United States Environmental Protection Agency

Region 7 Laboratory
25 Funston Road
Kansas City, KS 66115

Date: 11/6/2002

Subject: Transmittal of Sample Analysis Results for ASR #: 1659
Activity Number: JRMAWS
Activity Description: Atlantic Water Supply - RA/SE sampling

From: Michael Thomas, Associate Laboratory Director M. Thomas
Regional Laboratory, Environmental Services Division

To: Jim MacDonald
SUPR/ER&R

This is the sample analysis results transmittal for the above-referenced Analytical Services Request (ASR). The data contained in this transmittal have been approved by the Regional Laboratory. This transmittal contains all of the sample analysis results for this ASR. The Regional Laboratory should be notified within 14 days if any changes are needed to the contents of this report. If you have any questions, comments or data changes, please contact the Laboratory Customer Service Department at 913-551-5295.

cc: Analytical Data File

Site: Atlantic WS
ID #: Iad039954300
Break: 8.1
Other: A720 A
11-16-02

30291560

ASR Number: 1659

Summary of Activity Information
11/6/2002

Activity Leader: MacDonald, Jim **Org:** SUPR/ER&R **Phone:** (913) 551-7767
Activity Number: JRMAWS
Activity Desc: Atlantic Water Supply - RA/SE sampling
Location: Atlantic **State:** Iowa **Type:** Superfund/Oil
Superfund Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00
Purpose: Site characterization

Explanation of Codes, Units and Qualifiers used on this report.

Sample QC Codes: QC Codes identify the type of sample for quality control

__ = Field Sample
FB = Field Blank
FD = Field Duplicate

Units: Specific units in which results are reported.

Deg C = Degrees Celsius
SU = Standard Units (pH)
ug/kg = Micrograms per Kilogram
ug/L = Micrograms per Liter
umhos/c = Micromhos per Centimeter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
I = Invalid sample/data - Value not reported.
J = The associated numerical value is an estimated quantity.
U = Not detected at or above the reportable level shown.

Activity Number: JRMAWS **ASR Number:** 1659 **Sample Information Summary**

Activity Desc: Atlantic Water Supply - RA/SE sampling **11/6/2002**

Sample Numbe	QC Code	Matrix	Location	External Sample No.	Start Date	Start Time	End Date	End Time	Receipt Date
1 -	__	Soil	GP-12 (11-12')		09/16/2002	16:26			09/19/2002
2 -	__	Soil	GP-12 (21.5-22.5')		09/16/2002	17:01			09/19/2002
3 -	__	Soil	GP-2 (17-20' from 19-20')		09/17/2002	10:10			09/19/2002
4 -	__	Soil	GP-2 (27-30' from 28-29')		09/17/2002	12:30			09/19/2002
5 -	__	Soil	GP-1 (19-22' from 21-22')		09/17/2002	15:55			09/19/2002
6 -	__	Soil	GP-1 (8-12' from 9-10')		09/17/2002	15:18			09/19/2002
7 -	__	Soil	MW-2 at 9'		09/17/2002	17:30			09/19/2002
8 -	__	Soil	MW-1 at 19'		09/17/2002	9:45			09/19/2002
9 -	__	Soil	MW-1 at 27.5f		09/17/2002	10:45			09/19/2002
10 -	__	Soil	MW-2 at 19'		09/17/2002	18:00			09/19/2002
11 -	__	Soil	GP-9 (8-12' to 9-10')		09/18/2002	9:13			09/19/2002
12 -	__	Soil	GP-9 (20-23' to 21-22')		09/18/2002	9:59			09/19/2002
13 -	__	Soil	MW-2 (28')		09/18/2002	10:30			09/19/2002
14 -	__	Soil	MW-2 (36')		09/18/2002	11:15			09/19/2002
14 -	FD	Soil	MW-2 (36')/Field Duplicate of sample 14		09/18/2002	11:15			09/19/2002
15 -	__	Soil	GP-11 (8-12'; 9-10')		09/18/2002	13:24			09/20/2002
16 -	__	Soil	GP-11 (28-31' @ 30')		09/18/2002	15:40			09/20/2002
17 -	__	Soil	GP-10 (3-7'; 4-5')		09/19/2002	7:54			09/20/2002
18 -	__	Soil	GP-10 (28-31'; 28-29')		09/19/2002	9:38			09/20/2002
19 -	__	Soil	GP-8 (8-12'; 9-10')		09/19/2002	11:14			09/20/2002
20 -	__	Soil	GP-8 (32-35'; 32-33')		09/19/2002	13:58			09/20/2002
21 -	__	Soil	MW-3 @ 13'		09/19/2002	10:40			09/20/2002
22 -	__	Soil	MW-3 @ 28'		09/19/2002	12:39			09/20/2002
23 -	__	Soil	Edwards/RH Bank and Trust property/GP-7 (14-15')		10/07/2002	16:16			10/10/2002
24 -	__	Soil	Edwards/RH Bank and Trust property/GP-7 (33.5-34')		10/07/2002	18:30			10/10/2002
25 -	__	Soil	Edwards/RH Bank and Trust property/GP-6 (18-18.5')		10/08/2002	9:05			10/10/2002
26 -	__	Soil	Edwards/RH Bank and Trust property/GP-6 (33-34')		10/08/2002	10:55			10/10/2002
27 -	__	Soil	Edwards property/RH Bank and Trust property/GP-3 (20-21')		10/08/2002	13:29			10/10/2002
27 -	FD	Soil	Edwards property/GP-3 (20-21')		10/08/2002	13:29			10/10/2002
28 -	__	Soil	Edwards property/RH Bank and Trust property/GP-3 (34-35')		10/08/2002	14:55			10/10/2002
29 -	__	Soil	Edwards property/RH Bank and Trust property/GP-4 (22')		10/08/2002	16:34			10/10/2002
30 -	__	Soil	Edwards property/GP-4 (34.5-35')		10/08/2002	17:54			10/10/2002
31 -	__	Soil	Edwards property/RH Bank and Trust property/GP-5 (14-14.5')		10/09/2002	8:35			10/10/2002
32 -	__	Soil	Edwards property/GP-5 (35.5-36')		10/09/2002	10:57			10/10/2002
33 -	__	Soil	Green/ASC, Inc. property/GP-13 (7-8')		10/09/2002	12:25			10/10/2002
34 -	__	Soil	Green/ASC, Inc. property/GP-13 (34.5-35.5')		10/09/2002	15:20			10/10/2002
35 -	FB	Soil	5035 Soil VOA Trip Blank sample		10/09/2002				10/10/2002
41 -	FB	Soil	5035 soil VOA Trip Blank sample 1		09/18/2002	14:30			09/20/2002
42 -	FB	Soil	5035 soil VOA Trip Blank sample 2		09/19/2002				09/20/2002

101 -__	Water	Reischl property/MW-3 sample by trailer park	10/10/2002	9:00	10/10/2002
102 -__	Water	Glissman/Simmonds Properties LTD sample/MW-1 (B. King parking lot, N of Bldg. in corner)	10/10/2002	10:10	10/10/2002
103 -__	Water	Edwards/RH Bank and Trust property/MW-2 (Parking area)	10/10/2002	11:05	10/10/2002
103 -FD	Water	Edwards/RH Bank and Trust property/Field Duplicate of sample 103	10/10/2002	11:05	10/10/2002
104 -FB	Water	LDL VOA Field Blank sample	10/10/2002	9:10	10/10/2002
105 -FB	Water	LDL VOA Trip Blank sample	10/03/2002	7:50	10/10/2002

Analysis	Comments About Results For This Analysis

VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Samples —7, -10, -13, -14, and —14FD were analyzed by the medium level protocol due to high levels of tetrachloroethene and, therefore, the reporting limits are 125 times higher.

Tetrachloroethene was J-coded in sample -7 because it was quantitated below the level of the lowest calibration standard.

Acetone was J-coded in samples -1, -3, -6, and -21. Although the analyte in question has been positively identified in the samples, the quantitations are estimates (J-coded) due to the initial instrument calibration curve not meeting linearity specifications.

Results for 1,2-dibromo-3-chloropropane in samples -1, -2, -3, -4, -5, -6, -8, -9, -11, -12, -15, -16, -17, -18, and
-41FB were invalidated due to unacceptably low initial calibration relative response factors (RRFs).

Acetone was J-coded in samples -8 and -21. Although the analyte in question has been positively identified in the samples, the quantitations are estimates (J-coded) due to the daily instrument calibration not meeting accuracy specifications. The actual concentration for this analyte may be as much as 37% higher in sample -8 and 26% lower in sample -21 than the reported values.

Slight acetone contamination was found in the laboratory method blanks. Only samples containing this compound at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained this compound but at a level less than ten times the contamination in the blank have the result "U-coded" indicating the method reporting limit has been raised to the level found in the sample. Samples affected were: -2, -5, -11, -12, -14, -15, -16, -17, and -19.

VOCs in Water by GC/MS for Low Detection Limits

Slight acetone contamination was found in the laboratory method blank. Only samples containing this compound at a level greater than ten times the contamination level of the blank are reported without being qualified. All samples that contained this compound but at a level less than ten times the contamination in the blank have the result "U-coded" indicating the method reporting limit has been raised to the level found in the sample. Samples affected were: acetone in -101, -104FB, and -105FB.

2-butanone was J-coded in sample -105FB. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to the daily instrument calibration not meeting accuracy specifications. The actual concentration for this analyte may be as much as 55% lower than the reported value.

07,08,09,10

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print): James MacDonald

NAME OF SURVEY OR ACTIVITY: JRMAWS Atlantic Water Supply

DATE OF COLLECTION: 1,8,9,10 (DAY) 10 (MONTH) 02 (YEAR)

SHEET 1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
1659-23				1	4 ✓		X				
-24				1	4 ✓		X				
-25				1	4 ✓		X				
-26			(brrab)	1	6 ✓		X				①Note: Extra volume for MS/MSD.
-27				1	3 ✓		X				②Note: Collected extra volume and
-27-FD				1	3 ✓		X				split equally for duplicate...
-28				1	4 ✓		X				
-29				1	4 ✓		X				
-30				1	4 ✓		X				
-31				1	4 ✓		X				
-32				1	4 ✓		X				
-33				1	4 ✓		X				
-34				1	4 ✓		X				
-35-FB				1	4 ✓		X				
-101				1	4 ✓	X					
-102				1	4 ✓	X					
-103				1	4 ✓	X					Chr. Temp. Rec'd.
-103-FD				1	4 ✓	X					bet. 3-5°c
-104-FB				1	4 ✓	X					
-105-FB				1	4 ✓	X					
	[redacted]										
			10/10/02								Complete?

DESCRIPTION OF SHIPMENT

____ PIECE(S) CONSISTING OF ____ BOX(ES)

1 ICE CHEST(S): OTHER ____

MODE OF SHIPMENT

✓ COMMERCIAL CARRIER: FedEx

____ COURIER

____ SAMPLER CONVEYED

8353842291100 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

10/11/02

	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[redacted] ✓ SEALED ☐ UNSEALED	10/10/02	12:30	Nicole Robly 830A ✓ SEALED ☐ UNSEALED	Lab Analysis
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

7-EPA-9262(Revised 5/85)

16,17,18

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
James MacDonald	JRMAWS - Atlantic Water Supply	16-18 / 09 / 02	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (4 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
1659-1					1		X				
-2					1		X				
-3			(4 vials)		1		X				Note: extra volume for MS/MSD
-4					1		X				
-5					1		X				
-6					1		X				
-7					1		X				
-8					1		X				
-9					1		X				
-10					1		X				
-11					1		X				
-12					1		X				
-13					1		X				
-14					1		X				Note:) 1 unpreserved VOA each
14-FD					1		X				
41-FB					1		X				Trip Blank
	[redacted]										
			9/18/02								Not Complete — More to come later)

DESCRIPTION OF SHIPMENT

_____ PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

✓ COMMERCIAL CARRIER: Fed Ex

_____ COURIER

_____ SAMPLER CONVEYED

835384228955 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[redacted] ☒ SEALED ☐ UNSEALED	9/18/02	1455	[illegible] 9/18/02 ☑ SEALED ☐ UNSEALED	Analy
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

7-EPA-9262(Revised 5/85)

White -

18, 19

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
James MacDonald	JRMAWS-Athens Water Supply	18,19 / 09 / 02	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
1659-15					1		X				
-16					1		X				
-17					1		X				
-18					1		X				
-19					1		X				
-20					1		X				
-21					1		X				
-22					1		X				
-42-FB					1		X				Trip Blank

[redacted] ASK NOT [redacted] Complete

9/20/02

CLP CASE Complete

Not Complete. More to come, week of Oct. 7

Cr Temp Reqd bel 3-5°C

DESCRIPTION OF SHIPMENT

____ PIECE(S) CONSISTING OF ____ BOX(ES)

1 ICE CHEST(S); OTHER ____

MODE OF SHIPMENT

____ COMMERCIAL CARRIER: ____

____ COURIER

X SAMPLER CONVEYED

(SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[redacted] SEALED UNSEALED X	9/20/02	1340	Mark Robly SEALED UNSEALED X	Lab Analysis
RELINQUISHED BY SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	REASON FOR CHANGE OF CUSTODY

7-EPA-9262(Revised 5/85)

white —

Analysis / Analyte	Units	1-__	2-__	3-__	4-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	35 J	18 U	48 J	14 U
Benzene	ug/kg	10 U	12 U	12 U	14 U
Bromodichloromethane	ug/kg	10 U	12 U	12 U	14 U
Bromoform	ug/kg	10 U	12 U	12 U	14 U
Bromomethane	ug/kg	10 U	12 U	12 U	14 U
2-Butanone	ug/kg	10 U	12 U	12 U	14 U
Carbon Disulfide	ug/kg	10 U	12 U	12 U	14 U
Carbon Tetrachloride	ug/kg	10 U	12 U	12 U	14 U
Chlorobenzene	ug/kg	10 U	12 U	12 U	14 U
Chloroethane	ug/kg	10 U	12 U	12 U	14 U
Chloroform	ug/kg	10 U	12 U	12 U	14 U
Chloromethane	ug/kg	10 U	12 U	12 U	14 U
Cyclohexane	ug/kg	10 U	12 U	12 U	14 U
1,2-Dibromo-3-Chloropropane	ug/kg	N/A I	N/A I	N/A I	N/A I
Dibromochloromethane	ug/kg	10 U	12 U	12 U	14 U
1,2-Dibromoethane	ug/kg	10 U	12 U	12 U	14 U
1,2-Dichlorobenzene	ug/kg	10 U	12 U	12 U	14 U
1,3-Dichlorobenzene	ug/kg	10 U	12 U	12 U	14 U
1,4-Dichlorobenzene	ug/kg	10 U	12 U	12 U	14 U
Dichlorodifluoromethane	ug/kg	10 U	12 U	12 U	14 U
1,1-Dichloroethane	ug/kg	10 U	12 U	12 U	14 U
1,2-Dichloroethane	ug/kg	10 U	12 U	12 U	14 U
1,1-Dichloroethene	ug/kg	10 U	12 U	12 U	14 U
cis-1,2-Dichloroethene	ug/kg	10 U	12 U	12 U	14 U
trans-1,2-Dichloroethene	ug/kg	10 U	12 U	12 U	14 U
1,2-Dichloropropane	ug/kg	10 U	12 U	12 U	14 U
cis-1,3-Dichloropropene	ug/kg	10 U	12 U	12 U	14 U
trans-1,3-Dichloropropene	ug/kg	10 U	12 U	12 U	14 U
Ethyl Benzene	ug/kg	10 U	12 U	12 U	14 U
2-Hexanone	ug/kg	10 U	12 U	12 U	14 U
Isopropylbenzene	ug/kg	10 U	12 U	12 U	14 U
Methyl Acetate	ug/kg	10 U	12 U	12 U	14 U
Methyl tert-butyl ether	ug/kg	10 U	12 U	12 U	14 U
Methylcyclohexane	ug/kg	10 U	12 U	12 U	14 U
Methylene Chloride	ug/kg	10 U	12 U	12 U	14 U
4-Methyl-2-Pentanone	ug/kg	10 U	12 U	12 U	14 U
Styrene	ug/kg	10 U	12 U	12 U	14 U
1,1,2,2-Tetrachloroethane	ug/kg	10 U	12 U	12 U	14 U
Tetrachloroethene	ug/kg	10 U	12 U	12 U	14 U
Toluene	ug/kg	10 U	12 U	12 U	14 U
1,2,4-Trichlorobenzene	ug/kg	10 U	12 U	12 U	14 U
1,1,1-Trichloroethane	ug/kg	10 U	12 U	12 U	14 U
1,1,2-Trichloroethane	ug/kg	10 U	12 U	12 U	14 U
Trichloroethene	ug/kg	10 U	12 U	12 U	14 U
Trichlorofluoromethane	ug/kg	10 U	12 U	12 U	14 U
1,1,2-Trichlorotrifluoroethane	ug/kg	10 U	12 U	12 U	14 U
Vinyl Chloride	ug/kg	10 U	12 U	12 U	14 U
total Xylene	ug/kg	10 U	12 U	12 U	14 U

Analysis / Analyte	Units	5-__	6-__	7-__	8-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	23 U	120 J	1700 U	54 J
Benzene	ug/kg	11 U	13 U	1700 U	11 U
Bromodichloromethane	ug/kg	11 U	13 U	1700 U	11 U
Bromoform	ug/kg	11 U	13 U	1700 U	11 U
Bromomethane	ug/kg	11 U	13 U	1700 U	11 U
2-Butanone	ug/kg	11 U	15	1700 U	11 U
Carbon Disulfide	ug/kg	11 U	13 U	1700 U	11 U
Carbon Tetrachloride	ug/kg	11 U	13 U	1700 U	11 U
Chlorobenzene	ug/kg	11 U	13 U	1700 U	11 U
Chloroethane	ug/kg	11 U	13 U	1700 U	11 U
Chloroform	ug/kg	11 U	13 U	1700 U	11 U
Chloromethane	ug/kg	11 U	13 U	1700 U	11 U
Cyclohexane	ug/kg	11 U	13 U	1700 U	11 U
1,2-Dibromo-3-Chloropropane	ug/kg	N/A I	N/A I	1700 U	N/A I
Dibromochloromethane	ug/kg	11 U	13 U	1700 U	11 U
1,2-Dibromoethane	ug/kg	11 U	13 U	1700 U	11 U
1,2-Dichlorobenzene	ug/kg	11 U	13 U	1700 U	11 U
1,3-Dichlorobenzene	ug/kg	11 U	13 U	1700 U	11 U
1,4-Dichlorobenzene	ug/kg	11 U	13 U	1700 U	11 U
Dichlorodifluoromethane	ug/kg	11 U	13 U	1700 U	11 U
1,1-Dichloroethane	ug/kg	11 U	13 U	1700 U	11 U
1,2-Dichloroethane	ug/kg	11 U	13 U	1700 U	11 U
1,1-Dichloroethene	ug/kg	11 U	13 U	1700 U	11 U
cis-1,2-Dichloroethene	ug/kg	11 U	13 U	1700 U	11 U
trans-1,2-Dichloroethene	ug/kg	11 U	13 U	1700 U	11 U
1,2-Dichloropropane	ug/kg	11 U	13 U	1700 U	11 U
cis-1,3-Dichloropropene	ug/kg	11 U	13 U	1700 U	11 U
trans-1,3-Dichloropropene	ug/kg	11 U	13 U	1700 U	11 U
Ethyl Benzene	ug/kg	11 U	13 U	1700 U	11 U
2-Hexanone	ug/kg	11 U	13 U	1700 U	11 U
Isopropylbenzene	ug/kg	11 U	13 U	1700 U	11 U
Methyl Acetate	ug/kg	11 U	13 U	1700 U	11 U
Methyl tert-butyl ether	ug/kg	11 U	13 U	1700 U	11 U
Methylcyclohexane	ug/kg	11 U	13 U	1700 U	11 U
Methylene Chloride	ug/kg	11 U	13 U	1700 U	11 U
4-Methyl-2-Pentanone	ug/kg	11 U	13 U	1700 U	11 U
Styrene	ug/kg	11 U	13 U	1700 U	11 U
1,1,2,2-Tetrachloroethane	ug/kg	11 U	13 U	1700 U	11 U
Tetrachloroethene	ug/kg	37	23	930 J	11 U
Toluene	ug/kg	11 U	13 U	1700 U	11 U
1,2,4-Trichlorobenzene	ug/kg	11 U	13 U	1700 U	11 U
1,1,1-Trichloroethane	ug/kg	11 U	13 U	1700 U	11 U
1,1,2-Trichloroethane	ug/kg	11 U	13 U	1700 U	11 U
Trichloroethene	ug/kg	11 U	13 U	1700 U	11 U
Trichlorofluoromethane	ug/kg	11 U	13 U	1700 U	11 U
1,1,2-Trichlorotrifluoroethane	ug/kg	11 U	13 U	1700 U	11 U
Vinyl Chloride	ug/kg	11 U	13 U	1700 U	11 U
total Xylene	ug/kg	11 U	13 U	1700 U	11 U

Analysis / Analyte	Units	9-__	10-__	11-__	12-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	12 U	1500 U	18 U	26 U
Benzene	ug/kg	12 U	1500 U	11 U	13 U
Bromodichloromethane	ug/kg	12 U	1500 U	11 U	13 U
Bromoform	ug/kg	12 U	1500 U	11 U	13 U
Bromomethane	ug/kg	12 U	1500 U	11 U	13 U
2-Butanone	ug/kg	12 U	1500 U	11 U	13 U
Carbon Disulfide	ug/kg	12 U	1500 U	11 U	13 U
Carbon Tetrachloride	ug/kg	12 U	1500 U	11 U	13 U
Chlorobenzene	ug/kg	12 U	1500 U	11 U	13 U
Chloroethane	ug/kg	12 U	1500 U	11 U	13 U
Chloroform	ug/kg	12 U	1500 U	11 U	13 U
Chloromethane	ug/kg	12 U	1500 U	11 U	13 U
Cyclohexane	ug/kg	12 U	1500 U	11 U	13 U
1,2-Dibromo-3-Chloropropane	ug/kg	N/A I	1500 U	N/A I	N/A I
Dibromochloromethane	ug/kg	12 U	1500 U	11 U	13 U
1,2-Dibromoethane	ug/kg	12 U	1500 U	11 U	13 U
1,2-Dichlorobenzene	ug/kg	12 U	1500 U	11 U	13 U
1,3-Dichlorobenzene	ug/kg	12 U	1500 U	11 U	13 U
1,4-Dichlorobenzene	ug/kg	12 U	1500 U	11 U	13 U
Dichlorodifluoromethane	ug/kg	12 U	1500 U	11 U	13 U
1,1-Dichloroethane	ug/kg	12 U	1500 U	11 U	13 U
1,2-Dichloroethane	ug/kg	12 U	1500 U	11 U	13 U
1,1-Dichloroethene	ug/kg	12 U	1500 U	11 U	13 U
cis-1,2-Dichloroethene	ug/kg	12 U	1500 U	11 U	13 U
trans-1,2-Dichloroethene	ug/kg	12 U	1500 U	11 U	13 U
1,2-Dichloropropane	ug/kg	12 U	1500 U	11 U	13 U
cis-1,3-Dichloropropene	ug/kg	12 U	1500 U	11 U	13 U
trans-1,3-Dichloropropene	ug/kg	12 U	1500 U	11 U	13 U
Ethyl Benzene	ug/kg	12 U	1500 U	11 U	13 U
2-Hexanone	ug/kg	12 U	1500 U	11 U	13 U
Isopropylbenzene	ug/kg	12 U	1500 U	11 U	13 U
Methyl Acetate	ug/kg	12 U	1500 U	11 U	13 U
Methyl tert-butyl ether	ug/kg	12 U	1500 U	11 U	13 U
Methylcyclohexane	ug/kg	12 U	1500 U	11 U	13 U
Methylene Chloride	ug/kg	12 U	1500 U	11 U	13 U
4-Methyl-2-Pentanone	ug/kg	12 U	1500 U	11 U	13 U
Styrene	ug/kg	12 U	1500 U	11 U	13 U
1,1,2,2-Tetrachloroethane	ug/kg	12 U	1500 U	11 U	13 U
Tetrachloroethene	ug/kg	12 U	4600	11 U	13 U
Toluene	ug/kg	12 U	1500 U	11 U	13 U
1,2,4-Trichlorobenzene	ug/kg	12 U	1500 U	11 U	13 U
1,1,1-Trichloroethane	ug/kg	12 U	1500 U	11 U	13 U
1,1,2-Trichloroethane	ug/kg	12 U	1500 U	11 U	13 U
Trichloroethene	ug/kg	12 U	1500 U	11 U	13 U
Trichlorofluoromethane	ug/kg	12 U	1500 U	11 U	13 U
1,1,2-Trichlorotrifluoroethane	ug/kg	12 U	1500 U	11 U	13 U
Vinyl Chloride	ug/kg	12 U	1500 U	11 U	13 U
total Xylene	ug/kg	12 U	1500 U	11 U	13 U

Analysis / Analyte	Units	13-__	14-__	14-FD	15-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	1500 U	1800 U	1500 U	28 U
Benzene	ug/kg	1500 U	1500 U	1500 U	13 U
Bromodichloromethane	ug/kg	1500 U	1500 U	1500 U	13 U
Bromoform	ug/kg	1500 U	1500 U	1500 U	13 U
Bromomethane	ug/kg	1500 U	1500 U	1500 U	13 U
2-Butanone	ug/kg	1500 U	1500 U	1500 U	13 U
Carbon Disulfide	ug/kg	1500 U	1500 U	1500 U	13 U
Carbon Tetrachloride	ug/kg	1500 U	1500 U	1500 U	13 U
Chlorobenzene	ug/kg	1500 U	1500 U	1500 U	13 U
Chloroethane	ug/kg	1500 U	1500 U	1500 U	13 U
Chloroform	ug/kg	1500 U	1500 U	1500 U	13 U
Chloromethane	ug/kg	1500 U	1500 U	1500 U	13 U
Cyclohexane	ug/kg	1500 U	1500 U	1500 U	13 U
1,2-Dibromo-3-Chloropropane	ug/kg	1500 U	1500 U	1500 U	N/A I
Dibromochloromethane	ug/kg	1500 U	1500 U	1500 U	13 U
1,2-Dibromoethane	ug/kg	1500 U	1500 U	1500 U	13 U
1,2-Dichlorobenzene	ug/kg	1500 U	1500 U	1500 U	13 U
1,3-Dichlorobenzene	ug/kg	1500 U	1500 U	1500 U	13 U
1,4-Dichlorobenzene	ug/kg	1500 U	1500 U	1500 U	13 U
Dichlorodifluoromethane	ug/kg	1500 U	1500 U	1500 U	13 U
1,1-Dichloroethane	ug/kg	1500 U	1500 U	1500 U	13 U
1,2-Dichloroethane	ug/kg	1500 U	1500 U	1500 U	13 U
1,1-Dichloroethene	ug/kg	1500 U	1500 U	1500 U	13 U
cis-1,2-Dichloroethene	*ug/kg*	*1500 U*	*1500 U*	*1500 U*	*13 U*
trans-1,2-Dichloroethene	ug/kg	1500 U	1500 U	1500 U	13 U
1,2-Dichloropropane	ug/kg	1500 U	1500 U	1500 U	13 U
cis-1,3-Dichloropropene	ug/kg	1500 U	1500 U	1500 U	13 U
trans-1,3-Dichloropropene	ug/kg	1500 U	1500 U	1500 U	13 U
Ethyl Benzene	ug/kg	1500 U	1500 U	1500 U	13 U
2-Hexanone	ug/kg	1500 U	1500 U	1500 U	13 U
Isopropylbenzene	ug/kg	1500 U	1500 U	1500 U	13 U
Methyl Acetate	ug/kg	1500 U	1500 U	1500 U	13 U
Methyl tert-butyl ether	ug/kg	1500 U	1500 U	1500 U	13 U
Methylcyclohexane	ug/kg	1500 U	1500 U	1500 U	13 U
Methylene Chloride	ug/kg	1500 U	1500 U	1500 U	13 U
4-Methyl-2-Pentanone	ug/kg	1500 U	1500 U	1500 U	13 U
Styrene	ug/kg	1500 U	1500 U	1500 U	13 U
1,1,2,2-Tetrachloroethane	ug/kg	1500 U	1500 U	1500 U	13 U
Tetrachloroethene	ug/kg	5100	5000	5200	13 U
Toluene	ug/kg	1500 U	1500 U	1500 U	13 U
1,2,4-Trichlorobenzene	ug/kg	1500 U	1500 U	1500 U	13 U
1,1,1-Trichloroethane	ug/kg	1500 U	1500 U	1500 U	13 U
1,1,2-Trichloroethane	ug/kg	1500 U	1500 U	1500 U	13 U
Trichloroethene	ug/kg	1500 U	1500 U	1500 U	13 U
Trichlorofluoromethane	ug/kg	1500 U	1500 U	1500 U	13 U
1,1,2-Trichlorotrifluoroethane	ug/kg	1500 U	1500 U	1500 U	13 U
Vinyl Chloride	ug/kg	1500 U	1500 U	1500 U	13 U
total Xylene	ug/kg	1500 U	1500 U	1500 U	13 U

Analysis / Analyte	Units	16-__	17-__	18-__	19-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	11 U	24 U	11 U	12 U
Benzene	ug/kg	10 U	13 U	11 U	11 U
Bromodichloromethane	ug/kg	10 U	13 U	11 U	11 U
Bromoform	ug/kg	10 U	13 U	11 U	11 U
Bromomethane	ug/kg	10 U	13 U	11 U	11 U
2-Butanone	ug/kg	10 U	13 U	11 U	11 U
Carbon Disulfide	ug/kg	10 U	13 U	11 U	11 U
Carbon Tetrachloride	ug/kg	10 U	13 U	11 U	11 U
Chlorobenzene	ug/kg	10 U	13 U	11 U	11 U
Chloroethane	ug/kg	10 U	13 U	11 U	11 U
Chloroform	ug/kg	10 U	13 U	11 U	11 U
Chloromethane	ug/kg	10 U	13 U	11 U	11 U
Cyclohexane	ug/kg	10 U	13 U	11 U	11 U
1,2-Dibromo-3-Chloropropane	ug/kg	N/A I	N/A I	N/A I	11 U
Dibromochloromethane	ug/kg	10 U	13 U	11 U	11 U
1,2-Dibromoethane	ug/kg	10 U	13 U	11 U	11 U
1,2-Dichlorobenzene	ug/kg	10 U	13 U	11 U	11 U
1,3-Dichlorobenzene	ug/kg	10 U	13 U	11 U	11 U
1,4-Dichlorobenzene	ug/kg	10 U	13 U	11 U	11 U
Dichlorodifluoromethane	ug/kg	10 U	13 U	11 U	11 U
1,1-Dichloroethane	ug/kg	10 U	13 U	11 U	11 U
1,2-Dichloroethane	ug/kg	10 U	13 U	11 U	11 U
1,1-Dichloroethene	ug/kg	10 U	13 U	11 U	11 U
cis-1,2-Dichloroethene	ug/kg	10 U	13 U	11 U	11 U
trans-1,2-Dichloroethene	ug/kg	10 U	13 U	11 U	11 U
1,2-Dichloropropane	ug/kg	10 U	13 U	11 U	11 U
cis-1,3-Dichloropropene	ug/kg	10 U	13 U	11 U	11 U
trans-1,3-Dichloropropene	ug/kg	10 U	13 U	11 U	11 U
Ethyl Benzene	ug/kg	10 U	13 U	11 U	11 U
2-Hexanone	ug/kg	10 U	13 U	11 U	11 U
Isopropylbenzene	ug/kg	10 U	13 U	11 U	11 U
Methyl Acetate	ug/kg	10 U	13 U	11 U	11 U
Methyl tert-butyl ether	ug/kg	10 U	13 U	11 U	11 U
Methylcyclohexane	ug/kg	10 U	13 U	11 U	11 U
Methylene Chloride	ug/kg	10 U	13 U	11 U	11 U
4-Methyl-2-Pentanone	ug/kg	10 U	13 U	11 U	11 U
Styrene	ug/kg	10 U	13 U	11 U	11 U
1,1,2,2-Tetrachloroethane	ug/kg	10 U	13 U	11 U	11 U
Tetrachloroethene	ug/kg	10 U	13 U	11 U	11 U
Toluene	ug/kg	10 U	13 U	11 U	11 U
1,2,4-Trichlorobenzene	ug/kg	10 U	13 U	11 U	11 U
1,1,1-Trichloroethane	ug/kg	10 U	13 U	11 U	11 U
1,1,2-Trichloroethane	ug/kg	10 U	13 U	11 U	11 U
Trichloroethene	ug/kg	10 U	13 U	11 U	11 U
Trichlorofluoromethane	ug/kg	10 U	13 U	11 U	11 U
1,1,2-Trichlorotrifluoroethane	ug/kg	10 U	13 U	11 U	11 U
Vinyl Chloride	ug/kg	10 U	13 U	11 U	11 U
total Xylene	ug/kg	10 U	13 U	11 U	11 U

Analysis / Analyte	Units	20-__	21-__	22-__	23-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	11 U	25 J	14 U	81
Benzene	ug/kg	11 U	12 U	14 U	13 U
Bromodichloromethane	ug/kg	11 U	12 U	14 U	13 U
Bromoform	ug/kg	11 U	12 U	14 U	13 U
Bromomethane	ug/kg	11 U	12 U	14 U	13 U
2-Butanone	ug/kg	11 U	12 U	14 U	15
Carbon Disulfide	ug/kg	11 U	12 U	14 U	13 U
Carbon Tetrachloride	ug/kg	11 U	12 U	14 U	13 U
Chlorobenzene	ug/kg	11 U	12 U	14 U	13 U
Chloroethane	ug/kg	11 U	12 U	14 U	13 U
Chloroform	ug/kg	11 U	12 U	14 U	13 U
Chloromethane	ug/kg	11 U	12 U	14 U	13 U
Cyclohexane	ug/kg	11 U	12 U	14 U	13 U
1,2-Dibromo-3-Chloropropane	ug/kg	11 U	12 U	14 U	13 U
Dibromochloromethane	ug/kg	11 U	12 U	14 U	13 U
1,2-Dibromoethane	ug/kg	11 U	12 U	14 U	13 U
1,2-Dichlorobenzene	ug/kg	11 U	12 U	14 U	13 U
1,3-Dichlorobenzene	ug/kg	11 U	12 U	14 U	13 U
1,4-Dichlorobenzene	ug/kg	11 U	12 U	14 U	13 U
Dichlorodifluoromethane	ug/kg	11 U	12 U	14 U	13 U
1,1-Dichloroethane	ug/kg	11 U	12 U	14 U	13 U
1,2-Dichloroethane	ug/kg	11 U	12 U	14 U	13 U
1,1-Dichloroethene	ug/kg	11 U	12 U	14 U	13 U
cis-1,2-Dichloroethene	ug/kg	11 U	12 U	14 U	13 U
trans-1,2-Dichloroethene	ug/kg	11 U	12 U	14 U	13 U
1,2-Dichloropropane	ug/kg	11 U	12 U	14 U	13 U
cis-1,3-Dichloropropene	ug/kg	11 U	12 U	14 U	13 U
trans-1,3-Dichloropropene	ug/kg	11 U	12 U	14 U	13 U
Ethyl Benzene	ug/kg	11 U	12 U	14 U	13 U
2-Hexanone	ug/kg	11 U	12 U	14 U	13 U
Isopropylbenzene	ug/kg	11 U	12 U	14 U	13 U
Methyl Acetate	ug/kg	11 U	12 U	14 U	13 U
Methyl tert-butyl ether	ug/kg	11 U	12 U	14 U	13 U
Methylcyclohexane	ug/kg	11 U	12 U	14 U	13 U
Methylene Chloride	ug/kg	11 U	12 U	14 U	13 U
4-Methyl-2-Pentanone	ug/kg	11 U	12 U	14 U	13 U
Styrene	ug/kg	11 U	12 U	14 U	13 U
1,1,2,2-Tetrachloroethane	ug/kg	11 U	12 U	14 U	13 U
Tetrachloroethene	ug/kg	11 U	12 U	14 U	13 U
Toluene	ug/kg	11 U	12 U	14 U	13 U
1,2,4-Trichlorobenzene	ug/kg	11 U	12 U	14 U	13 U
1,1,1-Trichloroethane	ug/kg	11 U	12 U	14 U	13 U
1,1,2-Trichloroethane	ug/kg	11 U	12 U	14 U	13 U
Trichloroethene	ug/kg	11 U	12 U	14 U	13 U
Trichlorofluoromethane	ug/kg	11 U	12 U	14 U	13 U
1,1,2-Trichlorotrifluoroethane	ug/kg	11 U	12 U	14 U	13 U
Vinyl Chloride	ug/kg	11 U	12 U	14 U	13 U
total Xylene	ug/kg	11 U	12 U	14 U	13 U

Analysis / Analyte	Units	24-__	25-__	26-__	27-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	11 U	94	51	35
Benzene	ug/kg	11 U	14 U	10 U	11 U
Bromodichloromethane	ug/kg	11 U	14 U	10 U	11 U
Bromoform	ug/kg	11 U	14 U	10 U	11 U
Bromomethane	ug/kg	11 U	14 U	10 U	11 U
2-Butanone	ug/kg	11 U	17	10 U	11 U
Carbon Disulfide	ug/kg	11 U	14 U	10 U	11 U
Carbon Tetrachloride	ug/kg	11 U	14 U	10 U	11 U
Chlorobenzene	ug/kg	11 U	14 U	10 U	11 U
Chloroethane	ug/kg	11 U	14 U	10 U	11 U
Chloroform	ug/kg	11 U	14 U	10 U	11 U
Chloromethane	ug/kg	11 U	14 U	10 U	11 U
Cyclohexane	ug/kg	11 U	14 U	10 U	11 U
1,2-Dibromo-3-Chloropropane	ug/kg	11 U	14 U	10 U	11 U
Dibromochloromethane	ug/kg	11 U	14 U	10 U	11 U
1,2-Dibromoethane	ug/kg	11 U	14 U	10 U	11 U
1,2-Dichlorobenzene	ug/kg	11 U	14 U	10 U	11 U
1,3-Dichlorobenzene	ug/kg	11 U	14 U	10 U	11 U
1,4-Dichlorobenzene	ug/kg	11 U	14 U	10 U	11 U
Dichlorodifluoromethane	ug/kg	11 U	14 U	10 U	11 U
1,1-Dichloroethane	ug/kg	11 U	14 U	10 U	11 U
1,2-Dichloroethane	ug/kg	11 U	14 U	10 U	11 U
1,1-Dichloroethene	ug/kg	11 U	14 U	10 U	11 U
cis-1,2-Dichloroethene	ug/kg	11 U	14 U	10 U	11 U
trans-1,2-Dichloroethene	ug/kg	11 U	14 U	10 U	11 U
1,2-Dichloropropane	ug/kg	11 U	14 U	10 U	11 U
cis-1,3-Dichloropropene	ug/kg	11 U	14 U	10 U	11 U
trans-1,3-Dichloropropene	ug/kg	11 U	14 U	10 U	11 U
Ethyl Benzene	ug/kg	11 U	14 U	10 U	11 U
2-Hexanone	ug/kg	11 U	14 U	10 U	11 U
Isopropylbenzene	ug/kg	11 U	14 U	10 U	11 U
Methyl Acetate	ug/kg	11 U	14 U	10 U	11 U
Methyl tert-butyl ether	ug/kg	11 U	14 U	10 U	11 U
Methylcyclohexane	ug/kg	11 U	14 U	10 U	11 U
Methylene Chloride	ug/kg	11 U	14 U	10 U	11 U
4-Methyl-2-Pentanone	ug/kg	11 U	14 U	10 U	11 U
Styrene	ug/kg	11 U	14 U	10 U	11 U
1,1,2,2-Tetrachloroethane	ug/kg	11 U	14 U	10 U	11 U
Tetrachloroethene	ug/kg	11 U	14 U	10 U	11 U
Toluene	ug/kg	11 U	14 U	10 U	11 U
1,2,4-Trichlorobenzene	ug/kg	11 U	14 U	10 U	11 U
1,1,1-Trichloroethane	ug/kg	11 U	14 U	10 U	11 U
1,1,2-Trichloroethane	ug/kg	11 U	14 U	10 U	11 U
Trichloroethene	ug/kg	11 U	14 U	10 U	11 U
Trichlorofluoromethane	ug/kg	11 U	14 U	10 U	11 U
1,1,2-Trichlorotrifluoroethane	ug/kg	11 U	14 U	10 U	11 U
Vinyl Chloride	ug/kg	11 U	14 U	10 U	11 U
total Xylene	ug/kg	11 U	14 U	10 U	11 U

Analysis / Analyte	Units	27-FD	28-__	29-__	30-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	60	16	140	51
Benzene	ug/kg	12 U	10 U	14 U	12 U
Bromodichloromethane	ug/kg	12 U	10 U	14 U	12 U
Bromoform	ug/kg	12 U	10 U	14 U	12 U
Bromomethane	ug/kg	12 U	10 U	14 U	12 U
2-Butanone	ug/kg	12 U	10 U	19	12 U
Carbon Disulfide	ug/kg	12 U	10 U	14 U	12 U
Carbon Tetrachloride	ug/kg	12 U	10 U	14 U	12 U
Chlorobenzene	ug/kg	12 U	10 U	14 U	12 U
Chloroethane	ug/kg	12 U	10 U	14 U	12 U
Chloroform	ug/kg	12 U	10 U	14 U	12 U
Chloromethane	ug/kg	12 U	10 U	14 U	12 U
Cyclohexane	ug/kg	12 U	10 U	14 U	12 U
1,2-Dibromo-3-Chloropropane	ug/kg	12 U	10 U	14 U	12 U
Dibromochloromethane	ug/kg	12 U	10 U	14 U	12 U
1,2-Dibromoethane	ug/kg	12 U	10 U	14 U	12 U
1,2-Dichlorobenzene	ug/kg	12 U	10 U	14 U	12 U
1,3-Dichlorobenzene	ug/kg	12 U	10 U	14 U	12 U
1,4-Dichlorobenzene	ug/kg	12 U	10 U	14 U	12 U
Dichlorodifluoromethane	ug/kg	12 U	10 U	14 U	12 U
1,1-Dichloroethane	ug/kg	12 U	10 U	14 U	12 U
1,2-Dichloroethane	ug/kg	12 U	10 U	14 U	12 U
1,1-Dichloroethene	ug/kg	12 U	10 U	14 U	12 U
cis-1,2-Dichloroethene	ug/kg	12 U	10 U	14 U	12 U
trans-1,2-Dichloroethene	ug/kg	12 U	10 U	14 U	12 U
1,2-Dichloropropane	ug/kg	12 U	10 U	14 U	12 U
cis-1,3-Dichloropropene	ug/kg	12 U	10 U	14 U	12 U
trans-1,3-Dichloropropene	ug/kg	12 U	10 U	14 U	12 U
Ethyl Benzene	ug/kg	12 U	10 U	14 U	12 U
2-Hexanone	ug/kg	12 U	10 U	14 U	12 U
Isopropylbenzene	ug/kg	12 U	10 U	14 U	12 U
Methyl Acetate	ug/kg	12 U	10 U	14 U	12 U
Methyl tert-butyl ether	ug/kg	12 U	10 U	14 U	12 U
Methylcyclohexane	ug/kg	12 U	10 U	14 U	12 U
Methylene Chloride	ug/kg	12 U	10 U	14 U	12 U
4-Methyl-2-Pentanone	ug/kg	12 U	10 U	14 U	12 U
Styrene	ug/kg	12 U	10 U	14 U	12 U
1,1,2,2-Tetrachloroethane	ug/kg	12 U	10 U	14 U	12 U
Tetrachloroethene	ug/kg	12 U	10 U	14 U	32
Toluene	ug/kg	12 U	10 U	14 U	12 U
1,2,4-Trichlorobenzene	ug/kg	12 U	10 U	14 U	12 U
1,1,1-Trichloroethane	ug/kg	12 U	10 U	14 U	12 U
1,1,2-Trichloroethane	ug/kg	12 U	10 U	14 U	12 U
Trichloroethene	ug/kg	12 U	10 U	14 U	12 U
Trichlorofluoromethane	ug/kg	12 U	10 U	14 U	12 U
1,1,2-Trichlorotrifluoroethane	ug/kg	12 U	10 U	14 U	12 U
Vinyl Chloride	ug/kg	12 U	10 U	14 U	12 U
total Xylene	ug/kg	12 U	10 U	14 U	12 U

Analysis / Analyte	Units	31-__	32-__	33-__	34-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	30	13	35	32
Benzene	ug/kg	13 U	11 U	14 U	11 U
Bromodichloromethane	ug/kg	13 U	11 U	14 U	11 U
Bromoform	ug/kg	13 U	11 U	14 U	11 U
Bromomethane	ug/kg	13 U	11 U	14 U	11 U
2-Butanone	ug/kg	13 U	11 U	14 U	11 U
Carbon Disulfide	ug/kg	13 U	11 U	14 U	11 U
Carbon Tetrachloride	ug/kg	13 U	11 U	14 U	11 U
Chlorobenzene	ug/kg	13 U	11 U	14 U	11 U
Chloroethane	ug/kg	13 U	11 U	14 U	11 U
Chloroform	ug/kg	13 U	11 U	14 U	11 U
Chloromethane	ug/kg	13 U	11 U	14 U	11 U
Cyclohexane	ug/kg	13 U	11 U	14 U	11 U
1,2-Dibromo-3-Chloropropane	ug/kg	13 U	11 U	14 U	11 U
Dibromochloromethane	ug/kg	13 U	11 U	14 U	11 U
1,2-Dibromoethane	ug/kg	13 U	11 U	14 U	11 U
1,2-Dichlorobenzene	ug/kg	13 U	11 U	14 U	11 U
1,3-Dichlorobenzene	ug/kg	13 U	11 U	14 U	11 U
1,4-Dichlorobenzene	ug/kg	13 U	11 U	14 U	11 U
Dichlorodifluoromethane	ug/kg	13 U	11 U	14 U	11 U
1,1-Dichloroethane	ug/kg	13 U	11 U	14 U	11 U
1,2-Dichloroethane	ug/kg	13 U	11 U	14 U	11 U
1,1-Dichloroethene	ug/kg	13 U	11 U	14 U	11 U
cis-1,2-Dichloroethene	ug/kg	13 U	11 U	14 U	11 U
trans-1,2-Dichloroethene	ug/kg	13 U	11 U	14 U	11 U
1,2-Dichloropropane	ug/kg	13 U	11 U	14 U	11 U
cis-1,3-Dichloropropene	ug/kg	13 U	11 U	14 U	11 U
trans-1,3-Dichloropropene	ug/kg	13 U	11 U	14 U	11 U
Ethyl Benzene	ug/kg	13 U	11 U	14 U	11 U
2-Hexanone	ug/kg	13 U	11 U	14 U	11 U
Isopropylbenzene	ug/kg	13 U	11 U	14 U	11 U
Methyl Acetate	ug/kg	13 U	11 U	14 U	11 U
Methyl tert-butyl ether	ug/kg	13 U	11 U	14 U	11 U
Methylcyclohexane	ug/kg	13 U	11 U	14 U	11 U
Methylene Chloride	ug/kg	13 U	11 U	14 U	11 U
4-Methyl-2-Pentanone	ug/kg	13 U	11 U	14 U	11 U
Styrene	ug/kg	13 U	11 U	14 U	11 U
1,1,2,2-Tetrachloroethane	ug/kg	13 U	11 U	14 U	11 U
Tetrachloroethene	ug/kg	13 U	11 U	14 U	11 U
Toluene	ug/kg	13 U	11 U	14 U	11 U
1,2,4-Trichlorobenzene	ug/kg	13 U	11 U	14 U	11 U
1,1,1-Trichloroethane	ug/kg	13 U	11 U	14 U	11 U
1,1,2-Trichloroethane	ug/kg	13 U	11 U	14 U	11 U
Trichloroethene	ug/kg	13 U	11 U	14 U	11 U
Trichlorofluoromethane	ug/kg	13 U	11 U	14 U	11 U
1,1,2-Trichlorotrifluoroethane	ug/kg	13 U	11 U	14 U	11 U
Vinyl Chloride	ug/kg	13 U	11 U	14 U	11 U
total Xylene	ug/kg	13 U	11 U	14 U	11 U

Analysis / Analyte	Units	35-FB	41-FB	42-FB	101-__
VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	11 U	10 U	10 U	
Benzene	ug/kg	11 U	10 U	10 U	
Bromodichloromethane	ug/kg	11 U	10 U	10 U	
Bromoform	ug/kg	11 U	10 U	10 U	
Bromomethane	ug/kg	11 U	10 U	10 U	
2-Butanone	ug/kg	11 U	10 U	10 U	
Carbon Disulfide	ug/kg	11 U	10 U	10 U	
Carbon Tetrachloride	ug/kg	11 U	10 U	10 U	
Chlorobenzene	ug/kg	11 U	10 U	10 U	
Chloroethane	ug/kg	11 U	10 U	10 U	
Chloroform	ug/kg	11 U	10 U	10 U	
Chloromethane	ug/kg	11 U	10 U	10 U	
Cyclohexane	ug/kg	11 U	10 U	10 U	
1,2-Dibromo-3-Chloropropane	ug/kg	11 U	N/A I	10 U	
Dibromochloromethane	ug/kg	11 U	10 U	10 U	
1,2-Dibromoethane	ug/kg	11 U	10 U	10 U	
1,2-Dichlorobenzene	ug/kg	11 U	10 U	10 U	
1,3-Dichlorobenzene	ug/kg	11 U	10 U	10 U	
1,4-Dichlorobenzene	ug/kg	11 U	10 U	10 U	
Dichlorodifluoromethane	ug/kg	11 U	10 U	10 U	
1,1-Dichloroethane	ug/kg	11 U	10 U	10 U	
1,2-Dichloroethane	ug/kg	11 U	10 U	10 U	
1,1-Dichloroethene	ug/kg	11 U	10 U	10 U	
cis-1,2-Dichloroethene	ug/kg	11 U	10 U	10 U	
trans-1,2-Dichloroethene	ug/kg	11 U	10 U	10 U	
1,2-Dichloropropane	ug/kg	11 U	10 U	10 U	
cis-1,3-Dichloropropene	ug/kg	11 U	10 U	10 U	
trans-1,3-Dichloropropene	ug/kg	11 U	10 U	10 U	
Ethyl Benzene	ug/kg	11 U	10 U	10 U	
2-Hexanone	ug/kg	11 U	10 U	10 U	
Isopropylbenzene	ug/kg	11 U	10 U	10 U	
Methyl Acetate	ug/kg	11 U	10 U	10 U	
Methyl tert-butyl ether	ug/kg	11 U	10 U	10 U	
Methylcyclohexane	ug/kg	11 U	10 U	10 U	
Methylene Chloride	ug/kg	11 U	10 U	10 U	
4-Methyl-2-Pentanone	ug/kg	11 U	10 U	10 U	
Styrene	ug/kg	11 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	ug/kg	11 U	10 U	10 U	
Tetrachloroethene	ug/kg	11 U	10 U	10 U	
Toluene	ug/kg	11 U	10 U	10 U	
1,2,4-Trichlorobenzene	ug/kg	11 U	10 U	10 U	
1,1,1-Trichloroethane	ug/kg	11 U	10 U	10 U	
1,1,2-Trichloroethane	ug/kg	11 U	10 U	10 U	
Trichloroethene	ug/kg	11 U	10 U	10 U	
Trichlorofluoromethane	ug/kg	11 U	10 U	10 U	
1,1,2-Trichlorotrifluoroethane	ug/kg	11 U	10 U	10 U	
Vinyl Chloride	ug/kg	11 U	10 U	10 U	
total Xylene	ug/kg	11 U	10 U	10 U	

Analysis / Analyte	Units	35-FB	41-FB	42-FB	101-__
Conductivity by Field Measurement					
Conductivity	umhos/c				0.937
pH of Water by Field Measurement					
pH	SU				6.77
Temperature of Water by Field Measurement					
Temperature	Deg C				11.1
VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L				5.4 U
Benzene	ug/L				0.50 U
Bromochloromethane	ug/L				0.50 U
Bromodichloromethane	ug/L				0.50 U
Bromoform	ug/L				0.69
Bromomethane	ug/L				0.50 U
2-Butanone	ug/L				5.0 U
Carbon Disulfide	ug/L				0.50 U
Carbon Tetrachloride	ug/L				0.50 U
Chlorobenzene	ug/L				0.50 U
Chloroethane	ug/L				0.50 U
Chloroform	ug/L				0.50 U
Chloromethane	ug/L				0.50 U
Cyclohexane	ug/L				0.50 U
1,2-Dibromo-3-Chloropropane	ug/L				0.50 U
Dibromochloromethane	ug/L				0.50 U
1,2-Dibromoethane	ug/L				0.50 U
1,2-Dichlorobenzene	ug/L				0.50 U
1,3-Dichlorobenzene	ug/L				0.50 U
1,4-Dichlorobenzene	ug/L				0.50 U
Dichlorodifluoromethane	ug/L				0.50 U
1,1-Dichloroethane	ug/L				0.50 U
1,2-Dichloroethane	ug/L				0.50 U
1,1-Dichloroethene	ug/L				0.50 U
cis-1,2-Dichloroethene	ug/L				0.50 U
trans-1,2-Dichloroethene	ug/L				0.50 U
1,2-Dichloropropane	ug/L				0.50 U
cis-1,3-Dichloropropene	ug/L				0.50 U
trans-1,3-Dichloropropene	ug/L				0.50 U
Ethyl Benzene	ug/L				0.50 U
2-Hexanone	ug/L				5.0 U
Isopropylbenzene	ug/L				0.50 U
Methyl Acetate	ug/L				0.50 U
Methyl tert-butyl ether	ug/L				0.50 U
Methylcyclohexane	ug/L				0.50 U
Methylene Chloride	ug/L				0.50 U
4-Methyl-2-Pentanone	ug/L				5.0 U
Styrene	ug/L				0.50 U
1,1,2,2-Tetrachloroethane	ug/L				0.50 U
Tetrachloroethene	ug/L				0.51
Toluene	ug/L				0.50 U

Analysis / Analyte	Units	35-FB	41-FB	42-FB	101-__
1,2,3-Trichlorobenzene	ug/L				0.50 U
1,2,4-Trichlorobenzene	ug/L				0.50 U
1,1,1-Trichloroethane	ug/L				0.50 U
1,1,2-Trichloroethane	ug/L				0.50 U
Trichloroethene	ug/L				0.50 U
Trichlorofluoromethane	ug/L				0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L				0.50 U
Vinyl Chloride	ug/L				0.50 U
total Xylene	ug/L				0.50 U

Analysis / Analyte	Units	102-__	103-__	103-FD	104-FB
Conductivity by Field Measurement					
Conductivity	umhos/c	0.621	0.725	0.725	
pH of Water by Field Measurement					
pH	SU	7.06	6.86	6.86	
Temperature of Water by Field Measurement					
Temperature	Deg C	12.3	15.5	15.5	
VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	10 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.66	0.50 U	0.50 U	1.0
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	490	230	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis / Analyte	Units	102-__	103-__	103-FD	104-FB
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
total Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis / Analyte	Units	105-FB	
VOCs in Water by GC/MS for Low Detection Limits			
Acetone	ug/L	9.4	U
Benzene	ug/L	0.50	U
Bromochloromethane	ug/L	0.50	U
Bromodichloromethane	ug/L	0.50	U
Bromoform	ug/L	0.82	
Bromomethane	ug/L	0.50	U
2-Butanone	ug/L	6.0	J
Carbon Disulfide	ug/L	0.50	U
Carbon Tetrachloride	ug/L	0.50	U
Chlorobenzene	ug/L	0.50	U
Chloroethane	ug/L	0.50	U
Chloroform	ug/L	0.50	U
Chloromethane	ug/L	0.50	U
Cyclohexane	ug/L	0.50	U
1,2-Dibromo-3-Chloropropane	ug/L	0.50	U
Dibromochloromethane	ug/L	0.50	U
1,2-Dibromoethane	ug/L	0.50	U
1,2-Dichlorobenzene	ug/L	0.50	U
1,3-Dichlorobenzene	ug/L	0.50	U
1,4-Dichlorobenzene	ug/L	0.50	U
Dichlorodifluoromethane	ug/L	0.50	U
1,1-Dichloroethane	ug/L	0.50	U
1,2-Dichloroethane	ug/L	0.50	U
1,1-Dichloroethene	ug/L	0.50	U
cis-1,2-Dichloroethene	ug/L	0.50	U
trans-1,2-Dichloroethene	ug/L	0.50	U
1,2-Dichloropropane	ug/L	0.50	U
cis-1,3-Dichloropropene	ug/L	0.50	U
trans-1,3-Dichloropropene	ug/L	0.50	U
Ethyl Benzene	ug/L	0.50	U
2-Hexanone	ug/L	5.0	U
Isopropylbenzene	ug/L	0.50	U
Methyl Acetate	ug/L	0.50	U
Methyl tert-butyl ether	ug/L	0.50	U
Methylcyclohexane	ug/L	0.50	U
Methylene Chloride	ug/L	0.50	U
4-Methyl-2-Pentanone	ug/L	5.0	U
Styrene	ug/L	0.50	U
1,1,2,2-Tetrachloroethane	ug/L	0.50	U
Tetrachloroethene	ug/L	0.50	U
Toluene	ug/L	0.50	U
1,2,3-Trichlorobenzene	ug/L	0.50	U
1,2,4-Trichlorobenzene	ug/L	0.50	U
1,1,1-Trichloroethane	ug/L	0.50	U
1,1,2-Trichloroethane	ug/L	0.50	U
Trichloroethene	ug/L	0.50	U
Trichlorofluoromethane	ug/L	0.50	U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50	U
Vinyl Chloride	ug/L	0.50	U

Analysis / Analyte	Units	105-FB
total Xylene	ug/L	0.50 U