIRP - CALVERTON
SAMPLERS (SIGNATURE): Teresa Hanover	

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ML VOA VOCS						REMARKS
	5/8	0900		X	NB-TB13	2	2						TRIP BLANK
	5/8	1555		X	FT-GW04-19	2	2						
	5/8	1610		X	FT-GW04-34	2	2						
	5/9	1010		X	FT-GW12-11	2	2						
	5/9	1030		X	FT-GW12-26	2	2						
	5/9	1120		X	FT-GW13-11	2	2						
	5/9	1140		X	FT-GW13-26	2	2						
	5/9	1210		X	FT-GW14-11	2	2						
	5/9	1230		X	FT-GW14-26	2	2						
	5/9	1000		X	FT DUP06	2	2						DUPLICATE

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Teresa Hanover	5/9/97 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Lab Pick-up	

Order No. 704 [illegible]3)

COC # 1

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP Colville

SAMPLERS (SIGNATURE): Teresa Alvarez

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VOAL VOCS						REMARKS
	5/12	0810		X	FD-GW03-19	2	2						VOA'S
	5/12	0855		X	FD-GW03-34	2	2						↓
	5/12	0940		X	JF-GW14A-20	2	2						
	5/12	1000		X	JF-GW14A-35	2	2						
	5/12	1025		X	JF-GW14A-55	2	2						
	5/12	1115		X	A4-MW05	2	2						VOA'S + Freon

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Teresa Alvarez	5/12/97 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Lab Pick-up.	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

COC # 21
PAGE 1 OF 2

PROJECT NO.: 7398	SITE NAME: NWIRP- Colverton
SAMPLERS (SIGNATURE): Teresa Acuoza	

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ML VIAL VOC'S						REMARKS
	5/21	1300		X	FL-TB17	2	2						TRIP BLANK
	5/21	1400		X	FL-GW01-19	2	2						
	5/21	1430		X	FL-GW01-34	2	2						
	5/21	1000		X	FL-DUP -09	2	2						DUPLICATE
	5/21	1515		X	FL-GW02-19	2	2						
	5/21	1545		X	FL-GW02-34	2	2						
	5/21	1930		X	GC-GW01-19	2	2						
	5/21	1945		X	GC-GW01-34	2	2						
	5/21	2000		X	GC-GW01-54	2	2						
	5/21	2030		X	GC-GW02-19	2	2						
	5/21	2045		X	GC-GW02-34	2	2						
	5/21	2115		X	GC-GW02-54	2	2						
	5/21	2220		X	GC-GW03-19	2	2						
	5/21	2245		X	GC-GW03-34	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Teresa Acuoza	5/22/97 1530				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICK UP	

Order No. 70440 (0583)

COC # 21
PAGE 2 OF 2

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP-Colverton

SAMPLERS (SIGNATURE): Teresa Acuoyi

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VIAL VOCS						REMARKS
	5/21	2310		X	GC-GW03-54	2	2						
	5/22	0000		X	JF-DUP 10	2	2						Duplicate
	5/22	0920		X	JF-GW17-19	2	2						VOCs + FREON
	5/22	0940		X	JF-GW17-34	2	2						↓
	5/22	1010		X	JF-GW17-54	2	2						↓
	~~5/22~~	~~0000~~		~~X~~	~~JF-DUP-11~~	~~2~~	~~2~~						~~Duplicate~~ STET (TS)
	5/22	1210		X	FL-GW04-19	2	2						
	5/22	1230		X	FL-GW04-34	2	2						
	5/22	1315		X	FL-GW05-19	2	2						
	5/22	1335		X	FL-GW05-34	2	2						
	5/22	1400		X	FL-GW06-19	2	2						
	5/22	1430		X	FL-GW06-34	2	2						
	~~5/22~~	~~0000~~		~~X~~	~~FL-DUP-12~~	~~2~~	~~2~~						~~Duplicate~~ STET (TS)
	5/22	0000		X	FL-DUP-13	2	2						Duplicate

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Teresa Acuoyi	5/22/97 1530				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICK UP.	

Order No. 70440 (0693)

COC #24

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP - Calverton

SAMPLERS (SIGNATURE): Teresa Dawson

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VIAL VOCs						REMARKS
	6/5	1300		X	FT-TB22	2	2						TRIP BLANK
	6/5	1330		X	FT-GW03-18	2	2						
	6/5	1430		X	FT-GW03-68	2	2						
	6/6	1140		X	FC-GW04A-30	2	2						
	6/6	1200		X	FC-GW04A-40	2	2						
	6/6	1245		X	FC-GW04A-60	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Teresa Dawson	6/6/97 1330				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICK-UP	

COC # 25

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP-Calverton

SAMPLERS (SIGNATURE): Teresa Acuoyo

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VIAL VOC'S						REMARKS
	6/6	1400		X	SA-TB23	2	2						TRIP BLANK
	6/6	1600		X	FC-GW04A-80	2	2						
	6/8	1510		X	SA-GW101-17	2	2						
	6/8	1530		X	SA-GW101-32	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Teresa Acuoyo	6/9/97 1400				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Lab prep-14)	

COC #26

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP- Colverton

SAMPLERS (SIGNATURE): Teresa Dawson

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VIAL VOC's						REMARKS
	6/17	0900		x	FT-TB24	2	2						TRIP BLANK
	6/18	0830		x	FT-GW03-78	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Teresa Dawson	6/18/07 1440				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: LAB PICK-UP	

COC #31

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP Calverton

SAMPLERS (SIGNATURE): Teresa Demoyer

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 mL VOCs						REMARKS
	8/12	0720		X	FT-TB-29	2	2						TRIP BLANK
	8/13	1930		X	FT-GW08-45	2	2						
	8/13	1030		X	FT-GW08-65	2	2						
	8/13	1000		X	FT-DUP-18	2	2						Duplicate
	8/13	1200		X	FT-GW08-85	2	2						
	8/14	1940		X	SA-GW106-12	2	2						
	8/14	1015		X	SA-GW106-27	2	2						
	8/14	1200		X	SA-GW106-47	2	2						
	8/14	1300		X	SA-GW106-67	2	2						
	8/14	0000		X	SA-DUP-19	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Teresa Demoyer	8/14/97 1400	Lab			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Lab Pick-up	

Order No. 70440 (0693)

COC #1W

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP- Colverton

SAMPLERS (SIGNATURE): Teresa Semonzi

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VIAL VOC's	1 liter Amber SVOC's	1 liter Amber PESTICIDES/PCBs	1 liter Plastic METALS			REMARKS
	6/23	0730		X	NP- TB01W	2	2						TRIP BLANK
	6/23	1345		X	NP- MW01- 062397 MS/MSD	21	6	6	6	3			MS/MSD
	6/23	1530		X	NP- MW04- 062397	9	2	2	2	1			
	6/23	1710		X	NP- MW03- 062397	7	2	2	2	1			
	6/23	0000		X	NP- DUP01- W	7	2	2	2	1			Duplicate

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Teresa Semonzi	6/23/97 1800	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
'IISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED FED EX AIRBILL # 4293610123	

COC # 02W

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP- Olverton

SAMPLERS (SIGNATURE): Teresa Sawyer

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VIAL VOC's	1 Liter Amber SVOC's	1 Liter Amber Pest/PCB's	1 Liter Plastic METALS	1 Liter Plastic CADMIUM	REMARKS
	6/24	0730		X	NP- TB02-W	2	2					TRIPBLANK
	6/24	0905		X	NP-MW02I-062497	7	2	2	2	1		
	6/24	1015		X	NP-MW02-062497	7	2	2	2	1		
	6/24	1130		X	NP- MW06-062497	7	2	2	2	1		
	6/24	1230		X	NP- MW05-062497	7	2	2	2	1		
	6/24	1515		X	ECM-MW01-062497	1	2				1	
	6/24	1610		X	ECM-MW02-062497	1	2				1	

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Teresa Sawyer	6/24/97 1600	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED FED EX AIRBILL # 4293610112	

CHAIN OF CUSTODY RECORD

COC # 03W

PROJECT NO.: 7398

SITE NAME: NWIRP- Calverton

SAMPLERS (SIGNATURE): Teresa Scuorzo [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 mL VIAL VOC'S	1 liter Amber SVOC'S					REMARKS
	6/25	0700		X	FT-TB-03W	2	2						TRIP BLANK
	6/25	0950		X	FT-MW06-I-062597	2	2						
	6/25	1020		X	FT-MW06-S-062597	2	2						
	6/25	0600		X	FT-DUP02-W	2	2						
	6/25	1115		X	FT-MW05-I-062597	2	2						
	6/25	1130		X	FT-MW05-S-062597	2	2						
	6/25	1220		X	FT-MW08-S-062597	2	2						
	6/25	1240		X	FT-MW08-I-062597	2	2						
	6/25	1445		X	PR-GW01-02	2	2						
	6/25	1500		X	PR-GW02-02	4	2	2					
	6/25	1430		X	FD-MW07-062597	2	2						
	6/25	1520		X	PR-GW03-03	2	2						
	6/25	1800		X	FT-MW02S-062597	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	6/26/97 0900				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Shipped FEDEX AIRBILL # 4293610101	

COC # 05W

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP- Colverton

SAMPLERS (SIGNATURE): Teresa Sawyer

STATION NO.	DATE 97	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ML VIAL VOCs	Amber Liter VOCs					REMARKS
	7/10	0900		X	GC-TB04W	2	2						TRIP BLANK
	7/10	1230		X	GCIW-GW01	2	2						
	7/11	1350		X	VS-GW01-62	4	2	2					

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Teresa Sawyer	7/11/97 1800	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED FED EX AIRBILL # 4293610145	

COC II

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP Colverton

SAMPLERS (SIGNATURE): Teresa Acuoyi

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	8 oz glass						REMARKS
	6/10	1000		X	NP-SD13-1218	1	1						SVOCS/PEST/PCBS/METALS
	6/10	1030		X	NP-SD13-1824	1	1						
	6/10	1100		X	NP-SD12-1218	1	1						
	6/10	1115		X	NP-SD12-1824	1	1						
	6/10	1140		X	NP-SD11-1218	1	1						
	6/10	1200		X	NP-SD11-1824	1	1						
	6/10	1220		X	NP-SD10-1218	1	1						
	6/10	1245		X	NP-SD10-1824	1	1						
	6/10	0000		X	NP-DUP05	1	1						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Teresa Acuoyi	6/10/98 1500	FEDEPAC EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED FED EX AIRBILL # 4293610182	

[illegible] - [illegible]

Bk 034

COC N

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398	SITE NAME: NWIRP Calverton – Fuel Depot
SAMPLERS (SIGNATURE): [signature]	

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC - 4oz amber wide mouth	SVOC - 4oz amber wide mouth	VOA - 40ml w/HCl				REMARKS
0	8/18/97	1615		✓	T2-SB01-1517	2	1	1	–				VOA Toluene 3.7 [illegible] / BNA [illegible]
1	8/18/97	1625		✓	T2-SB02-1517	2	1	1	–				All ND / TICs only (B)
2	8/18/97	1635		✓	T2-SB03-1517	2	1	1	–				TICs only (B)
3	8/18/97	1650		✓	T2-SB04-1517	2	1	1	–				[illegible]
4	8/18/97	1700		✓	T2-SB05-1517	2	1	1	–				TICs only (B)
5	8/18/97	1715		✓	T2-TB32	2	–	–	2				Field poured Trip Blank (?)
													Acetone 26 [illegible]
					method blank								ND / TICs only

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/19/97 0700				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE): [signature]	DATE / TIME: 8/20/97 1000	REMARKS: Fed Ex Air Bill # 5081400656	

Order No. 70440 (0693)

[illegible]

COC N

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP Calverton — Fuel Depot

SAMPLERS (SIGNATURE):

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC - 4oz amber w/teflon septa	SVOC - 4oz amber w/teflon septa	VOA - 40ml w/HCl				REMARKS
0	8/18/97	16/5		✓	T2-SB01-1517	2	1	1	—				
1	8/18/97	1625		✓	T2-SB02-1517	2	1	1	—				
2	8/18/97	1635		✓	T2-SB03-1517	2	1	1	—				
3	8/18/97	1650		✓	T2-SB04-1517	2	1	1	—				
4	8/18/97	1700		✓	T2-SB05-1517	2	1	1	—				
5	8/18/97	1715		✓	T2-TB32	2	—	—	2				Field poured Trip Blank
					8/19/97 4 vials/soil								

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
	8/19/97 0700				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Fed Ex Air Bill # 5081400656	

Order No. 7P (693)

Bow & Pow. Environmental, Inc.

Brown Root Environmental / C.F. Brac — Project Manager: Dave Brayner BR 335

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP Calverton - Fuel Depot

SAMPLERS (SIGNATURE): Starros Patselas

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA - 40ml vial w/ HCl	VOC - 4oz amber wide mouth	SVOC - 4oz amber wide mouth				REMARKS
0	8/19/97	1305	0700	✓	TP3-TB33	2	2	—	—				all ND Field Poured Trip Blank
1	8/19/97	1305	8/20/97	✓	TP3-SB01-1517	2	—	1	1				VOA all ND; SVOA TICs only (B)
2	8/19/97	1325	8/20/97	✓	TP3-SB02-1517	2	—	1	1				TICs only (B)
3	8/19/97	1325		✓	TP3-SB03-1517	2	—	1	1				hits + TICs
4	8/19/97	1330		✓	TP3-SB04-1517	2	—	1	1				TICs only (B)
5	8/19/97	1340		✓	TP3-SB05-1517	2	—	1	1				hits + TICs
					blank								all ND TIC only

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[signature]	8/20/97 8/19/97 0730				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
		[signature]			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Fed Ex Air Bill # 5081400660	

No. 70440 (0693)

Soils from Test Pit 3 Fuel Depot

BR333

COC M

CHAIN OF CUSTODY RECORD

PROJECT NO.: 7398

SITE NAME: NWIRP- Colverton

SAMPLERS (SIGNATURE): Teresa Sawyer

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	4 oz glass DRO	4 oz glass GRO	2 oz glass VOC's	4 oz glass SVOCs	40 ml VIAL VOCs	~~4 oz glass TCLP VOC's~~ (TR)	~~4 oz glass TCLP SVOC's~~ (TR)	REMARKS
	8/14	1400		X	FD - TB - 30	2					2			TRIP BLANK all ND
	↓	1425		X	T1 - SB01 - 1517	2			1	1				VOA all ND; CND Hits
		1435		X	T1 - SB02 - 1517	2			1	1				↓
		1445		X	T1 - SB03 - 1517	2			1	1				
	↓	0000		X	T1 - DUP - 7	2			1	1				
	8/15	1300		X	VS SS01 - 0002	2			1	1				2ex DF due to matrix nohits; TKs neg
	↓	1310		X	VS - SS01 - 0204	2			1	1				TKs neg
	↓	1320		X	VS - SS05 - 0002	2	1	1						GRO NO, DRO - 660 mg/kg
					Blanks									all ND TKs neg

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
Teresa Sawyer	8/15/97 1800	FEDERAL EXPRESS			
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: SHIPPED FED EX AIRBILL # 4293610020	
		William A Hoyle	8-16-97 10:30		

Quanterra Environmental Services

Order No.)693)

Project Manager Dave Drayack

#1 of 5

CHAIN OF CUSTODY RECORD

Brown & Root Env.

PROJECT NO.:	SITE NAME:
7398-0201	NWIRP Calverton, NY

SAMPLERS (SIGNATURE): [signature] [signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ml VOA w/ HCl — VOC						REMARKS
0	11/10/97	1445		✓	TB-111097	2	2						Lab Prepared
1	11/11/97	1535		✓	FT-MW08-S	2	2						
2	11/11/97	1650		✓	FT-MW08-I	2	2						
3	11/11/97	1720		✓	FT-MW05-S	2	2						

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	11/1/97 1800				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Fed Ex Truck # 5081389471	

CHAIN OF CUSTODY RECORD

PROJECT NO.: [illegible]

SITE NAME: [illegible], NY

SAMPLERS (SIGNATURE): Paul M. [illegible]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	REMARKS
[illegible]	[illegible]	[illegible]		✓	TB-[illegible]	[illegible]	2						[illegible] Trip Blank
FT	[illegible]	[illegible]		✓	FT-[illegible]	2	2						
FT	[illegible]	[illegible]		✓	FT-[illegible]	2	2						
FT	[illegible]	[illegible]		✓	FT-[illegible]-I	2	2						
FT	[illegible]	[illegible]		✓	FT-[illegible]-I	2	2						
NP	[illegible]	[illegible]		✓	NP-[illegible]	7	2	2	2	1			
NP	[illegible]	[illegible]		✓	NP-[illegible]-I	7	2	2	2	1			
[illegible]	[illegible]	[illegible]		✓	[illegible]	2	2						[illegible]

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
Paul M. [illegible]	11/11/97 1000				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Fed Ex # [illegible] 289 482	

Order No. 70440 (0693)

CHAIN OF CUSTODY RECORD

Brown + Root Environmental [illegible]

PROJECT NO.: [illegible]	SITE NAME: [illegible]
SAMPLERS (SIGNATURE): [signature]	[signature]

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]			REMARKS
TA/QC	11/14/[illegible]	0730		✓	TB-111-11	2	2	–	–	–	-		Lab Provided Trip Blank
NP	11/14/[illegible]	0745		✓	NP-MW06	7	2	2	2	1			
NP	11/14/[illegible]	1155		✓	NP-[illegible]	2	2	2	2	1			
FD	11/14/[illegible]	1455		✓	FD-GW07	4	2	2	–	–			
FD	11/14/[illegible]	1405		✓	FD-GW06	4	2	2	–	–			
FD	11/14/[illegible]	1440		✓	FD GW05	4	2	2	–	–			

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
[signature]	11/14/[illegible] 0730				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY(SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS: Fed Ex Track # 5081400682	

#4 of 5

CHAIN OF CUSTODY RECORD

PROJECT NO.: [illegible]	SITE NAME: [illegible]
SAMPLERS (SIGNATURE): [illegible]	

STATION NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]			REMARKS
NP	11/13/[illegible]	[illegible]		✓	NP-MW03	21	6	6	6	3			120 MS/MSD
NP	11/13/[illegible]	1450		✓	NP-MW04	7	2	2	2	1			
NP	11/13/[illegible]	1635		✓	NP-MW01	7	2	2	2	1			
[illegible]	[illegible]	[illegible]		✓	TB-[illegible]	2	2	—	—	—			[illegible] Trip Blank
[illegible]	[illegible]	[illegible]		✓	DUP-[illegible]2	7	2	2	2	1			[illegible]

RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
[illegible]	11/13/[illegible] 1750				
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):	RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED BY (SIGNATURE):
RELINQUISHED BY (SIGNATURE):	DATE / TIME:	RECEIVED FOR LABORATORY BY (SIGNATURE):	DATE / TIME:	REMARKS:	

Ord[illegible]

[redacted]

Chain of Custody Record

Quanterra

#5 of 5

QUA-4124 0797

Client: Brown & Root Environmental	Project Manager: Dave Brayack	Date: 11/14/97	Chain of Custody Number: 03001
Address: 600 Andersen Drive, Bldg. 7	Telephone Number (Area Code)/Fax Number: (412) 921 8375 / (412) 921 4040	Lab Number:	Page ___ of ___
City: Pittsburgh; State: PA; Zip Code:	Site Contact: S. Patselas; Lab Contact: Veronica Bertot		
Project Name: NWIRP	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	HNO3	VOC -40ml vial	Cadmium only	Special Instructions/ Conditions of Receipt
TB-111497	11/14/97	0800	X							X				2		Lab Provided Trip Blu
ECM-MW01	11/14/97	0940	X										X		1	
ECM-MW02	11/14/97	1100	X										X		1	
FC-MW07-S	11/14/97	1425	X							X				2		
FC-MW08-S	11/14/97	1605	X							X				2		
FD-MW07	11/14/97	1705	X							X				2		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ___

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	11/14/97	1730	1. Received By:		
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments

APPENDIX E

EPA SOP FOR LOW FLOW SAMPLING

LOW FLOW SAMPLING PROCEDURE

SITE 1 - NORTHEAST POND DISPOSAL AREA
NWIRP CALVERTON NEW YORK, CTO 0270

CF Braun, under a contract with the United State Department of Navy, is conducting a Phase 2 RFI at the NWIRP Calverton. As part of this work, the first groundwater sample event is scheduled to occur in June 1997. Planned groundwater sample techniques consist of using either a bailer (for VOCs) or a submersible pump with low flow sample techniques. Previous groundwater samples at the facility have been collected via a bailer. The use of the low flow sampling technique is presented in the Phase 2 RFI Work Plan; however, specific equipment and procedural details were not provided. The purpose of this document is to provide these details.

Previous groundwater testing at this facility has determined that VOCs are the primary groundwater contaminants of concern at most of the sites. However, at one site, Site 1 - Northeast Pond Disposal Area, the primary potential groundwater contaminants of concern are pesticides, PCBs, and metals. In addition, VOC contaminants were not detected in the groundwater at this site. Based on the observed groundwater sample turbidity at this site during previous testing, and the typical partitioning of these types of contaminates onto soil particles, it is suspected that these sample results may have been biased high.

The objective of the sampling event at Site 1 is to determine if these chemicals are capable of migrating with the groundwater. To address this objective, a low flow sample technique will be used to minimize the possibility of false positive readings.

To conduct the low flow sampling event, CF Braun is proposing to use the USEPA Region I procedure dated July 30, 1995 (attached). Note that sample procedures for other sites and wells are presented in the RFI Work Plan.

Site-specific details presented are summarized as follows.

Equipment

Pump:	Adjustable rate - submersible. Pump to be decontaminated between wells.
Tubing:	Teflon.

Procedure

Flowrate:	Maximum - 1 liter per minute, limit drawdown to 0.3 feet.
Time Limit:	4 hours. Sample wells at this time.
Indicator Parameters:	Check every 15 minutes. Use a flow through cell.

U.S. ENVIRONMENTAL PROTECTION AGENCY
[redacted]

[redacted] FOR THE COLLECTION OF GROUND WATER SAMPLES FROM MONITORING WELLS

I. SCOPE & APPLICATION

This standard operating procedure (SOP) provides a general framework for collecting ground water samples that are indicative of mobile organic and inorganic loads at ambient flow conditions (both the dissolved fraction and the fraction associated with mobile particulates). The SOP emphasizes the need to minimize stress by low water-level drawdowns, and low pumping rates (usually less than 1 liter/min) in order to collect samples with minimal alterations to water chemistry. This SOP is aimed primarily at sampling monitoring wells that can accept a submersible pump and have a screen, or open interval length of 10 feet or less (this is the most common situation). However, this procedure is flexible and can be used in a variety of well construction and ground-water yield situations. Samples thus obtained are suitable for analyses of ground water contaminants (volatile and semi-volatile organic analytes, pesticides, PCBs, metals and other inorganics), or other naturally occurring analytes.

This procedure does not address the collection of samples from wells containing light or dense non-aqueous phase liquids (LNAPLs and DNAPLs). For this the reader may wish to check: Cohen, R.M. and J.W. Mercer, 1993, DNAPL Site Evaluation; C.K. Smoley (CRC Press), Boca Raton, Florida and U.S. Environmental Protection Agency, 1992, RCRA Ground-Water Monitoring: Draft Technical Guidance; Washington, DC (EPA/530-R-93-001).

The screen, or open interval of the monitoring well should be optimally located (both laterally and vertically) to intercept existing contaminant plume(s) or along flowpaths of potential contaminant releases. It is presumed that the analytes of interest move (or potentially move) primarily through the more permeable zones within the screen, or open interval.

Use of trademark names does not imply endorsement by U.S.EPA but is intended only to assist in identification of a specific type of device.

Proper well construction and development cannot be overemphasized, since the use of installation techniques that are appropriate to the hydrogeologic setting often prevents "problem well" situations from occurring. It is also recommended that as part of development or redevelopment the well should be tested to determine the appropriate pumping rate to obtain stabilization of field indicator parameters with minimal drawdown in shortest amount of time. With this information field crews can then conduct purging and sampling in a more expeditious manner.

The mid-point of the saturated screen length (which should not exceed 10 feet) is used by convention as the location of the pump intake. However, significant chemical or permeability contrast(s) within the screen may require additional field work to determine the optimum vertical location(s) for the intake, and appropriate pumping rate(s) for purging and sampling more localized target zone(s). Primary flow zones (high(er) permealability and/or high(er) chemical concentrations) should be identified in wells with screen lengths longer than 10 feet, or in wells with open boreholes in bedrock. Targeting these zones for water sampling will help insure that the low stress procedure will not underestimate contaminant concentrations. The Sampling and Analysis Plan must provide clear instructions on how the pump intake depth(s) will be selected, and reason(s) for the depth(s) selected.

Stabilization of indicator field parameters is used to indicate that conditions are suitable for sampling to begin. Achievement of turbidity levels of less than 5 NTU and stable drawdowns of less than 0.3 feet, while desirable, are not mandatory. Sample collection may still take place provided the remaining criteria in this procedure are met. If after 4 hours of purging indicator field parameters have not stabilized, one of 3 optional courses of action may be taken: a) continue purging until stabilization is achieved, b) discontinue purging, do not collect any samples, and record in log book that stabilization could not be achieved (documentation must describe attempts to achieve stabilization) c) discontinue purging, collect samples and provide full explanation of attempts to achieve stabilization (note: there is a risk that the analytical data obtained, especially metals and strongly hydrophobic organic analytes, may not meet the sampling objectives).

Changes to this SOP should be proposed and discussed when the site Sampling and Analysis Plan is submitted for approval. Subsequent requests for modifications of an approved plan must include adequate technical justification for proposed changes. All changes and modifications must be approved before implementation in field.

II. EQUIPMENT

A. Extraction device

Adjustable rate, submersible pumps are preferred (for example, centrifugal or bladder pump constructed of stainless steel or Teflon).

Adjustable rate, peristaltic pumps (suction) may be used with caution. Note that EPA guidance states: "Suction pumps are not recommended because they may cause degassing, pH modification, and loss of volatile compounds" (EPA/540/P-87/001, 1987, page 8.5-11).

The use of inertial pumps is discouraged. These devices frequently cause greater disturbance during purging and sampling and are less easily controlled than the pumps listed above. This can lead to sampling results that are adversely affected by purging and sampling operations, and a higher degree of data variability.

B. Tubing

Teflon or Teflon lined polyethylene tubing are preferred when sampling is to include VOCs, SVOCs, pesticides, PCBs and inorganics.

PVC, polypropylene or polyethylene tubing may be used when collecting samples for inorganics analyses. However, these materials should be used with caution when sampling for organics. If these materials are used, the equipment blank (which includes the tubing) data must show that these materials do not add contaminants to the sample.

Stainless steel tubing may be used when sampling for VOCs, SVOCs, pesticides, and PCBs. However, it should be used with caution when sampling for metals.

The use of 1/4 inch or 3/8 inch (inner diameter) tubing is preferred. This will help ensure the tubing remains liquid filled when operating at very low pumping rates.

Pharmaceutical grade (Pharmed) tubing should be used for the section around the rotor head of a peristaltic pump, to minimize gaseous diffusion.

C. Water level measuring device(s), capable of measuring to 0.01 foot accuracy (electronic "tape", pressure transducer). Recording pressure transducers, mounted above the pump, are especially helpful in tracking water levels during pumping operations, but their use

must include check measurements with a water level "tape" at the start and end of each record.

D. Flow measurement supplies (e.g., graduated cylinder and stop watch).

E. Interface probe, if needed.

F. Power source (generator, nitrogen tank, etc.). If a gasoline generator is used, it must be located downwind and at least 30 feet from the well so that the exhaust fumes do not contaminate the samples.

G. Indicator field parameter monitoring instruments - pH, Eh, dissolved oxygen (DO), turbidity, specific conductance, and temperature. Use of a flow-through-cell is required when measuring all listed parameters, except turbidity. Standards to perform field calibration of instruments. Analytical methods are listed in 40 CFR 136, 40 CFR 141, and SW-846. For Eh measurements, follow manufacturer's instructions.

H. Decontamination supplies (for example, non-phosphate detergent, distilled/deionized water, isopropyl alcohol, etc.).

I. Logbook(s), and other forms (for example, well purging forms).

J. Sample Bottles.

K. Sample preservation supplies (as required by the analytical methods).

L. Sample tags or labels.

M. Well construction data, location map, field data from last sampling event.

N. Well keys.

O. Site specific Sample and Analysis Plan/Quality Assurance Project Plan.

P. PID or FID instrument (if appropriate) to detect VOCs for health and safety purposes, and provide qualitative field evaluations.

III. PRELIMINARY SITE ACTIVITIES

Check well for security damage or evidence of tampering, record pertinent observations.

Lay out sheet of clean polyethylene for monitoring and sampling equipment.

Remove well cap and immediately measure VOCs at the rim of the well with a PID or FID instrument and record the reading in the field logbook.

If the well casing does not have a reference point (usually a V-cut or indelible mark in the well casing), make one. Describe its location and record the date of the mark in the logbook.

A synoptic water level measurement round should be performed (in the shortest possible time) before any purging and sampling activities begin. It is recommended that water level depth (to 0.01 ft.) and total well depth (to 0.1 ft.) be measured the day before, in order to allow for re-settlement of any particulates in the water column. If measurement of total well depth is not made the day before, it should not be measured until after sampling of the well is complete. All measurements must be taken from the established referenced point. Care should be taken to minimize water column disturbance.

Check newly constructed wells for the presence of LNAPLs or DNAPLs before the initial sampling round. If none are encountered, subsequent check measurements with an interface probe are usually not needed unless analytical data or field head space information signal a worsening situation. Note: procedures for collection of LNAPL and DNAPL samples are not addressed in this SOP.

IV. PURGING AND SAMPLING PROCEDURE

Sampling wells in order of increasing chemical concentrations (known or anticipated) is preferred.

1. Install Pump

Lower pump, safety cable, tubing and electrical lines slowly (to minimize disturbance) into the well to the midpoint of the zone to be sampled. The Sampling and Analysis Plan should specify the sampling depth, or provide criteria for selection of intake depth for each well (see Section I). If possible keep the pump intake at least two

feet above the bottom of the well, to minimize mobilization of particulates present in the bottom of the well. Collection of turbid free water samples may be especially difficult if there is two feet or less of standing water in the well.

2. Measure Water Level

Before starting pump, measure water level. If recording pressure transducer is used-initialize starting condition.

3. Purge Well

3a. Initial Low Stress Sampling Event

Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet but remains stable, continue purging until indicator field parameters stabilize.

Monitor and record water level and pumping rate every three to five minutes (or as appropriate) during purging. Record any pumping rate adjustments (both time and flow rate). Pumping rates should, as needed, be reduced to the minimum capabilities of the pump (for example, 0.1 - 0.4 l/min) to ensure stabilization of indicator parameters. Adjustments are best made in the first fifteen minutes of pumping in order to help minimize purging time. During pump start-up, drawdown may exceed the 0.3 feet target and then "recover" as pump flow adjustments are made. Purge volume calculations should utilize stabilized drawdown value, not the initial drawdown. Do not allow the water level to fall to the intake level (if the static water level is above the well screen, avoid lowering the water level into the screen). The final purge volume must be greater than the stabilized drawdown volume plus the extraction tubing volume.

Wells with low recharge rates may require the use of special pumps capable of attaining very low pumping rates (bladder, peristaltic), and/or the use of dedicated equipment. If the recharge rate of the well is lower than extraction rate capabilities of currently manufactured pumps and the well is essentially dewatered during purging, then the well should be sampled as soon as the water level has recovered sufficiently to collect the appropriate volume needed for all anticipated samples (ideally the intake should not be moved during this recovery period). Samples may then be collected even though the indicator field parameters have not stabilized.

3b. Subsequent Low Stress Sampling Events

After synoptic water level measurement round, check intake depth and drawdown information from previous sampling event(s) for each well. Duplicate, to the extent practicable, the intake depth and extraction rate (use final pump dial setting information) from previous event(s). Perform purging operations as above.

4. Monitor Indicator Field Parameters

During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, Eh, DO) every three to five minutes (or less frequently, if appropriate). Note: during the early phase of purging emphasis should be put on minimizing and stabilizing pumping stress, and recording those adjustments. Purging is considered complete and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings, taken at three (3) to five (5) minute intervals, are within the following limits:

turbidity (10% for values greater than 1 NTU),
DO (10%),
specific conductance (3%),
temperature (3%),
pH (± 0.1 unit),
ORP/Eh (± 10 millivolts).

All measurements, except turbidity, must be obtained using a flow-through-cell. Transparent flow-through-cells are preferred, because they allow field personnel to watch for particulate build-up within the cell. This build-up may affect indicator field parameter values measured within the cell and may also cause an underestimation of turbidity values measured after the cell. If the cell needs to be cleaned during purging operations, continue pumping and disconnect cell for cleaning, then reconnect after cleaning and continue monitoring activities.

The flow-through-cell must be designed in a way that prevents air bubble entrapment in the cell. When the pump is turned off or cycling on/off (when using a bladder pump), water in the cell must not drain out. Monitoring probes must be submerged in water at all times. If two flow-through-cells are used in series, the one containing the dissolved oxygen probe should come first (this parameter is most susceptible to error if air leaks into the system).

5. Collect Water Samples

Water samples for laboratory analyses must be collected before water has passed through the flow-through-cell (use a by-pass assembly or disconnect cell to obtain sample).

VOC samples should be collected first and directly into pre-preserved sample containers. Fill all sample containers by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence.

During purging and sampling, the tubing should remain filled with water so as to minimize possible changes in water chemistry upon contact with the atmosphere. It is recommended that 1/4 inch or 3/8 inch (inside diameter) tubing be used to help insure that the sample tubing remains water filled. If the pump tubing is not completely filled to the sampling point, use one of the following procedures to collect samples: (1) add clamp, connector (Teflon or stainless steel) or valve to constrict sampling end of tubing; (2) insert small diameter Teflon tubing into water filled portion of pump tubing allowing the end to protrude beyond the end of the pump tubing, collect sample from small diameter tubing; (3) collect non-VOC samples first, then increase flow rate slightly until the water completely fills the tubing, collect sample and record new drawdown, flow rate and new indicator field parameter values.

Add preservative, as required by analytical methods, to samples immediately after they are collected if the sample containers are not pre-preserved. Check analytical methods (e.g. EPA SW-846, water supply, etc.) for additional information on preservation. Check pH for all samples requiring pH adjustment to assure proper pH value. For VOC samples, this will require that a test sample be collected during purging to determine the amount of preservative that needs to be added to the sample containers prior to sampling.

If determination of filtered metal concentrations is a sampling objective, collect filtered water samples using the same low flow procedures. The use of an in-line filter is required, and the filter size (0.45 um is commonly used) should be based on the sampling objective. Pre-rinse the filter with approximately 25 - 50 ml of ground water prior to sample collection. Preserve filtered water sample immediately. Note: filtered water samples are not an acceptable substitute for unfiltered samples when the monitoring objective is to obtain chemical concentrations of total mobile contaminants in ground water for human health risk calculations.

Label each sample as collected. Samples requiring cooling (volatile organics, cyanide, etc.) will be placed into a cooler with ice or refrigerant for delivery to the laboratory. Metal samples after acidification to a pH less than 2 do not need to be cooled.

6. Post Sampling Activities

If recording pressure transducer is used, remeasure water level with tape.

After collection of the samples, the pump tubing may either be dedicated to the well for resampling (by hanging the tubing inside the well), decontaminated, or properly discarded.

Before securing the well, measure and record the well depth (to 0.1 ft.), if not measured the day before purging began. Note: measurement of total well depth is optional after the initial low stress sampling event. However, it is recommended if the well has a "silting" problem or if confirmation of well identity is needed.

Secure the well.

V. DECONTAMINATION

Decontaminate sampling equipment prior to use in the first well and following sampling of each subsequent well. Pumps will not be removed between purging and sampling operations. The pump and tubing (including support cable and electrical wires which are in contact with the well) will be decontaminated by one of the procedures listed below.

<u>Procedure 1</u>

The decontaminating solutions can be pumped from either buckets or short PVC casing sections through the pump or the pump can be disassembled and flushed with the decontaminating solutions. It is recommended that detergent and isopropyl alcohol be used sparingly in the decontamination process and water flushing steps be extended to ensure that any sediment trapped in the pump is removed. The pump exterior and electrical wires must be rinsed with the decontaminating solutions, as well. The procedure is as follows:

Flush the equipment/pump with potable water.

Flush with non-phosphate detergent solution. If the solution is

recycled, the solution must be changed periodically.

Flush with potable or distilled/deionized water to remove all of the detergent solution. If the water is recycled, the water must be changed periodically.

Flush with isopropyl alcohol (pesticide grade). If equipment blank data from the previous sampling event show that the level of contaminants is insignificant, then this step may be skipped.

Flush with distilled/deionized water. The final water rinse must not be recycled.

Procedure 2

Steam clean the outside of the submersible pump.

Pump hot potable water from the steam cleaner through the inside of the pump. This can be accomplished by placing the pump inside a three or four inch diameter PVC pipe with end cap. Hot water from the steam cleaner jet will be directed inside the PVC pipe and the pump exterior will be cleaned. The hot water from the steam cleaner will then be pumped from the PVC pipe through the pump and collected into another container. Note: additives or solutions should not be added to the steam cleaner.

Pump non-phosphate detergent solution through the inside of the pump. If the solution is recycled, the solution must be changed periodically.

Pump potable water through the inside of the pump to remove all of the detergent solution. If the solution is recycled, the solution must be changed periodically.

Pump distilled/deionized water through the pump. The final water rinse must not be recycled.

VI. FIELD QUALITY CONTROL

Quality control samples are required to verify that the sample collection and handling process has not compromised the quality of the ground water samples. All field quality control samples must be prepared the same as regular investigation samples with regard to sample volume, containers, and preservation. The following quality control samples shall be collected for each batch of samples (a batch

may not exceed 20 samples). Trip blanks are required for the VOC samples at a frequency of one set per VOC sample cooler.

Field duplicate.

Matrix spike.

Matrix spike duplicate.

Equipment blank.

Trip blank (VOCs).

Temperature blank (one per sample cooler).

Equipment blank shall include the pump and the pump's tubing. If tubing is dedicated to the well, the equipment blank will only include the pump in subsequent sampling rounds.

Collect samples in order from wells with lowest contaminant concentration to highest concentration. Collect equipment blanks after sampling from contaminated wells and not after background wells.

Field duplicates are collected to determine precision of sampling procedure. For this procedure, collect duplicate for each analyte group in consecutive order (VOC original, VOC duplicate, SVOC original, SVOC duplicate, etc.).

If split samples are to be collected, collect split for each analyte group in consecutive order (VOC original, VOC split, etc.). Split sample should be as identical as possible to original sample.

All monitoring instrumentation shall be operated in accordance with EPA analytical methods and manufacturer's operating instructions. EPA analytical methods are listed in 40 CFR 136, 40 CFR 141, and SW-846 with exception of Eh, for which the manufacturer's instructions are to be followed. Instruments shall be calibrated at the beginning of each day. If a measurement falls outside the calibration range, the instrument should be re-calibrated so that all measurements fall within the calibration range. At the end of each day, check calibration to verify that instruments remained in calibration. Temperature measuring equipment, thermometers and thermistors, need not be calibrated to the above frequency. They should be checked for accuracy prior to field use according to EPA Methods and the manufacturer's instructions.

VII. FIELD LOGBOOK

A field log shall be kept to document all ground water field monitoring activities (see attached example matrix), and record all of the following:

Well identification.

Well depth, and measurement technique.

Static water level depth, date, time and measurement technique.

Presence and thickness of immiscible liquid (NAPL) layers and detection method.

Pumping rate, drawdown, indicator parameters values, and clock time, at the appropriate time intervals; calculated or measured total volume pumped.

Well sampling sequence and time of each sample collection.

Types of sample bottles used and sample identification numbers.

Preservatives used.

Parameters requested for analysis.

Field observations during sampling event.

Name of sample collector(s).

Weather conditions.

QA/QC data for field instruments.

Any problems encountered should be highlighted.

Description of all sampling equipment used, including trade names, model number, diameters, material composition, etc.

VIII. DATA REPORT

Data reports are to include laboratory analytical results, QA/QC information, and whatever field logbook information is needed to allow for a full evaluation of data useability.

EXAMPLE (Minimum Requirements) Page____of____

Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name)_____ Depth to _____/_____ of screen
Well Number_____ Date_____ (below MP) top bottom
Field Personnel_____ Pump Intake at (ft. below MP)_____
Sampling Organization_____ Purging Device; (pump type)_____
Identify MP

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (stand in for Eh).

APPENDIX F

FIELD LOG SHEETS - LOW FLOW SAMPLING

EXAMPLE (Minimum Requirements)
Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) NWIRP Calverton
Well Number NP MW01 Date 6/23/97
Field Personnel T. Sawyer ; E. Huss
Sampling Organization Brown & Root Env.
Identify MP TOC

Depth to (below MP) 41.68 / 51.68 of screen
top bottom
Pump Intake at (ft. below MP) 47
Purging Device; (pump type) Grunfos

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments
1240	43.78	161	1000	1	16.0	.068	5.38		9.69	7	
1246	43.84	161	1000	6	15.3	.067	5.33		9.16	0	
1250	43.85	161	1000	10	14.2	.064	5.26		9.41	0	
1255	43.87	161	1000	15	12.7	.064	5.28		9.53	0	
1202	43.87	160	1000	22	13.4	.064	5.31		9.44	0	1 volume
1215	43.87	160	1000	35	13.5	.064	5.24		9.16	0	
1220	43.87	160	1000	40	13.3	.064	5.22		9.21	0	2 volume
1230	43.88	160	1000	50	13.2	.064	5.23		9.21	0	
1240	43.86	160	1000	60	13.2	.063	5.21		9.25	0	3 volumes

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm(same as µmhos/cm)at 25°C.
3. Oxidation reduction potential (stand in for Eh).

EXAMPLE (Minimum Requirements)

Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) NWIRP Calverton
Well Number NP-MW02 Date
Field Personnel T. Sawyer E. Huss
Sampling Organization Brown + Root Environmental
Identify MP TOC

Depth to (below MP) 16.55 top / 26.55 bottom of screen
Pump Intake at (ft. below MP) 22.0
Purging Device; (pump type) Grundfos Redi-flow 2

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] mS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments
											Start Purge 0936
0942	17.75	98	1.00	6	13.4	2.10	6.84		0.39	4	
0950	17.75	97	1.00	14	13.8	2.05	6.86		-0.39	2	
0955	17.75	96	1.00	19	13.5	2.05	6.86		-0.56	0	
1000	17.75	96	1.00	24	13.5	2.03	6.88		-0.58	0	
1005	17.75	96	1.00	29	13.4	2.01	6.89		-0.59	0	
1010	17.75	96	1.00	34	13.4	2.00	6.89		-0.59	0	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm (same as µmhos/cm) at 25°C.
3. Oxidation reduction potential (stand in for Eh).

EXAMPLE (Minimum Requirements)

Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) NWIRP-Calverton
Well Number NP-MW02-I Date 6/24/97
Field Personnel T. Zimmer, E. Hess
Sampling Organization Brown & Root Environmental
Identify MP TOC

Depth to (below MP) 61 / 71 of screen (top / bottom)
Pump Intake at (ft. below MP) 66
Purging Device; (pump type) Grundfos

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] mS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments
											Start Purge 0800
0815	17.09	102	1.00	10	13.7	.526	6.08		1.51	0	
0825	17.10	102	1.00	20	13.2	.508	6.11		1.44	0	
0835	17.10	102	1.00	30	13.0	.492	6.09		1.66	0	
0840	17.10	102	1.00	35	13.0	.489	6.10		1.78	0	
0845	17.09	102	1.00	40	13.0	.485	6.09		1.93	0	
0850	17.10	102	1.00	45	13.0	.484	6.10		1.99	0	
0855	17.10	102	1.00	50	12.9	.484	6.09		2.00	0	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm (same as µmhos/cm) at 25°C.
3. Oxidation reduction potential (stand in for Eh).

EXAMPLE (Minimum Requirements)

Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) NWRP - Silverton
Well Number NP-MW03 Date 6/23/97
Field Personnel T Sawyer E Hall
Sampling Organization Brown & ROOT ENV
Identify MP TOC

Depth to (below MP) 14.77 top / 24.77 bottom of screen
Pump Intake at (ft. below MP) 20
Purging Device; (pump type) grunfos

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate l/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments Start purge 1550
1555	15.86	93	1.00	5.00	14.8	.204	6.06		-0.04	0	
1602	15.86	98	0.60/1.00	10.00	14.4	.205	6.03		-0.25	0	
1609	15.86	98	1.00	17.0	14.5	.205	6.02		0.34	0	
1616	15.86	98	1.00	24.0	14.5	.204	6.03		0.42	0	1st volume
1624	15.86	98	1.00	32.0	14.8	.206	6.01		0.42	0	Purge thru vessel related into Stride
1632	15.85	98	1.00	40.0	14.5	.207	6.02		0.02	0	
1639	15.85	98	1.00	49.0	13.6	.206	6.03		-0.38	0	2nd volume
1647	15.89	98	1.00	56.0	13.0	.207	6.03		-0.57	0	
1655	15.89	98	1.00	64.0	14.2	.208	6.04		0.64	0	
1703	15.89	98	1.00	72.0	13.9	.208	6.04		-0.44	0	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm (same as µmhos/cm) at 25°C.
3. Oxidation reduction potential (stand in for Eh).

EXAMPLE (Minimum Requirements)

Page 1 of 1

Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) NWIRP Calverton
Well Number NP-MW04 Date 6/23/97
Field Personnel T. Sawyer, E. Huss
Sampling Organization Brown & Root Env.
Identify MP TOC

Depth to (below MP) 37.05 / 47.05 of screen (top / bottom)
Pump Intake at (ft. below MP) 44'
Purging Device; (pump type) grunfos

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] µS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments
											Start pumping ~~1415~~ 1425
1429	40.04	148	0.95	4	15.0	.066	5.18		7.01	0	
1435	40.09	146	1.00	10	14.6	.065	5.14		6.65	0	
1442	40.10	146	1.00	16	14.5	.065	5.10		7.68	0	1 volume
1448	40.10	146	0.95	22	14.5	.064	5.07		7.44	0	
1454	40.10	146	0.95	28	14.6	.064	5.14		7.62	0	
1502	40.11	146	1.00	36	14.6	.064	5.09		7.41	1	2nd volume
1508	40.11	146	1.00	42	14.5	.064	5.10		7.37	1	
1514	40.11	146	1.00	48	14.6	.064	5.10		8.04	0	
1521	40.11	146	1.00	55	14.5	.064	5.10		7.37	0	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm (same as µmhos/cm) at 25°C.
3. Oxidation reduction potential (stand in for Eh).

WL 40.04

EXAMPLE (Minimum Requirements) Page____of____

Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) NWIRP, -Calverton
Well Number NP-MW05 Date 6/24/97
Field Personnel T. Sawyer + E. Huss
Sampling Organization Brown + Root Environmental
Identify MP TOC

Depth to (below MP) 5.62 / 15.62 of screen (top / bottom)
Pump Intake at (ft. below MP) 10.5
Purging Device; (pump type) Grundfos

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] mS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments
											Start Purge 1145
1152	8.62	74	1.00	7	14.4	.046	4.96		6.60	2	
1158	8.62	70	1.00	13	12.5	.060	5.47		3.83	0	
1203	8.60	67	1.00	18	12.7	.067	5.58		3.56	0	
1207	8.60	67	1.00	22	13.1	.066	5.57		3.62	0	
1210	8.61	67	1.00	25	13.2	.067	5.57		3.66	0	
1214	8.61	67	1.00	29	13.3	.067	5.56		3.78	0	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm (same as µmhos/cm) at 25°C.
3. Oxidation reduction potential (stand in for Eh).

EXAMPLE (Minimum Requirements)

Well PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) NWIRP
Well Number NP-MW06 Date 6/24/97
Field Personnel J. Sawyer, E. Huss
Sampling Organization Brown & Root Environmental
Identify MP TOC

Depth to (below MP) 5.53 top / 15.53 bottom of screen
Pump Intake at (ft. below MP) 10'
Purging Device; (pump type) Grundfos

Clock Time 24 HR	Water Depth below MP ft	Pump Dial[1]	Purge Rate ml/min	Cum. Volume Purged liters	Temp. °C	Spec. Cond.[2] mS/cm	pH	ORP/ Eh[3] mv	DO mg/L	Turb-idity NTU	Comments
											Start Purge 1100
1103	4.65	48	1.00	3	14.8	.080	6.04		-0.46	1	
1108	4.68	48	1.00	8	14.5	.073	5.96		-0.46	1	
1112	4.67	48	1.00	12	14.3	.071	5.90		-0.53	1	
1115	4.67	48	1.00	15	14.2	.070	5.90		-0.54	1	
1119	4.66	48	1.00	19	14.2	.070	5.88		-0.52	1	

1. Pump dial setting (for example: hertz, cycles/min, etc).
2. µSiemens per cm (same as µmhos/cm) at 25°C.
3. Oxidation reduction potential (stand in for Eh).

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 7398 / CTO 270

WELL I.D.: NP-MW01
DATE: 11/13/97

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Temp. (Celcius)	pH (S.U.)	Cond.	DO (mg/L)	Sal. %	Turb. (NTU)	Comments
1555	45.87	900	9.9	5.10	0.057	8.10	0.00	0.0	
1600	45.87	900	12.6	5.11	0.058	7.86	0.00	0.0	
1605	45.87	900	13.2	5.12	0.058	7.82	0.00	0.0	
1610	45.87	900	13.1	5.14	0.058	8.00	0.00	0.0	
1615	45.87	900	13.5	5.12	0.058	7.62	0.00	0.0	
1620	45.87	900	13.7	5.11	0.058	6.74	0.00	0.0	
1625	45.87	900	13.7	5.11	0.057	7.25	0.00	0.0	Purge ends 8 gallons purged Sample 1635

SIGNATURE(S)

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP- Calverton
PROJECT NUMBER: 7398

WELL I.D.: NP-MW02-S
DATE: 11/11/97

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Temp. (Celcius)	pH (S.U.)	Cond.	DO (mg/L)	Sal. %	Turb. (NTU)	Comments
1500		950	13.5	6.74	1.90	1.64	0.08	38	
1510	19.41	950	13.6	6.76	1.89	3.08	0.08	32	
1515	19.41	950	13.7	6.77	1.90	3.15	0.08	33	
1520	19.41	950	14.1	6.76	1.91	2.91	0.08	29	
1525	19.41	950	14.5	6.77	1.90	2.90	0.08	22	
1530	19.41	950	14.7	6.77	1.91	2.75	0.08	17	
1535	19.41	950	14.4	6.75	1.92	2.76	0.09	9	
1540	19.41	950	14.3	6.75	1.93	2.69	0.09	4	stop. Tot. Amt: 9 gals
									Collect sample at 1545

SIGNATURE(S) Paul M. Di

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP - Calverton
PROJECT NUMBER: 7398

WELL I.D.: NP-MW02-I
DATE: 11/11/97

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Temp. (Celcius)	pH (S.U.)	Cond.	DO (mg/L)	Sal. %	Turb. (NTU)	Comments
1600	19.00	1000	12.0	7.89	0.371	2.14	0.01	5	
1605	19.00	1000	12.2	7.53	0.349	2.09	0.01	9	
1610	19.00	1000	12.2	7.16	0.322	2.40	0.01	7	
1615	19.00	1000	12.4	7.12	0.315	2.35	0.01	7	
1620	19.00	1000	12.6	6.92	0.296	2.44	0.01	7	
1625	19.00	1000	12.4	6.90	0.271	2.27	0.01	7	
1630	19.00	1000	12.3	6.57	0.255	3.47	0.00	6	
1635	19.00	1000	12.2	6.49	0.239	4.45	0.00	5	
1640	19.00	1000	12.2	6.48	0.234	5.10	0.00	3	
1645	19.00	1000	12.2	6.48	0.230	5.21	0.00	2	
1650	19.00	1000	12.2	6.47	0.229	5.41	0.00	1	Stop purging
									Total amount purged
									= 50L = 13.2gal.
									Sampled at 1655

SIGNATURE(S) Paulm. D

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 7398

WELL I.D.: NP-MW03
DATE: 11/13/97

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Temp. (Celcius)	pH (S.U.)	Cond.	DO (mg/L)	Sal. %	Turb. (NTU)	Comments
0855	17.80	1000	15.5	5.75	0.225	0.38	0.00	0.0	
0900	17.80	1000	15.7	5.86	0.216	2.14	0.00	0.0	
0905	17.80	1000	15.8	5.88	0.215	2.36	0.00	0.0	
0910	17.80	1000	16.2	5.89	0.212	2.53	0.00	0.0	
0915	17.80	1000	16.3	5.88	0.213	2.13	0.00	0.0	
0920	17.80	1000	16.1	5.86	0.216	1.60	0.00	0.0	
0925	17.80	1000	15.9	5.85	0.220	1.40	0.00	0.0	Stop purge ≅ 8gal. purged
									Sampled at 1010

SIGNATURE(S)

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Culverton
PROJECT NUMBER: 7398

WELL I.D.: NP-MW04
DATE: 11/13/97

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Temp. (Celcius)	pH (S.U.)	Cond.	DO (mg/L)	Sal. %	Turb. (NTU)	Comments
1405	42.10'	1000	11.2	4.85	0.048	7.08	0.00	0.0	
1410	42.10'	1000	12.3	4.77	0.053	10.19	0.00	0.0	
1415	42.10'	1000	12.6	4.77	0.052	7.49	0.00	0.0	
1420	42.10'	1000	13.9	4.77	0.052	7.01	0.00	0.0	
1425	42.10'	1000	13.6	4.78	0.054	7.62	0.00	0.0	
1430	42.10'	1000	13.3	4.77	0.053	6.99	0.00	0.0	
1435	42.10'	1000	13.3	4.79	0.055	7.94	0.00	0.0	
1440	42.10'	1000	13.3	4.77	0.053	7.96	0.00	0.0	Stop Purge 6.6 gallons purged
									1450 collect sample

SIGNATURE(S)

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 7398

WELL I.D.: NP-MW05
DATE: 11/12/97

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Temp. (Celcius)	pH (S.U.)	Cond.	DO (mg/L)	Sal. %	Turb. (NTU)	Comments
1115	10.51	1000	11.7	4.81	0.056	4.81	0.00	0.0	
1120	10.52	1000	14.1	4.79	0.059	3.94	0.00	0.0	
1125	10.52	1000	14.5	5.17	0.063	9.68	0.00	0.0	
1130	10.52	1000	15.3	5.20	0.060	3.37	0.00	0.0	
1135	10.52	1000	15.1	5.37	0.059	3.93	0.00	0.0	
1140	10.52	950	15.0	5.38	0.064	2.49	0.00	0.0	
1145	10.52	950	14.9	5.36	0.062	2.84	0.00	0.0	
1150	10.52	950	15.0	5.34	0.063	2.79	0.00	0.0	
1158									STOP Pump After sample collection
									≅10.5 gallons purged

SIGNATURE(S)

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Calverton
PROJECT NUMBER: 7398

WELL I.D.: NP-MW06
DATE: 11/12/97

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Temp. (Celcius)	pH (S.U.)	Cond.	DO (mg/L)	Sal. %	Turb. (NTU)	Comments
0907	6.60	980	13.0	5.56	0.070	1.88	0.00	0	
0912	6.60	1000	14.4	5.71	0.074	8.50	0.00	30	
0917	6.60	1000	14.7	5.71	0.074	8.22	0.00	28	
0922	6.60	1000	14.8	5.73	0.075	8.17	0.00	21	
0927	6.60	1000	14.8	5.72	0.068	2.30	0.00	9	
0932	6.60	1000	14.9	5.72	0.070	2.53	0.00	0	
0937	6.60	1000	14.9	5.73	0.070	2.14	0.00	0	Stop Pump
									Total Amount Purged
									≅ 8 gallons

SIGNATURE(S)

APPENDIX G

MONITORING WELL CONSTRUCTION SHEETS

BORING NO.: NP-MW02I

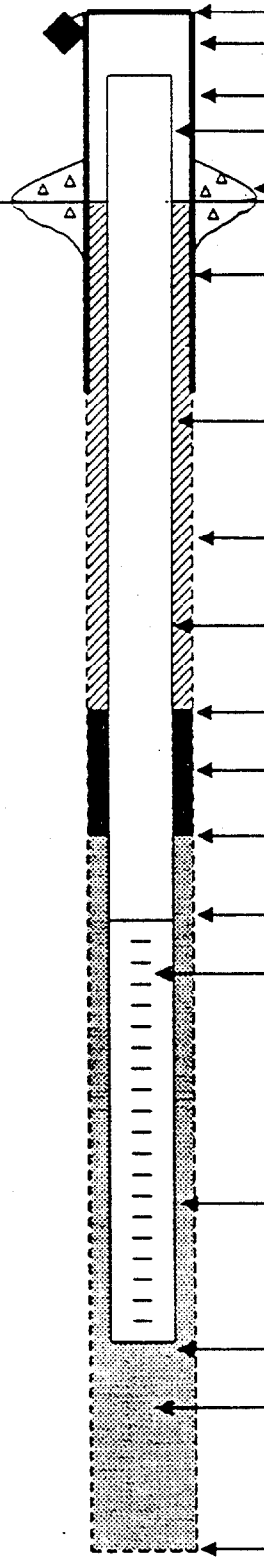
OVERBURDEN
MONITORING WELL SHEET

PROJECT NWIRP
PROJECT NO. 7398
ELEVATION
FIELD GEOLOGIST TERESA SAWYER

LOCATION Olverton, NY
BORING NP-MW02I
DATE 5/8/97

DRILLER Mark Muller
DRILLING METHOD HSA
DEVELOPMENT METHOD

GROUND ELEVATION



ELEVATION OF TOP OF SURFACE CASING:
ELEVATION OF TOP OF RISER PIPE:

STICK - UP TOP OF SURFACE CASING:
STICK - UP RISER PIPE: 1.5

TYPE OF SURFACE SEAL: concrete

I.D. OF SURFACE CASING: 8"
TYPE OF SURFACE CASING: STEEL

RISER PIPE I.D. 4"
TYPE OF RISER PIPE: Schedule 40 PVC

BOREHOLE DIAMETER: 10.25

TYPE OF BACKFILL: cement/bentonite grout

ELEVATION / DEPTH TOP OF SEAL: 153

TYPE OF SEAL: 1/4 bentonite pellet

DEPTH TOP OF SAND PACK: 56

ELEVATION / DEPTH TOP OF SCREEN: 160

TYPE OF SCREEN: schedule 40 PVC

SLOT SIZE x LENGTH: 0.020 10'

I.D. OF SCREEN: 4"

TYPE OF SAND PACK: #1 FILTER SA

ELEVATION / DEPTH BOTTOM OF SCREEN: 170

ELEVATION / DEPTH BOTTOM OF SAND PACK: 173
TYPE OF BACKFILL BELOW OBSERVATION WELL: # FILTER SAND

ELEVATION / DEPTH OF HOLE: 173

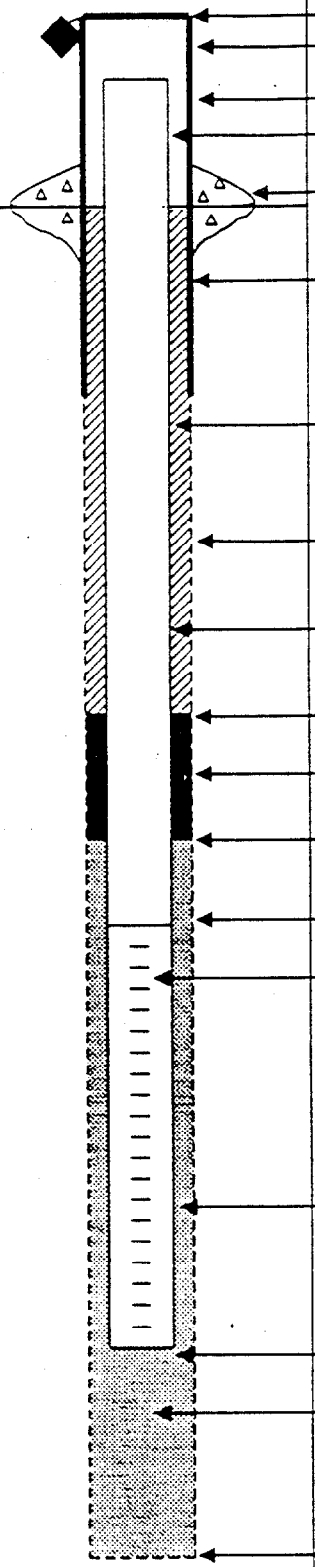
BORING NO.: NP-MW05

OVERBURDEN
MONITORING WELL SHEET

PROJECT NWIRP- Calverton
PROJECT NO. 7398
ELEVATION
FIELD GEOLOGIST T. Sawyer

LOCATION Calverton, NY
BORING NP-MW05
DATE 5/10/97

DRILLER M. Muller
DRILLING METHOD HSA
DEVELOPMENT METHOD



ELEVATION OF TOP OF SURFACE CASING :
ELEVATION OF TOP OF RISER PIPE:
STICK - UP TOP OF SURFACE CASING
STICK - UP RISER PIPE :
TYPE OF SURFACE SEAL: Concrete
I.D. OF SURFACE CASING: 8"
TYPE OF SURFACE CASING: STEEL
RISER PIPE I.D. 4"
TYPE OF RISER PIPE: Schedule 40 PVC
BOREHOLE DIAMETER: 10.25
TYPE OF BACKFILL: Concrete
ELEVATION / DEPTH TOP OF SEAL: 12
TYPE OF SEAL: Bentonite Pellet Seal
DEPTH TOP OF SAND PACK: 3
ELEVATION / DEPTH TOP OF SCREEN: 15
TYPE OF SCREEN: Schedule 40 PVC
SLOT SIZE x LENGTH: 0.02 10'
I.D. OF SCREEN: 4"
TYPE OF SAND PACK: # 1 FILTER SAND
ELEVATION / DEPTH BOTTOM OF SCREEN: 15'
ELEVATION / DEPTH BOTTOM OF SAND PACK: 16'
TYPE OF BACKFILL BELOW OBSERVATION WELL: # 1 FILTER SAND
ELEVATION / DEPTH OF HOLE: 16'

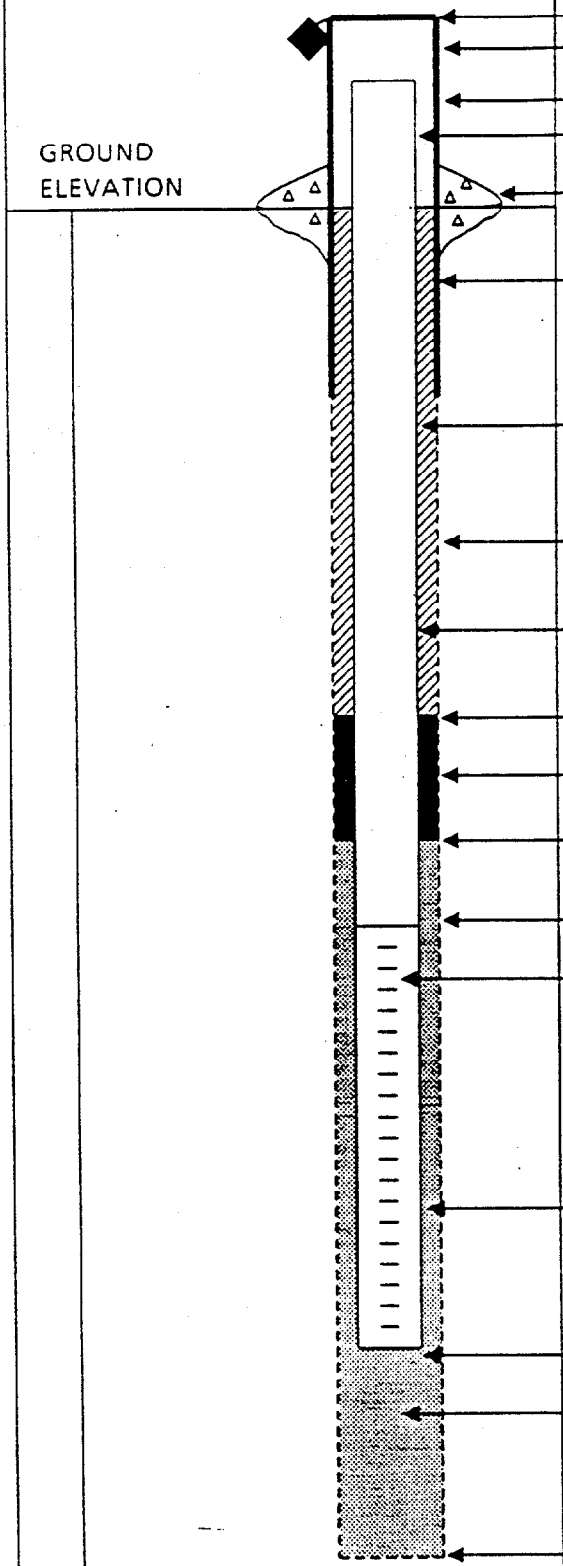
BORING NO.: NP-MW06

OVERBURDEN
MONITORING WELL SHEET

PROJECT NWIRP-Calverton
PROJECT NO. 7396
ELEVATION
FIELD GEOLOGIST T. Sawyer

LOCATION Calverton, NY
BORING NP-MW06
DATE 5/10/97

DRILLER M. Muller
DRILLING METHOD HSA
DEVELOPMENT METHOD



ELEVATION OF TOP OF SURFACE CASING :
ELEVATION OF TOP OF RISER PIPE:
STICK - UP TOP OF SURFACE CASING
STICK - UP RISER PIPE :
TYPE OF SURFACE SEAL: Concrete
I.D. OF SURFACE CASING: 8"
TYPE OF SURFACE CASING: STEEL
RISER PIPE I.D. 4"
TYPE OF RISER PIPE: Schedule 40 PVC
BOREHOLE DIAMETER: 10.25
TYPE OF BACKFILL: NA
ELEVATION / DEPTH TOP OF SEAL: 10'
TYPE OF SEAL: Concrete
DEPTH TOP OF SAND PACK: 2'
ELEVATION / DEPTH TOP OF SCREEN: 13.5
TYPE OF SCREEN: Schedule 40 PVC
SLOT SIZE x LENGTH: 0.02 10'
I.D. OF SCREEN: 4"
TYPE OF SAND PACK: #1 FILTER SAND
ELEVATION / DEPTH BOTTOM OF SCREEN: 13.5
ELEVATION / DEPTH BOTTOM OF SAND PACK: 15
TYPE OF BACKFILL BELOW OBSERVATION WELL: #1 FILTER SAND
ELEVATION / DEPTH OF HOLE: 15

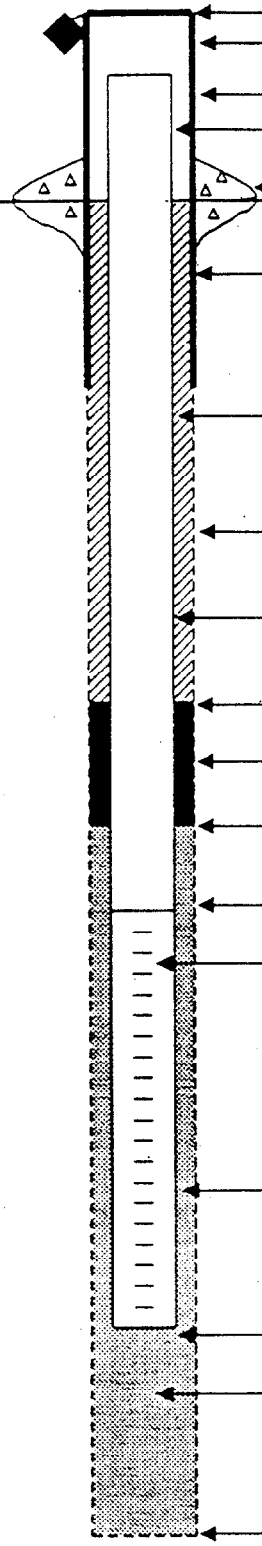
BORING NO.: FT-MW08

OVERBURDEN
MONITORING WELL SHEET

PROJECT NWIRP-Calverton
PROJECT NO. 7398
ELEVATION
FIELD GEOLOGIST TERESA SAUCIER

LOCATION Calverton, NY
BORING FT-MW08
DATE 6/7/97

DRILLER M. Mueller
DRILLING METHOD HSA
DEVELOPMENT METHOD



ELEVATION OF TOP OF SURFACE CASING :
ELEVATION OF TOP OF RISER PIPE:

STICK - UP TOP OF SURFACE CASING
STICK - UP RISER PIPE :

TYPE OF SURFACE SEAL: concrete

I.D. OF SURFACE CASING: 8"
TYPE OF SURFACE CASING: STEEL

RISER PIPE I.D. 4"
TYPE OF RISER PIPE: Schedule 40 PVC

BOREHOLE DIAMETER: 10.25

TYPE OF BACKFILL: Concrete

ELEVATION / DEPTH TOP OF SEAL: 12'

TYPE OF SEAL: Bentonite Pellets

DEPTH TOP OF SAND PACK: 3'

ELEVATION / DEPTH TOP OF SCREEN: 14'

TYPE OF SCREEN: Schedule 40 PVC

SLOT SIZE x LENGTH: 0.020 10'

I.D. OF SCREEN: 4"

TYPE OF SAND PACK: #1 FILTER SAND

ELEVATION / DEPTH BOTTOM OF SCREEN: 14

ELEVATION / DEPTH BOTTOM OF SAND PACK: 16
TYPE OF BACKFILL BELOW OBSERVATION WELL: #1 FILTER SAND

ELEVATION / DEPTH OF HOLE: 16

BORING LOG

PROJECT NAME: Calverton-NWIRP
PROJECT NUMBER: 7398
DRILLING COMPANY: Miller Env Group
WATER LEVEL DATA:

BORING NUMBER: FT-MW08
DATE: 6/7/97
GEOLOGIST: TERESA SAWYER

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows/ 6" or RQD (%)	Sample Recovery/ Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	*USCS	Remarks	FID or PID Reading (ppm)
NA					LOOSE	DK BROWN	SILTY SAND			
							↓			
					LOOSE	BRN	SILTY SAND			
									▼ WL ≈	
									5' bls	
							↓ WET			
					LOOSE	TAN	MED GRAINED SILTY			
							SAND			
							↓			

5

10

15

*When rock coring enter rock brokeness.

CONVERTED TO WELL: X Yes ___ No;
WELL I.D.#: FT-MW-08
REMARKS: CME 51 Hollow Stem Auger Rig

Signature(s):

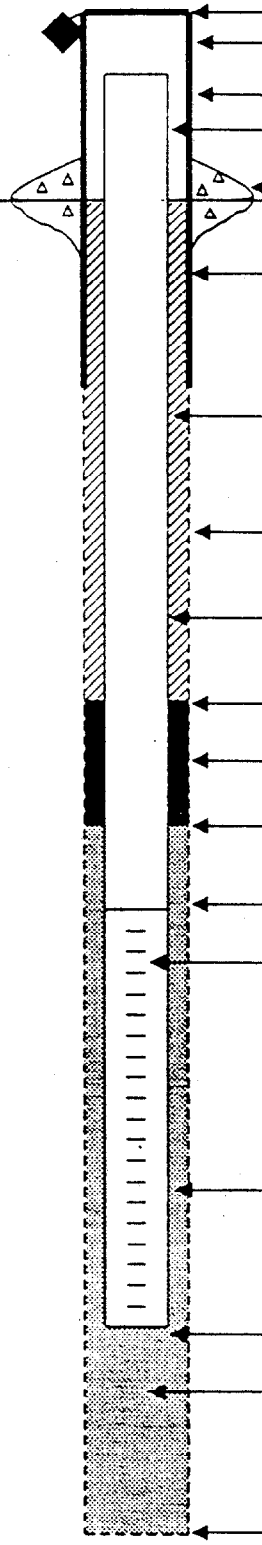
BORING NO.: FT-MW08-I

OVERBURDEN
MONITORING WELL SHEET

PROJECT: NWIRP Calverton
PROJECT NO.: 7398
ELEVATION:
FIELD GEOLOGIST: Teresa Sawyer

LOCATION: Calverton, NY
BORING: FT-MW08-I
DATE: 6/21/97

DRILLER: M. Mueller
DRILLING METHOD: MEG
DEVELOPMENT METHOD: Pump + surge



ELEVATION OF TOP OF SURFACE CASING:
ELEVATION OF TOP OF RISER PIPE:
STICK - UP TOP OF SURFACE CASING:
STICK - UP RISER PIPE: 2.5
TYPE OF SURFACE SEAL: Concrete
I.D. OF SURFACE CASING: 6"
TYPE OF SURFACE CASING: STEEL
RISER PIPE I.D. 4"
TYPE OF RISER PIPE: Schedule 40 PVC
BOREHOLE DIAMETER: 10.25"
TYPE OF BACKFILL: bentonite/cement grout
ELEVATION / DEPTH TOP OF SEAL: 119
TYPE OF SEAL: 1/4" bentonite pellet
DEPTH TOP OF SAND PACK: 21
ELEVATION / DEPTH TOP OF SCREEN: 123
TYPE OF SCREEN: ~~Stel~~ Schedule 40 PVC
SLOT SIZE x LENGTH: 0.020 10'
I.D. OF SCREEN: 4"
TYPE OF SAND PACK: # FILTER SAND
ELEVATION / DEPTH BOTTOM OF SCREEN: 133
ELEVATION / DEPTH BOTTOM OF SAND PACK: 135
TYPE OF BACKFILL BELOW OBSERVATION WELL: 1 # FILTER SAND
ELEVATION / DEPTH OF HOLE: 135

BORING LOG

PROJECT NAME: NWIRP- Colverton
PROJECT NUMBER: 1348
DRILLING COMPANY: MEG
WATER LEVEL DATA: ~5' BLS

BORING NUMBER: FT-MW08-I
DATE: 6/21/97
GEOLOGIST: TERESA SAWYER

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows/ 6" or RQD (%)	Sample Recovery/ Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS	Remarks	FID or PID Reading (ppm)
					LOOSE	BRN	FINE TO MED GRAINED SILTY			
							SAND			
					LOOSE	BRN ORG	" "			
							↓			
									▼ WATER	
10					LOOSE	TAN	FINE-MED GRAINED SAND			
							WET			
20										
30										
							↓			
							TD = 35'			
40										

*When rock coring enter rock brokeness.

CONVERTED TO WELL: X Yes ___ No;
WELL I.D.#: FT-MW08-I
REMARKS:

Signature(s): Teresa Sawyer

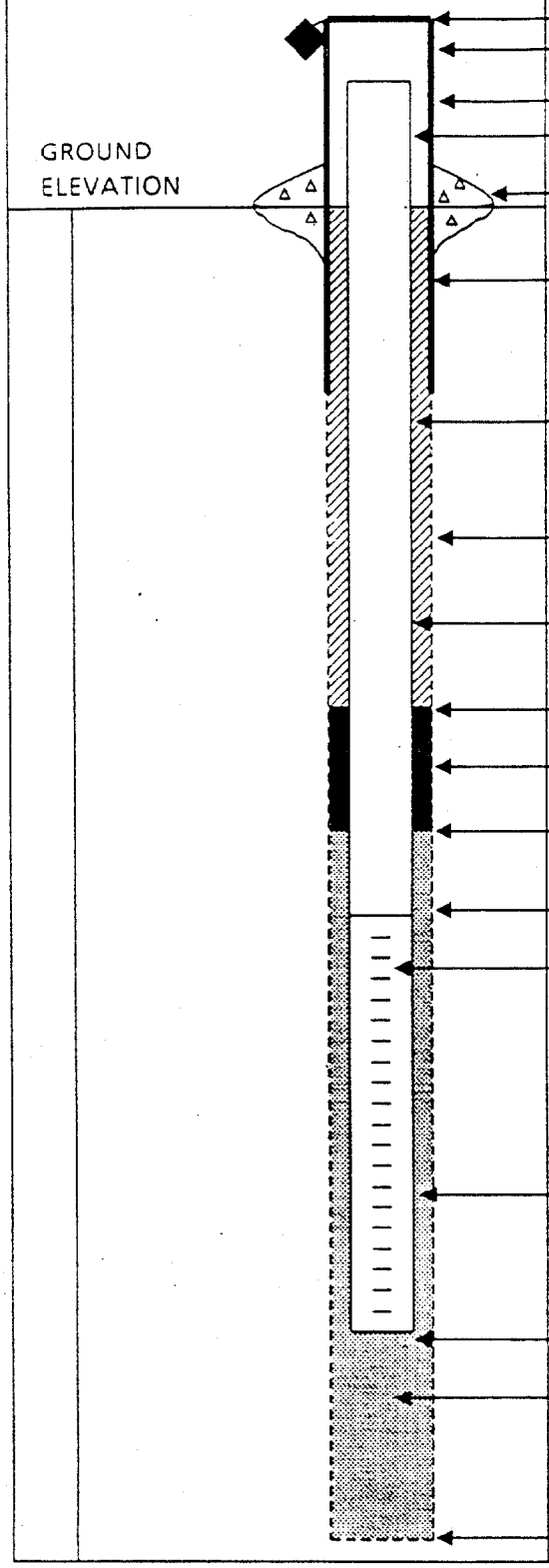
BORING NO.: FD-MW-7

OVERBURDEN
MONITORING WELL SHEET

PROJECT: NIOSP - Calverton
PROJECT NO.: 7398
ELEVATION:
FIELD GEOLOGIST: TERESA SPRAYER

LOCATION: Calverton, NY
BORING: FD-MW-7
DATE: 6/9/97

DRILLER: M. Mueller
DRILLING METHOD: HSA
DEVELOPMENT METHOD: Pump + Surge



ELEVATION OF TOP OF SURFACE CASING:
ELEVATION OF TOP OF RISER PIPE:
STICK - UP TOP OF SURFACE CASING:
STICK - UP RISER PIPE:
TYPE OF SURFACE SEAL: concrete
I.D. OF SURFACE CASING: 6"
TYPE OF SURFACE CASING: Steel
RISER PIPE I.D. 4"
TYPE OF RISER PIPE: Schedule 40 PVC
BOREHOLE DIAMETER: 10.25"
TYPE OF BACKFILL: grout
ELEVATION / DEPTH TOP OF SEAL: 16
TYPE OF SEAL: Bentonite Pellet
DEPTH TOP OF SAND PACK: 8
ELEVATION / DEPTH TOP OF SCREEN: 110
TYPE OF SCREEN: Schedule 40 PVC
SLOT SIZE x LENGTH: 0.020 10'
I.D. OF SCREEN: 4"
TYPE OF SAND PACK: #1 FILTER SAND
ELEVATION / DEPTH BOTTOM OF SCREEN: 120
ELEVATION / DEPTH BOTTOM OF SAND PACK: 121
TYPE OF BACKFILL BELOW OBSERVATION WELL: #1 FILTER SAND
ELEVATION / DEPTH OF HOLE: 121

BORING LOG

PROJECT NAME: NWIRP Calverton
PROJECT NUMBER: 7398
DRILLING COMPANY: MILLER ENV. GROUP
WATER LEVEL DATA:

BORING NUMBER: FD-MW07
DATE: 6/9/97
GEOLOGIST: TERESA SAWYER

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows/ 6" or RQD (%)	Sample Recovery/ Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS*	Remarks	FID or PID Reading (ppm)
NA					loose	yellow	Leaves on surface			0
							MED GRAINED SILTY			
							SAND			0
					loose	tan	MG SILTY SAND			0
5										
										0
										0
10										0
									▼ ≈12'	
										0
15										0
										0
20										0

*When rock coring enter rock brokeness.

CONVERTED TO WELL: X Yes ___ No;
WELL I.D.#: FD-MW07
REMARKS: CME 5T HSA RIG

Signature(s): Teresa Sawyer