United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 10/09/2018

Subject: Transmittal of Sample Analysis Results for ASR #: 7961

Project ID: CW PROCESS

Project Description: Phase 2 RCRA sampling of soil and groundwater

From: Margaret E.W. St. Germain, Chief
Laboratory Technology & Analysis Branch
Environmental Sciences & Technology Division

MARGARET ST. GERMAIN

Digitally signed by MARGARET ST. GERMAIN
Date: 2018.10.09 11:49:09 -05'00'

To: Dan Gravatt
AWMD/WRAP/RCAP

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please ensure that you file this electronic (.pdf only) transmittal in your records management system. The Regional Laboratory will now retain all of the original hardcopy documentation (e.g. COC[s] and the R7LIMS field sheet[s], etc.) according to our ENST records management system.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the Online ASR Sample/Data Disposition and Customer Survey for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online ASR Sample/Data Disposition and Customer Survey. It is critical that we receive your response in accordance to RCRA and the laboratory accreditation.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

RCRA 10/9/2018

576474

Project Manager: Dan Gravatt **Org:** AWMD/WRAP/ RCAP **Phone:** 913-551-7324

Project ID: CW PROCESS **QAPP Number:** 2018176

Project Desc: Phase 2 RCRA sampling of soil and groundwater

Location: Cedar Rapids **State:** Iowa **Program:** RCRA Corrective Action

Purpose: Site Characterization **GPRA PRC:** 000D99

Follow-up sampling to determine cyanide and SVOC plume extents in groundwater and identify source areas in soil for these contaminants.

This site is NOT subject to any litigation holds.

Explanation of Codes, Units and Qualifiers used on this report

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

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

Units: Specific units in which results are reported.

mg/L = Milligrams per Liter
ug/kg = Micrograms per Kilogram
mg/kg = Milligrams per Kilogram
ug/L = Micrograms per Liter

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.
R = The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
U = The analyte was not detected at or above the reporting limit.

Analysis **Comments About Results For This Analysis**

1 Cyanide, Total in Soil

Lab: REST Contract Lab (Out-Source)

Method: Similar to Cyanide, Total (see comments)

Basis: Dry

Samples:						
1-__	2-__	3-__	4-__	5-__	6-__	7-__
8-__	9-__	10-__	11-__	12-__	13-__	14-__
15-__	16-__	17-__	18-__	19-__	20-__	21-__
21-FD	23-__	23-FD	25-__	25-FD	27-__	28-__
29-__	30-__	31-__	32-__	33-__	34-__	35-__

Comments:

1 Semi-Volatile Organic Compounds in Soil

Lab: REST Contract Lab (Out-Source)

Method: Similar to EPA Region 7 RLAB Method 3230.2I (see comments)

Basis: Dry

Samples:						
1-__	2-__	3-__	4-__	5-__	6-__	7-__
8-__	9-__	10-__	11-__	12-__	13-__	14-__
15-__	16-__	17-__	18-__	19-__	20-__	21-__
21-FD	23-__	23-FD	25-__	25-FD	27-__	28-__
29-__	30-__	31-__	32-__	33-__	34-__	35-__

Comments:

The EPA Project Leader requested tentatively identified compound (TIC) data for this sample set. Therefore, the contract laboratory provided TIC data that was generated by computer software but not reviewed or evaluated by the contractor prior to submission to EPA. The contractor stated that the reported TIC data is raw, computer-generated data and does not attest to the accuracy of the identified compounds or concentrations reported on the TIC forms. TIC data was provided to the Project Leader in a separate .pdf file.

Samples 7961-2 and 7961-29 had recoveries slightly below the lower control limit for two base/neutral surrogates. All base/neutral compounds were UJ-coded in sample 7961-2 and 7961-29. These compounds were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of the surrogate analyte. The actual reporting limit for this analyte may be higher than the reported value.

For sample 7961-2, the calculated MS/MSD RPD (35%) for 3,3-dichlorbenzidine exceeded the control limit of 30%. 3,3-dichlorobenzidine was UJ-coded in sample 7961-2. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

For sample 7961-28, the calculated MS/MSD RPD for 1,2-dichlorobenzene (42%), 1,3-

ASR Number: 7961 **Sample Information Summary** **10/09/2018**

Project ID: CW PROCESS **Project Desc:** Phase 2 RCRA sampling of soil and groundwater

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -	__	Solid	Well #1, 0-1' depth		08/27/2018	14:58	08/27/2018	15:00	08/29/2018
2 -	__	Solid	Well #1, 4-5' depth		08/27/2018	14:58	08/27/2018	15:00	08/29/2018
3 -	__	Solid	Hole #13, 0-1'		08/27/2018	15:20	08/27/2018	15:22	08/29/2018
4 -	__	Solid	Hole #13, 4-5'		08/27/2018	15:20	08/27/2018	15:22	08/29/2018
5 -	__	Solid	Hole #11, 0-1'		08/27/2018	15:33	08/27/2018	15:35	08/29/2018
6 -	__	Solid	Hole #11, 4-5'		08/27/2018	15:33	08/27/2018	15:35	08/29/2018
7 -	__	Solid	Well #2, 0-1'		08/27/2018	16:07	08/27/2018	16:09	08/29/2018
8 -	__	Solid	Well #2, 4-5'		08/27/2018	16:07	08/27/2018	16:09	08/29/2018
9 -	__	Solid	Well #3, 0-1'		08/27/2018	17:03	08/27/2018	17:05	08/29/2018
10 -	__	Solid	Well #3, 4-5'		08/27/2018	17:03	08/27/2018	17:05	08/29/2018
11 -	__	Solid	Well #4, 0-1'		08/27/2018	17:33	08/27/2018	17:35	08/29/2018
12 -	__	Solid	Well #4, 4-5'		08/27/2018	17:33	08/27/2018	17:35	08/29/2018
13 -	__	Solid	Well #6, 0-1'		08/27/2018	18:07	08/27/2018	18:09	08/29/2018
14 -	__	Solid	Well #6, 4-5'		08/27/2018	18:07	08/27/2018	18:09	08/29/2018
15 -	__	Solid	Well #5, 0-1'		08/27/2018	18:36	08/27/2018	18:38	08/29/2018
16 -	__	Solid	Well #5, 4-5'		08/27/2018	18:36	08/27/2018	18:38	08/29/2018
17 -	__	Solid	Well #7, 0-1'		08/28/2018	06:54	08/28/2018	06:56	08/29/2018
18 -	__	Solid	Well #7, 4-5'		08/28/2018	06:54	08/28/2018	06:56	08/29/2018
19 -	__	Solid	Well #8, 0-1'		08/28/2018	07:23	08/28/2018	07:25	08/29/2018
20 -	__	Solid	Well #8, 4-5'		08/28/2018	07:23	08/28/2018	07:25	08/29/2018
21 -	__	Solid	Hole #16, 0-1'		08/28/2018	07:43	08/28/2018	07:45	08/29/2018
21 -	FD	Solid	Hole #16, 0-1'	Field Duplicate	08/28/2018	07:43	08/28/2018	07:45	08/29/2018
23 -	__	Solid	Hole #16, 4-5'		08/28/2018	07:43	08/28/2018	07:45	08/29/2018
23 -	FD	Solid	Hole #16, 4-5'	Field Duplicate	08/28/2018	07:43	08/28/2018	07:45	08/29/2018
25 -	__	Solid	Hole #15, 0-1'		08/28/2018	07:55	08/28/2018	07:57	08/29/2018
25 -	FD	Solid	Hole #15, 0-1'	Field Duplicate	08/28/2018	07:55	08/28/2018	07:57	08/29/2018
27 -	__	Solid	Hole #15, 4-5'		08/28/2018	07:55	08/28/2018	07:57	08/29/2018
28 -	__	Solid	Hole #12, 0-1'		08/28/2018	08:07	08/28/2018	08:09	08/29/2018
29 -	__	Solid	Hole #12, 4-5'		08/28/2018	08:07	08/28/2018	08:09	08/29/2018
30 -	__	Solid	Hole #10, 0-1'		08/28/2018	08:15	08/28/2018	08:17	08/29/2018
31 -	__	Solid	Hole #10, 4-5'		08/28/2018	08:15	08/28/2018	08:17	08/29/2018
32 -	__	Solid	Hole #9, 0-1'		08/28/2018	08:28	08/28/2018	08:30	08/29/2018
33 -	__	Solid	Hole #9, 4-5'		08/28/2018	08:28	08/28/2018	08:30	08/29/2018
34 -	__	Solid	Hole #14, 0-1'		08/28/2018	08:48	08/28/2018	08:50	08/29/2018
35 -	__	Solid	Hole #14, 4-5'		08/28/2018	08:48	08/28/2018	08:50	08/29/2018
101 -	__	Water	Well #1		08/28/2018	10:05	08/28/2018	12:50	08/29/2018
101 -	FD	Water	Well #1	Field Duplicate	08/28/2018	12:58	08/28/2018	13:03	08/29/2018
102 -	__	Water	Well #2		08/28/2018	10:45	08/28/2018	14:22	08/29/2018
103 -	__	Water	Well #4		08/28/2018	11:32	08/28/2018	11:39	08/29/2018
105 -	__	Water	Well #3		08/28/2018	11:00	08/28/2018	13:30	08/29/2018
110 -	FB	Water	Field Blank sample		08/28/2018	08:40	08/28/2018	08:47	08/29/2018

Analysis **Comments About Results For This Analysis**

dichlorobenzene (42%), 1,4-dichlorobenzene (45%), hexachloroethane (50%), and hexachlorobutadiene (35%) exceeded the control limit of 30%. 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, hexachloroethane, and hexachlorobutadiene was UJ-coded in sample 7961-28. These compounds were not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

1 Cyanide, Total in Water

Lab: REST Contract Lab (Out-Source)

Method: Similar to Cyanide, Total (see comments)

Samples: 101-__ 101-FD 102-__ 103-__ 105-__ 110-FB

Comments:
(N/A)

1 Semi-Volatile Organic Compounds in Water

Lab: REST Contract Lab (Out-Source)

Method: Similar to EPA Region 7 RLAB Method 3230.2I (see comments)

Samples: 101-__ 102-__ 110-FB

Comments:
The EPA Project Leader requested tentatively identified compound (TIC) data for this sample set. Therefore, the contract laboratory provided TIC data that was generated by computer software but not reviewed or evaluated by the contractor prior to submission to EPA. The contractor stated that the reported TIC data is raw, computer-generated data and does not attest to the accuracy of the identified compounds or concentrations reported on the TIC forms.

Sample 7961-102 was utilized for the MS/MSD analyses. 4-chloroaniline had 0% recovery in the MS/MSD and 3-nitroaniline had 0% recovery in the MSD. 4-chloroaniline and 3-nitroaniline had unacceptable response in the laboratory matrix spike indicating that is was not possible to obtain valid results for these compounds. Results of 'N/A' were reported with an R-code in sample 7961-102.

2,4-dimethylphenol was UJ-coded in sample 7961-102. This analyte was not found in the sample at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate. The actual reporting limit for this analyte may be higher than the reported value.

3-nitroaniline and 3,3-dichlorobenzidine had unacceptable response in the laboratory control sample (LCS) indicating that it was not possible to obtain valid results for these compounds. Results of 'N/A' were reported with R-codes for samples 7961-101, 7961-102, and 7961-110FB.

Analysis	Comments About Results For This Analysis

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	1.69	0.373	0.802	3.11
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	420 U	382 UJ	392 U	395 U
Acenaphthylene	ug/kg	420 U	382 UJ	392 U	395 U
Anthracene	ug/kg	420 U	382 UJ	392 U	395 U
Benzo(a)anthracene	ug/kg	420 U	382 UJ	392 U	395 U
Benzo(a)pyrene	ug/kg	420 U	382 UJ	392 U	395 U
Benzo(b)fluoranthene	ug/kg	420 U	382 UJ	392 U	395 U
Benzo(g,h,i)perylene	ug/kg	420 U	382 UJ	392 U	395 U
Benzo(k)fluoranthene	ug/kg	420 U	382 UJ	392 U	395 U
Benzoic acid	ug/kg	420 U	382 UJ	392 U	395 U
Benzyl alcohol	ug/kg	420 U	382 UJ	392 U	395 U
bis(2-Chloroethoxy)methane	ug/kg	420 U	382 UJ	392 U	395 U
bis(2-Chloroethyl)ether	ug/kg	420 U	382 UJ	392 U	395 U
bis(2-Chloroisopropyl)ether	ug/kg	420 U	382 UJ	392 U	395 U
bis(2-Ethylhexyl)phthalate	ug/kg	420 U	382 UJ	392 U	395 U
4-Bromophenyl-phenylether	ug/kg	420 U	382 UJ	392 U	395 U
Butylbenzylphthalate	ug/kg	420 U	382 UJ	392 U	395 U
Carbazole	ug/kg	420 U	382 UJ	392 U	395 U
4-Chloro-3-methylphenol	ug/kg	420 U	382 U	392 U	395 U
4-Chloroaniline	ug/kg	420 U	382 UJ	392 U	395 U
2-Chloronaphthalene	ug/kg	420 U	382 UJ	392 U	395 U
2-Chlorophenol	ug/kg	420 U	382 U	392 U	395 U
4-Chlorophenyl-phenylether	ug/kg	420 U	382 UJ	392 U	395 U
Chrysene	ug/kg	420 U	382 UJ	392 U	395 U
Di-n-butylphthalate	ug/kg	420 U	382 UJ	392 U	395 U
Di-n-octylphthalate	ug/kg	420 U	382 UJ	392 U	395 U
Dibenz(a,h)anthracene	ug/kg	420 U	382 UJ	392 U	395 U
Dibenzofuran	ug/kg	420 U	382 UJ	392 U	395 U
1,2-Dichlorobenzene	ug/kg	420 U	382 UJ	392 U	395 U
1,3-Dichlorobenzene	ug/kg	420 U	382 UJ	392 U	395 U
1,4-Dichlorobenzene	ug/kg	420 U	382 UJ	392 U	395 U
3,3'-Dichlorobenzidine	ug/kg	420 U	382 UJ	392 U	395 U
2,4-Dichlorophenol	ug/kg	420 U	382 U	392 U	395 U
Diethylphthalate	ug/kg	420 U	382 UJ	392 U	395 U
2,4-Dimethylphenol	ug/kg	420 U	382 U	392 U	395 U
Dimethylphthalate	ug/kg	420 U	382 UJ	392 U	395 U
4,6-Dinitro-2-methylphenol	ug/kg	420 U	382 U	392 U	395 U
2,4-Dinitrophenol	ug/kg	420 U	382 U	392 U	395 U
2,4-Dinitrotoluene	ug/kg	420 U	382 UJ	392 U	395 U
2,6-Dinitrotoluene	ug/kg	420 U	382 UJ	392 U	395 U
Fluoranthene	ug/kg	420 U	382 UJ	392 U	395 U
Fluorene	ug/kg	420 U	382 UJ	392 U	395 U
Hexachlorobenzene	ug/kg	420 U	382 UJ	392 U	395 U
Hexachlorobutadiene	ug/kg	420 U	382 UJ	392 U	395 U

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
Hexachlorocyclopentadiene	ug/kg	420 U	382 UJ	392 U	395 U
Hexachloroethane	ug/kg	420 U	382 UJ	392 U	395 U
Indeno(1,2,3-cd)pyrene	ug/kg	420 U	382 UJ	392 U	395 U
Isophorone	ug/kg	420 U	382 UJ	392 U	395 U
2-Methylnaphthalene	ug/kg	420 U	382 UJ	392 U	395 U
2-Methylphenol	ug/kg	420 U	382 U	392 U	395 U
4-Methylphenol	ug/kg	420 U	382 U	392 U	395 U
Naphthalene	ug/kg	420 U	382 UJ	392 U	395 U
2-Nitroaniline	ug/kg	420 U	382 UJ	392 U	395 U
3-Nitroaniline	ug/kg	420 U	382 UJ	392 U	395 U
4-Nitroaniline	ug/kg	420 U	382 UJ	392 U	395 U
Nitrobenzene	ug/kg	420 U	382 UJ	392 U	395 U
2-Nitrophenol	ug/kg	420 U	382 U	392 U	395 U
4-Nitrophenol	ug/kg	420 U	382 U	392 U	395 U
N-nitroso-di-n-propylamine	ug/kg	420 U	382 UJ	392 U	395 U
N-nitrosodiphenylamine	ug/kg	420 U	382 UJ	392 U	395 U
Pentachlorophenol	ug/kg	420 U	382 U	392 U	395 U
Phenanthrene	ug/kg	420 U	382 UJ	392 U	395 U
Phenol	ug/kg	420 U	382 U	392 U	395 U
Pyrene	ug/kg	420 U	382 UJ	392 U	395 U
1,2,4-Trichlorobenzene	ug/kg	420 U	382 UJ	392 U	395 U
2,4,5-Trichlorophenol	ug/kg	420 U	382 U	392 U	395 U
2,4,6-Trichlorophenol	ug/kg	420 U	382 U	392 U	395 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	0.33	0.3	0.836	0.236 U
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	376 U	373 U	409 U	395 U
Acenaphthylene	ug/kg	376 U	373 U	409 U	395 U
Anthracene	ug/kg	376 U	373 U	409 U	395 U
Benzo(a)anthracene	ug/kg	376 U	373 U	409 U	395 U
Benzo(a)pyrene	ug/kg	376 U	373 U	409 U	395 U
Benzo(b)fluoranthene	ug/kg	376 U	373 U	409 U	395 U
Benzo(g,h,i)perylene	ug/kg	376 U	373 U	409 U	395 U
Benzo(k)fluoranthene	ug/kg	376 U	373 U	409 U	395 U
Benzoic acid	ug/kg	376 U	373 U	409 U	395 U
Benzyl alcohol	ug/kg	376 U	373 U	409 U	395 U
bis(2-Chloroethoxy)methane	ug/kg	376 U	373 U	409 U	395 U
bis(2-Chloroethyl)ether	ug/kg	376 U	373 U	409 U	395 U
bis(2-Chloroisopropyl)ether	ug/kg	376 U	373 U	409 U	395 U
bis(2-Ethylhexyl)phthalate	ug/kg	376 U	373 U	409 U	395 U
4-Bromophenyl-phenylether	ug/kg	376 U	373 U	409 U	395 U
Butylbenzylphthalate	ug/kg	376 U	373 U	409 U	395 U
Carbazole	ug/kg	376 U	373 U	409 U	395 U
4-Chloro-3-methylphenol	ug/kg	376 U	373 U	409 U	395 U
4-Chloroaniline	ug/kg	376 U	373 U	409 U	395 U
2-Chloronaphthalene	ug/kg	376 U	373 U	409 U	395 U
2-Chlorophenol	ug/kg	376 U	373 U	409 U	395 U
4-Chlorophenyl-phenylether	ug/kg	376 U	373 U	409 U	395 U
Chrysene	ug/kg	376 U	373 U	409 U	395 U
Di-n-butylphthalate	ug/kg	376 U	373 U	409 U	395 U
Di-n-octylphthalate	ug/kg	376 U	373 U	409 U	395 U
Dibenz(a,h)anthracene	ug/kg	376 U	373 U	409 U	395 U
Dibenzofuran	ug/kg	376 U	373 U	409 U	395 U
1,2-Dichlorobenzene	ug/kg	376 U	373 U	409 U	395 U
1,3-Dichlorobenzene	ug/kg	376 U	373 U	409 U	395 U
1,4-Dichlorobenzene	ug/kg	376 U	373 U	409 U	395 U
3,3'-Dichlorobenzidine	ug/kg	376 U	373 U	409 U	395 U
2,4-Dichlorophenol	ug/kg	376 U	373 U	409 U	395 U
Diethylphthalate	ug/kg	376 U	373 U	409 U	395 U
2,4-Dimethylphenol	ug/kg	376 U	373 U	409 U	395 U
Dimethylphthalate	ug/kg	376 U	373 U	409 U	395 U
4,6-Dinitro-2-methylphenol	ug/kg	376 U	373 U	409 U	395 U
2,4-Dinitrophenol	ug/kg	376 U	373 U	409 U	395 U
2,4-Dinitrotoluene	ug/kg	376 U	373 U	409 U	395 U
2,6-Dinitrotoluene	ug/kg	376 U	373 U	409 U	395 U
Fluoranthene	ug/kg	376 U	373 U	409 U	395 U
Fluorene	ug/kg	376 U	373 U	409 U	395 U
Hexachlorobenzene	ug/kg	376 U	373 U	409 U	395 U
Hexachlorobutadiene	ug/kg	376 U	373 U	409 U	395 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
Hexachlorocyclopentadiene	ug/kg	376 U	373 U	409 U	395 U
Hexachloroethane	ug/kg	376 U	373 U	409 U	395 U
Indeno(1,2,3-cd)pyrene	ug/kg	376 U	373 U	409 U	395 U
Isophorone	ug/kg	376 U	373 U	409 U	395 U
2-Methylnaphthalene	ug/kg	376 U	373 U	409 U	395 U
2-Methylphenol	ug/kg	376 U	373 U	409 U	395 U
4-Methylphenol	ug/kg	376 U	373 U	409 U	395 U
Naphthalene	ug/kg	376 U	373 U	409 U	395 U
2-Nitroaniline	ug/kg	376 U	373 U	409 U	395 U
3-Nitroaniline	ug/kg	376 U	373 U	409 U	395 U
4-Nitroaniline	ug/kg	376 U	373 U	409 U	395 U
Nitrobenzene	ug/kg	376 U	373 U	409 U	395 U
2-Nitrophenol	ug/kg	376 U	373 U	409 U	395 U
4-Nitrophenol	ug/kg	376 U	373 U	409 U	395 U
N-nitroso-di-n-propylamine	ug/kg	376 U	373 U	409 U	395 U
N-nitrosodiphenylamine	ug/kg	376 U	373 U	409 U	395 U
Pentachlorophenol	ug/kg	376 U	373 U	409 U	395 U
Phenanthrene	ug/kg	376 U	373 U	409 U	395 U
Phenol	ug/kg	376 U	373 U	409 U	395 U
Pyrene	ug/kg	376 U	373 U	409 U	395 U
1,2,4-Trichlorobenzene	ug/kg	376 U	373 U	409 U	395 U
2,4,5-Trichlorophenol	ug/kg	376 U	373 U	409 U	395 U
2,4,6-Trichlorophenol	ug/kg	376 U	373 U	409 U	395 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	0.251 U	0.369	201	30.3
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	417 U	419 U	409 U	419 U
Acenaphthylene	ug/kg	417 U	419 U	409 U	419 U
Anthracene	ug/kg	417 U	419 U	409 U	419 U
Benzo(a)anthracene	ug/kg	417 U	419 U	409 U	419 U
Benzo(a)pyrene	ug/kg	417 U	419 U	409 U	419 U
Benzo(b)fluoranthene	ug/kg	417 U	419 U	409 U	419 U
Benzo(g,h,i)perylene	ug/kg	417 U	419 U	409 U	419 U
Benzo(k)fluoranthene	ug/kg	417 U	419 U	409 U	419 U
Benzoic acid	ug/kg	417 U	419 U	409 U	419 U
Benzyl alcohol	ug/kg	417 U	419 U	409 U	419 U
bis(2-Chloroethoxy)methane	ug/kg	417 U	419 U	409 U	419 U
bis(2-Chloroethyl)ether	ug/kg	417 U	419 U	409 U	419 U
bis(2-Chloroisopropyl)ether	ug/kg	417 U	419 U	409 U	419 U
bis(2-Ethylhexyl)phthalate	ug/kg	417 U	419 U	409 U	419 U
4-Bromophenyl-phenylether	ug/kg	417 U	419 U	409 U	419 U
Butylbenzylphthalate	ug/kg	417 U	419 U	409 U	419 U
Carbazole	ug/kg	417 U	419 U	409 U	419 U
4-Chloro-3-methylphenol	ug/kg	417 U	419 U	409 U	419 U
4-Chloroaniline	ug/kg	417 U	419 U	409 U	419 U
2-Chloronaphthalene	ug/kg	417 U	419 U	409 U	419 U
2-Chlorophenol	ug/kg	417 U	419 U	409 U	419 U
4-Chlorophenyl-phenylether	ug/kg	417 U	419 U	409 U	419 U
Chrysene	ug/kg	417 U	419 U	409 U	419 U
Di-n-butylphthalate	ug/kg	417 U	419 U	409 U	419 U
Di-n-octylphthalate	ug/kg	417 U	419 U	409 U	419 U
Dibenz(a,h)anthracene	ug/kg	417 U	419 U	409 U	419 U
Dibenzofuran	ug/kg	417 U	419 U	409 U	419 U
1,2-Dichlorobenzene	ug/kg	417 U	419 U	409 U	419 U
1,3-Dichlorobenzene	ug/kg	417 U	419 U	409 U	419 U
1,4-Dichlorobenzene	ug/kg	417 U	419 U	409 U	419 U
3,3'-Dichlorobenzidine	ug/kg	417 U	419 U	409 U	419 U
2,4-Dichlorophenol	ug/kg	417 U	419 U	409 U	419 U
Diethylphthalate	ug/kg	417 U	419 U	409 U	419 U
2,4-Dimethylphenol	ug/kg	417 U	419 U	409 U	419 U
Dimethylphthalate	ug/kg	417 U	419 U	409 U	419 U
4,6-Dinitro-2-methylphenol	ug/kg	417 U	419 U	409 U	419 U
2,4-Dinitrophenol	ug/kg	417 U	419 U	409 U	419 U
2,4-Dinitrotoluene	ug/kg	417 U	419 U	409 U	419 U
2,6-Dinitrotoluene	ug/kg	417 U	419 U	409 U	419 U
Fluoranthene	ug/kg	417 U	419 U	409 U	419 U
Fluorene	ug/kg	417 U	419 U	409 U	419 U
Hexachlorobenzene	ug/kg	417 U	419 U	409 U	419 U
Hexachlorobutadiene	ug/kg	417 U	419 U	409 U	419 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
Hexachlorocyclopentadiene	ug/kg	417 U	419 U	409 U	419 U
Hexachloroethane	ug/kg	417 U	419 U	409 U	419 U
Indeno(1,2,3-cd)pyrene	ug/kg	417 U	419 U	409 U	419 U
Isophorone	ug/kg	417 U	419 U	409 U	419 U
2-Methylnaphthalene	ug/kg	417 U	419 U	409 U	419 U
2-Methylphenol	ug/kg	417 U	419 U	409 U	419 U
4-Methylphenol	ug/kg	417 U	419 U	409 U	419 U
Naphthalene	ug/kg	417 U	419 U	409 U	419 U
2-Nitroaniline	ug/kg	417 U	419 U	409 U	419 U
3-Nitroaniline	ug/kg	417 U	419 U	409 U	419 U
4-Nitroaniline	ug/kg	417 U	419 U	409 U	419 U
Nitrobenzene	ug/kg	417 U	419 U	409 U	419 U
2-Nitrophenol	ug/kg	417 U	419 U	409 U	419 U
4-Nitrophenol	ug/kg	417 U	419 U	409 U	419 U
N-nitroso-di-n-propylamine	ug/kg	417 U	419 U	409 U	419 U
N-nitrosodiphenylamine	ug/kg	417 U	419 U	409 U	419 U
Pentachlorophenol	ug/kg	417 U	419 U	409 U	419 U
Phenanthrene	ug/kg	417 U	419 U	409 U	419 U
Phenol	ug/kg	417 U	419 U	409 U	419 U
Pyrene	ug/kg	417 U	419 U	409 U	419 U
1,2,4-Trichlorobenzene	ug/kg	417 U	419 U	409 U	419 U
2,4,5-Trichlorophenol	ug/kg	417 U	419 U	409 U	419 U
2,4,6-Trichlorophenol	ug/kg	417 U	419 U	409 U	419 U

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	0.662	0.633	1.21	1.58
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	426 U	409 U	399 U	408 U
Acenaphthylene	ug/kg	426 U	409 U	399 U	408 U
Anthracene	ug/kg	426 U	409 U	399 U	408 U
Benzo(a)anthracene	ug/kg	426 U	409 U	399 U	408 U
Benzo(a)pyrene	ug/kg	426 U	409 U	399 U	408 U
Benzo(b)fluoranthene	ug/kg	426 U	409 U	399 U	408 U
Benzo(g,h,i)perylene	ug/kg	426 U	409 U	399 U	408 U
Benzo(k)fluoranthene	ug/kg	426 U	409 U	399 U	408 U
Benzoic acid	ug/kg	426 U	409 U	399 U	408 U
Benzyl alcohol	ug/kg	426 U	409 U	399 U	408 U
bis(2-Chloroethoxy)methane	ug/kg	426 U	409 U	399 U	408 U
bis(2-Chloroethyl)ether	ug/kg	426 U	409 U	399 U	408 U
bis(2-Chloroisopropyl)ether	ug/kg	426 U	409 U	399 U	408 U
bis(2-Ethylhexyl)phthalate	ug/kg	426 U	409 U	399 U	408 U
4-Bromophenyl-phenylether	ug/kg	426 U	409 U	399 U	408 U
Butylbenzylphthalate	ug/kg	426 U	409 U	399 U	408 U
Carbazole	ug/kg	426 U	409 U	399 U	408 U
4-Chloro-3-methylphenol	ug/kg	426 U	409 U	399 U	408 U
4-Chloroaniline	ug/kg	426 U	409 U	399 U	408 U
2-Chloronaphthalene	ug/kg	426 U	409 U	399 U	408 U
2-Chlorophenol	ug/kg	426 U	409 U	399 U	408 U
4-Chlorophenyl-phenylether	ug/kg	426 U	409 U	399 U	408 U
Chrysene	ug/kg	426 U	409 U	399 U	408 U
Di-n-butylphthalate	ug/kg	426 U	409 U	399 U	408 U
Di-n-octylphthalate	ug/kg	426 U	409 U	399 U	408 U
Dibenz(a,h)anthracene	ug/kg	426 U	409 U	399 U	408 U
Dibenzofuran	ug/kg	426 U	409 U	399 U	408 U
1,2-Dichlorobenzene	ug/kg	426 U	409 U	399 U	408 U
1,3-Dichlorobenzene	ug/kg	426 U	409 U	399 U	408 U
1,4-Dichlorobenzene	ug/kg	426 U	409 U	399 U	408 U
3,3'-Dichlorobenzidine	ug/kg	426 U	409 U	399 U	408 U
2,4-Dichlorophenol	ug/kg	426 U	409 U	399 U	408 U
Diethylphthalate	ug/kg	426 U	409 U	399 U	408 U
2,4-Dimethylphenol	ug/kg	426 U	409 U	399 U	408 U
Dimethylphthalate	ug/kg	426 U	409 U	399 U	408 U
4,6-Dinitro-2-methylphenol	ug/kg	426 U	409 U	399 U	408 U
2,4-Dinitrophenol	ug/kg	426 U	409 U	399 U	408 U
2,4-Dinitrotoluene	ug/kg	426 U	409 U	399 U	408 U
2,6-Dinitrotoluene	ug/kg	426 U	409 U	399 U	408 U
Fluoranthene	ug/kg	426 U	409 U	399 U	408 U
Fluorene	ug/kg	426 U	409 U	399 U	408 U
Hexachlorobenzene	ug/kg	426 U	409 U	399 U	408 U
Hexachlorobutadiene	ug/kg	426 U	409 U	399 U	408 U

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
Hexachlorocyclopentadiene	ug/kg	426 U	409 U	399 U	408 U
Hexachloroethane	ug/kg	426 U	409 U	399 U	408 U
Indeno(1,2,3-cd)pyrene	ug/kg	426 U	409 U	399 U	408 U
Isophorone	ug/kg	426 U	409 U	399 U	408 U
2-Methylnaphthalene	ug/kg	426 U	409 U	399 U	408 U
2-Methylphenol	ug/kg	426 U	409 U	399 U	408 U
4-Methylphenol	ug/kg	426 U	409 U	399 U	408 U
Naphthalene	ug/kg	426 U	409 U	399 U	408 U
2-Nitroaniline	ug/kg	426 U	409 U	399 U	408 U
3-Nitroaniline	ug/kg	426 U	409 U	399 U	408 U
4-Nitroaniline	ug/kg	426 U	409 U	399 U	408 U
Nitrobenzene	ug/kg	426 U	409 U	399 U	408 U
2-Nitrophenol	ug/kg	426 U	409 U	399 U	408 U
4-Nitrophenol	ug/kg	426 U	409 U	399 U	408 U
N-nitroso-di-n-propylamine	ug/kg	426 U	409 U	399 U	408 U
N-nitrosodiphenylamine	ug/kg	426 U	409 U	399 U	408 U
Pentachlorophenol	ug/kg	426 U	409 U	399 U	408 U
Phenanthrene	ug/kg	426 U	409 U	399 U	408 U
Phenol	ug/kg	426 U	409 U	399 U	408 U
Pyrene	ug/kg	426 U	409 U	399 U	408 U
1,2,4-Trichlorobenzene	ug/kg	426 U	409 U	399 U	408 U
2,4,5-Trichlorophenol	ug/kg	426 U	409 U	399 U	408 U
2,4,6-Trichlorophenol	ug/kg	426 U	409 U	399 U	408 U

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	0.209 U	0.225 U	0.231 U	0.647
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	349 U	375 U	403 U	356 U
Acenaphthylene	ug/kg	349 U	375 U	403 U	356 U
Anthracene	ug/kg	349 U	375 U	403 U	356 U
Benzo(a)anthracene	ug/kg	349 U	375 U	403 U	356 U
Benzo(a)pyrene	ug/kg	349 U	375 U	403 U	356 U
Benzo(b)fluoranthene	ug/kg	349 U	375 U	403 U	356 U
Benzo(g,h,i)perylene	ug/kg	349 U	375 U	403 U	356 U
Benzo(k)fluoranthene	ug/kg	349 U	375 U	403 U	356 U
Benzoic acid	ug/kg	349 U	375 U	403 U	356 U
Benzyl alcohol	ug/kg	349 U	375 U	403 U	356 U
bis(2-Chloroethoxy)methane	ug/kg	349 U	375 U	403 U	356 U
bis(2-Chloroethyl)ether	ug/kg	349 U	375 U	403 U	356 U
bis(2-Chloroisopropyl)ether	ug/kg	349 U	375 U	403 U	356 U
bis(2-Ethylhexyl)phthalate	ug/kg	349 U	375 U	403 U	356 U
4-Bromophenyl-phenylether	ug/kg	349 U	375 U	403 U	356 U
Butylbenzylphthalate	ug/kg	349 U	375 U	403 U	356 U
Carbazole	ug/kg	349 U	375 U	403 U	356 U
4-Chloro-3-methylphenol	ug/kg	349 U	375 U	403 U	356 U
4-Chloroaniline	ug/kg	349 U	375 U	403 U	356 U
2-Chloronaphthalene	ug/kg	349 U	375 U	403 U	356 U
2-Chlorophenol	ug/kg	349 U	375 U	403 U	356 U
4-Chlorophenyl-phenylether	ug/kg	349 U	375 U	403 U	356 U
Chrysene	ug/kg	349 U	375 U	403 U	356 U
Di-n-butylphthalate	ug/kg	349 U	375 U	403 U	356 U
Di-n-octylphthalate	ug/kg	349 U	375 U	403 U	356 U
Dibenz(a,h)anthracene	ug/kg	349 U	375 U	403 U	356 U
Dibenzofuran	ug/kg	349 U	375 U	403 U	356 U
1,2-Dichlorobenzene	ug/kg	349 U	375 U	403 U	356 U
1,3-Dichlorobenzene	ug/kg	349 U	375 U	403 U	356 U
1,4-Dichlorobenzene	ug/kg	349 U	375 U	403 U	356 U
3,3'-Dichlorobenzidine	ug/kg	349 U	375 U	403 U	356 U
2,4-Dichlorophenol	ug/kg	349 U	375 U	403 U	356 U
Diethylphthalate	ug/kg	349 U	375 U	403 U	356 U
2,4-Dimethylphenol	ug/kg	349 U	375 U	403 U	356 U
Dimethylphthalate	ug/kg	349 U	375 U	403 U	356 U
4,6-Dinitro-2-methylphenol	ug/kg	349 U	375 U	403 U	356 U
2,4-Dinitrophenol	ug/kg	349 U	375 U	403 U	356 U
2,4-Dinitrotoluene	ug/kg	349 U	375 U	403 U	356 U
2,6-Dinitrotoluene	ug/kg	349 U	375 U	403 U	356 U
Fluoranthene	ug/kg	349 U	375 U	403 U	356 U
Fluorene	ug/kg	349 U	375 U	403 U	356 U
Hexachlorobenzene	ug/kg	349 U	375 U	403 U	356 U
Hexachlorobutadiene	ug/kg	349 U	375 U	403 U	356 U

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
Hexachlorocyclopentadiene	ug/kg	349 U	375 U	403 U	356 U
Hexachloroethane	ug/kg	349 U	375 U	403 U	356 U
Indeno(1,2,3-cd)pyrene	ug/kg	349 U	375 U	403 U	356 U
Isophorone	ug/kg	349 U	375 U	403 U	356 U
2-Methylnaphthalene	ug/kg	349 U	375 U	403 U	356 U
2-Methylphenol	ug/kg	349 U	375 U	403 U	356 U
4-Methylphenol	ug/kg	349 U	375 U	403 U	356 U
Naphthalene	ug/kg	349 U	375 U	403 U	356 U
2-Nitroaniline	ug/kg	349 U	375 U	403 U	356 U
3-Nitroaniline	ug/kg	349 U	375 U	403 U	356 U
4-Nitroaniline	ug/kg	349 U	375 U	403 U	356 U
Nitrobenzene	ug/kg	349 U	375 U	403 U	356 U
2-Nitrophenol	ug/kg	349 U	375 U	403 U	356 U
4-Nitrophenol	ug/kg	349 U	375 U	403 U	356 U
N-nitroso-di-n-propylamine	ug/kg	349 U	375 U	403 U	356 U
N-nitrosodiphenylamine	ug/kg	349 U	375 U	403 U	356 U
Pentachlorophenol	ug/kg	349 U	375 U	403 U	356 U
Phenanthrene	ug/kg	349 U	375 U	403 U	356 U
Phenol	ug/kg	349 U	375 U	403 U	356 U
Pyrene	ug/kg	349 U	375 U	403 U	356 U
1,2,4-Trichlorobenzene	ug/kg	349 U	375 U	403 U	356 U
2,4,5-Trichlorophenol	ug/kg	349 U	375 U	403 U	356 U
2,4,6-Trichlorophenol	ug/kg	349 U	375 U	403 U	356 U

Analysis/ Analyte	Units	21-__	21-FD	23-__	23-FD
1 Cyanide, Total in Soil					
Cyanide	mg/kg	3.23	2.68	0.216 U	1.99
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	385 U	380 U	376 U	361 U
Acenaphthylene	ug/kg	385 U	380 U	376 U	361 U
Anthracene	ug/kg	385 U	380 U	376 U	361 U
Benzo(a)anthracene	ug/kg	385 U	380 U	376 U	361 U
Benzo(a)pyrene	ug/kg	385 U	380 U	376 U	361 U
Benzo(b)fluoranthene	ug/kg	385 U	380 U	376 U	361 U
Benzo(g,h,i)perylene	ug/kg	385 U	380 U	376 U	361 U
Benzo(k)fluoranthene	ug/kg	385 U	380 U	376 U	361 U
Benzoic acid	ug/kg	385 U	380 U	376 U	361 U
Benzyl alcohol	ug/kg	385 U	380 U	376 U	361 U
bis(2-Chloroethoxy)methane	ug/kg	385 U	380 U	376 U	361 U
bis(2-Chloroethyl)ether	ug/kg	385 U	380 U	376 U	361 U
bis(2-Chloroisopropyl)ether	ug/kg	385 U	380 U	376 U	361 U
bis(2-Ethylhexyl)phthalate	ug/kg	385 U	380 U	376 U	361 U
4-Bromophenyl-phenylether	ug/kg	385 U	380 U	376 U	361 U
Butylbenzylphthalate	ug/kg	385 U	380 U	376 U	361 U
Carbazole	ug/kg	385 U	380 U	376 U	361 U
4-Chloro-3-methylphenol	ug/kg	385 U	380 U	376 U	361 U
4-Chloroaniline	ug/kg	385 U	380 U	376 U	361 U
2-Chloronaphthalene	ug/kg	385 U	380 U	376 U	361 U
2-Chlorophenol	ug/kg	385 U	380 U	376 U	361 U
4-Chlorophenyl-phenylether	ug/kg	385 U	380 U	376 U	361 U
Chrysene	ug/kg	385 U	380 U	376 U	361 U
Di-n-butylphthalate	ug/kg	385 U	380 U	376 U	361 U
Di-n-octylphthalate	ug/kg	385 U	380 U	376 U	361 U
Dibenz(a,h)anthracene	ug/kg	385 U	380 U	376 U	361 U
Dibenzofuran	ug/kg	385 U	380 U	376 U	361 U
1,2-Dichlorobenzene	ug/kg	385 U	380 U	376 U	361 U
1,3-Dichlorobenzene	ug/kg	385 U	380 U	376 U	361 U
1,4-Dichlorobenzene	ug/kg	385 U	380 U	376 U	361 U
3,3'-Dichlorobenzidine	ug/kg	385 U	380 U	376 U	361 U
2,4-Dichlorophenol	ug/kg	385 U	380 U	376 U	361 U
Diethylphthalate	ug/kg	385 U	380 U	376 U	361 U
2,4-Dimethylphenol	ug/kg	385 U	380 U	376 U	361 U
Dimethylphthalate	ug/kg	385 U	380 U	376 U	361 U
4,6-Dinitro-2-methylphenol	ug/kg	385 U	380 U	376 U	361 U
2,4-Dinitrophenol	ug/kg	385 U	380 U	376 U	361 U
2,4-Dinitrotoluene	ug/kg	385 U	380 U	376 U	361 U
2,6-Dinitrotoluene	ug/kg	385 U	380 U	376 U	361 U
Fluoranthene	ug/kg	385 U	380 U	376 U	361 U
Fluorene	ug/kg	385 U	380 U	376 U	361 U
Hexachlorobenzene	ug/kg	385 U	380 U	376 U	361 U
Hexachlorobutadiene	ug/kg	385 U	380 U	376 U	361 U

Analysis/ Analyte	Units	21-__	21-FD	23-__	23-FD
Hexachlorocyclopentadiene	ug/kg	385 U	380 U	376 U	361 U
Hexachloroethane	ug/kg	385 U	380 U	376 U	361 U
Indeno(1,2,3-cd)pyrene	ug/kg	385 U	380 U	376 U	361 U
Isophorone	ug/kg	385 U	380 U	376 U	361 U
2-Methylnaphthalene	ug/kg	385 U	380 U	376 U	361 U
2-Methylphenol	ug/kg	385 U	380 U	376 U	361 U
4-Methylphenol	ug/kg	385 U	380 U	376 U	361 U
Naphthalene	ug/kg	385 U	380 U	376 U	361 U
2-Nitroaniline	ug/kg	385 U	380 U	376 U	361 U
3-Nitroaniline	ug/kg	385 U	380 U	376 U	361 U
4-Nitroaniline	ug/kg	385 U	380 U	376 U	361 U
Nitrobenzene	ug/kg	385 U	380 U	376 U	361 U
2-Nitrophenol	ug/kg	385 U	380 U	376 U	361 U
4-Nitrophenol	ug/kg	385 U	380 U	376 U	361 U
N-nitroso-di-n-propylamine	ug/kg	385 U	380 U	376 U	361 U
N-nitrosodiphenylamine	ug/kg	385 U	380 U	376 U	361 U
Pentachlorophenol	ug/kg	385 U	380 U	376 U	361 U
Phenanthrene	ug/kg	385 U	380 U	376 U	361 U
Phenol	ug/kg	385 U	380 U	376 U	361 U
Pyrene	ug/kg	385 U	380 U	376 U	361 U
1,2,4-Trichlorobenzene	ug/kg	385 U	380 U	376 U	361 U
2,4,5-Trichlorophenol	ug/kg	385 U	380 U	376 U	361 U
2,4,6-Trichlorophenol	ug/kg	385 U	380 U	376 U	361 U

Analysis/ Analyte	Units	25-__	25-FD	27-__	28-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	1.42	1.31	4.3	0.29
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	407 U	378 U	430 U	387 U
Acenaphthylene	ug/kg	407 U	378 U	430 U	387 U
Anthracene	ug/kg	407 U	378 U	430 U	387 U
Benzo(a)anthracene	ug/kg	407 U	378 U	430 U	387 U
Benzo(a)pyrene	ug/kg	407 U	378 U	430 U	387 U
Benzo(b)fluoranthene	ug/kg	407 U	378 U	430 U	387 U
Benzo(g,h,i)perylene	ug/kg	407 U	378 U	430 U	387 U
Benzo(k)fluoranthene	ug/kg	407 U	378 U	430 U	387 U
Benzoic acid	ug/kg	407 U	378 U	430 U	387 U
Benzyl alcohol	ug/kg	407 U	378 U	430 U	387 U
bis(2-Chloroethoxy)methane	ug/kg	407 U	378 U	430 U	387 U
bis(2-Chloroethyl)ether	ug/kg	407 U	378 U	430 U	387 U
bis(2-Chloroisopropyl)ether	ug/kg	407 U	378 U	430 U	387 U
bis(2-Ethylhexyl)phthalate	ug/kg	407 U	378 U	430 U	387 U
4-Bromophenyl-phenylether	ug/kg	407 U	378 U	430 U	387 U
Butylbenzylphthalate	ug/kg	407 U	378 U	430 U	387 U
Carbazole	ug/kg	407 U	378 U	430 U	387 U
4-Chloro-3-methylphenol	ug/kg	407 U	378 U	430 U	387 U
4-Chloroaniline	ug/kg	407 U	378 U	430 U	387 U
2-Chloronaphthalene	ug/kg	407 U	378 U	430 U	387 U
2-Chlorophenol	ug/kg	407 U	378 U	430 U	387 U
4-Chlorophenyl-phenylether	ug/kg	407 U	378 U	430 U	387 U
Chrysene	ug/kg	407 U	378 U	430 U	387 U
Di-n-butylphthalate	ug/kg	407 U	378 U	430 U	387 U
Di-n-octylphthalate	ug/kg	407 U	378 U	430 U	387 U
Dibenz(a,h)anthracene	ug/kg	407 U	378 U	430 U	387 U
Dibenzofuran	ug/kg	407 U	378 U	430 U	387 U
1,2-Dichlorobenzene	ug/kg	407 U	378 U	430 U	387 UJ
1,3-Dichlorobenzene	ug/kg	407 U	378 U	430 U	387 UJ
1,4-Dichlorobenzene	ug/kg	407 U	378 U	430 U	387 UJ
3,3'-Dichlorobenzidine	ug/kg	407 U	378 U	430 U	387 U
2,4-Dichlorophenol	ug/kg	407 U	378 U	430 U	387 U
Diethylphthalate	ug/kg	407 U	378 U	430 U	387 U
2,4-Dimethylphenol	ug/kg	407 U	378 U	430 U	387 U
Dimethylphthalate	ug/kg	407 U	378 U	430 U	387 U
4,6-Dinitro-2-methylphenol	ug/kg	407 U	378 U	430 U	387 U
2,4-Dinitrophenol	ug/kg	407 U	378 U	430 U	387 U
2,4-Dinitrotoluene	ug/kg	407 U	378 U	430 U	387 U
2,6-Dinitrotoluene	ug/kg	407 U	378 U	430 U	387 U
Fluoranthene	ug/kg	407 U	378 U	430 U	387 U
Fluorene	ug/kg	407 U	378 U	430 U	387 U
Hexachlorobenzene	ug/kg	407 U	378 U	430 U	387 U
Hexachlorobutadiene	ug/kg	407 U	378 U	430 U	387 UJ

Analysis/ Analyte	Units	25-__	25-FD	27-__	28-__
Hexachlorocyclopentadiene	ug/kg	407 U	378 U	430 U	387 U
Hexachloroethane	ug/kg	407 U	378 U	430 U	387 UJ
Indeno(1,2,3-cd)pyrene	ug/kg	407 U	378 U	430 U	387 U
Isophorone	ug/kg	407 U	378 U	430 U	387 U
2-Methylnaphthalene	ug/kg	407 U	378 U	430 U	387 U
2-Methylphenol	ug/kg	407 U	378 U	430 U	387 U
4-Methylphenol	ug/kg	407 U	378 U	430 U	387 U
Naphthalene	ug/kg	407 U	378 U	430 U	387 U
2-Nitroaniline	ug/kg	407 U	378 U	430 U	387 U
3-Nitroaniline	ug/kg	407 U	378 U	430 U	387 U
4-Nitroaniline	ug/kg	407 U	378 U	430 U	387 U
Nitrobenzene	ug/kg	407 U	378 U	430 U	387 U
2-Nitrophenol	ug/kg	407 U	378 U	430 U	387 U
4-Nitrophenol	ug/kg	407 U	378 U	430 U	387 U
N-nitroso-di-n-propylamine	ug/kg	407 U	378 U	430 U	387 U
N-nitrosodiphenylamine	ug/kg	407 U	378 U	430 U	387 U
Pentachlorophenol	ug/kg	407 U	378 U	430 U	387 U
Phenanthrene	ug/kg	407 U	378 U	430 U	387 U
Phenol	ug/kg	407 U	378 U	430 U	387 U
Pyrene	ug/kg	407 U	378 U	430 U	387 U
1,2,4-Trichlorobenzene	ug/kg	407 U	378 U	430 U	387 U
2,4,5-Trichlorophenol	ug/kg	407 U	378 U	430 U	387 U
2,4,6-Trichlorophenol	ug/kg	407 U	378 U	430 U	387 U

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	10.4	0.19 U	0.247 U	0.232 U
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	470 UJ	374 U	427 U	399 U
Acenaphthylene	ug/kg	470 UJ	374 U	427 U	399 U
Anthracene	ug/kg	470 UJ	374 U	427 U	399 U
Benzo(a)anthracene	ug/kg	470 UJ	374 U	427 U	399 U
Benzo(a)pyrene	ug/kg	470 UJ	374 U	427 U	399 U
Benzo(b)fluoranthene	ug/kg	470 UJ	374 U	427 U	399 U
Benzo(g,h,i)perylene	ug/kg	470 UJ	374 U	427 U	399 U
Benzo(k)fluoranthene	ug/kg	470 UJ	374 U	427 U	399 U
Benzoic acid	ug/kg	470 UJ	374 U	427 U	399 U
Benzyl alcohol	ug/kg	470 UJ	374 U	427 U	399 U
bis(2-Chloroethoxy)methane	ug/kg	470 UJ	374 U	427 U	399 U
bis(2-Chloroethyl)ether	ug/kg	470 UJ	374 U	427 U	399 U
bis(2-Chloroisopropyl)ether	ug/kg	470 UJ	374 U	427 U	399 U
bis(2-Ethylhexyl)phthalate	ug/kg	470 UJ	374 U	427 U	399 U
4-Bromophenyl-phenylether	ug/kg	470 UJ	374 U	427 U	399 U
Butylbenzylphthalate	ug/kg	470 UJ	374 U	427 U	399 U
Carbazole	ug/kg	470 UJ	374 U	427 U	399 U
4-Chloro-3-methylphenol	ug/kg	470 U	374 U	427 U	399 U
4-Chloroaniline	ug/kg	470 UJ	374 U	427 U	399 U
2-Chloronaphthalene	ug/kg	470 UJ	374 U	427 U	399 U
2-Chlorophenol	ug/kg	470 U	374 U	427 U	399 U
4-Chlorophenyl-phenylether	ug/kg	470 UJ	374 U	427 U	399 U
Chrysene	ug/kg	470 UJ	374 U	427 U	399 U
Di-n-butylphthalate	ug/kg	470 UJ	374 U	427 U	399 U
Di-n-octylphthalate	ug/kg	470 UJ	374 U	427 U	399 U
Dibenz(a,h)anthracene	ug/kg	470 UJ	374 U	427 U	399 U
Dibenzofuran	ug/kg	470 UJ	374 U	427 U	399 U
1,2-Dichlorobenzene	ug/kg	470 UJ	374 U	427 U	399 U
1,3-Dichlorobenzene	ug/kg	470 UJ	374 U	427 U	399 U
1,4-Dichlorobenzene	ug/kg	470 UJ	374 U	427 U	399 U
3,3'-Dichlorobenzidine	ug/kg	470 UJ	374 U	427 U	399 U
2,4-Dichlorophenol	ug/kg	470 U	374 U	427 U	399 U
Diethylphthalate	ug/kg	470 UJ	374 U	427 U	399 U
2,4-Dimethylphenol	ug/kg	470 U	374 U	427 U	399 U
Dimethylphthalate	ug/kg	470 UJ	374 U	427 U	399 U
4,6-Dinitro-2-methylphenol	ug/kg	470 U	374 U	427 U	399 U
2,4-Dinitrophenol	ug/kg	470 U	374 U	427 U	399 U
2,4-Dinitrotoluene	ug/kg	470 UJ	374 U	427 U	399 U
2,6-Dinitrotoluene	ug/kg	470 UJ	374 U	427 U	399 U
Fluoranthene	ug/kg	470 UJ	374 U	427 U	399 U
Fluorene	ug/kg	470 UJ	374 U	427 U	399 U
Hexachlorobenzene	ug/kg	470 UJ	374 U	427 U	399 U
Hexachlorobutadiene	ug/kg	470 UJ	374 U	427 U	399 U

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
Hexachlorocyclopentadiene	ug/kg	470 UJ	374 U	427 U	399 U
Hexachloroethane	ug/kg	470 UJ	374 U	427 U	399 U
Indeno(1,2,3-cd)pyrene	ug/kg	470 UJ	374 U	427 U	399 U
Isophorone	ug/kg	470 UJ	374 U	427 U	399 U
2-Methylnaphthalene	ug/kg	470 UJ	374 U	427 U	399 U
2-Methylphenol	ug/kg	470 U	374 U	427 U	399 U
4-Methylphenol	ug/kg	470 U	374 U	427 U	399 U
Naphthalene	ug/kg	470 UJ	374 U	427 U	399 U
2-Nitroaniline	ug/kg	470 UJ	374 U	427 U	399 U
3-Nitroaniline	ug/kg	470 UJ	374 U	427 U	399 U
4-Nitroaniline	ug/kg	470 UJ	374 U	427 U	399 U
Nitrobenzene	ug/kg	470 UJ	374 U	427 U	399 U
2-Nitrophenol	ug/kg	470 U	374 U	427 U	399 U
4-Nitrophenol	ug/kg	470 U	374 U	427 U	399 U
N-nitroso-di-n-propylamine	ug/kg	470 UJ	374 U	427 U	399 U
N-nitrosodiphenylamine	ug/kg	470 UJ	374 U	427 U	399 U
Pentachlorophenol	ug/kg	470 U	374 U	427 U	399 U
Phenanthrene	ug/kg	470 UJ	374 U	427 U	399 U
Phenol	ug/kg	470 U	374 U	427 U	399 U
Pyrene	ug/kg	470 UJ	374 U	427 U	399 U
1,2,4-Trichlorobenzene	ug/kg	470 UJ	374 U	427 U	399 U
2,4,5-Trichlorophenol	ug/kg	470 U	374 U	427 U	399 U
2,4,6-Trichlorophenol	ug/kg	470 U	374 U	427 U	399 U

Analysis/ Analyte	Units	33-__	34-__	35-__	101-__
1 Cyanide, Total in Soil					
Cyanide	mg/kg	0.303	330	5.51	
1 Semi-Volatile Organic Compounds in Soil					
Acenaphthene	ug/kg	399 U	423 U	397 U	
Acenaphthylene	ug/kg	399 U	423 U	397 U	
Anthracene	ug/kg	399 U	423 U	397 U	
Benzo(a)anthracene	ug/kg	399 U	423 U	397 U	
Benzo(a)pyrene	ug/kg	399 U	423 U	397 U	
Benzo(b)fluoranthene	ug/kg	399 U	423 U	397 U	
Benzo(g,h,i)perylene	ug/kg	399 U	423 U	397 U	
Benzo(k)fluoranthene	ug/kg	399 U	423 U	397 U	
Benzoic acid	ug/kg	399 U	423 U	397 U	
Benzyl alcohol	ug/kg	399 U	423 U	397 U	
bis(2-Chloroethoxy)methane	ug/kg	399 U	423 U	397 U	
bis(2-Chloroethyl)ether	ug/kg	399 U	423 U	397 U	
bis(2-Chloroisopropyl)ether	ug/kg	399 U	423 U	397 U	
bis(2-Ethylhexyl)phthalate	ug/kg	399 U	423 U	397 U	
4-Bromophenyl-phenylether	ug/kg	399 U	423 U	397 U	
Butylbenzylphthalate	ug/kg	399 U	423 U	397 U	
Carbazole	ug/kg	399 U	423 U	397 U	
4-Chloro-3-methylphenol	ug/kg	399 U	423 U	397 U	
4-Chloroaniline	ug/kg	399 U	423 U	397 U	
2-Chloronaphthalene	ug/kg	399 U	423 U	397 U	
2-Chlorophenol	ug/kg	399 U	423 U	397 U	
4-Chlorophenyl-phenylether	ug/kg	399 U	423 U	397 U	
Chrysene	ug/kg	399 U	423 U	397 U	
Di-n-butylphthalate	ug/kg	399 U	423 U	397 U	
Di-n-octylphthalate	ug/kg	399 U	423 U	397 U	
Dibenz(a,h)anthracene	ug/kg	399 U	423 U	397 U	
Dibenzofuran	ug/kg	399 U	423 U	397 U	
1,2-Dichlorobenzene	ug/kg	399 U	423 U	397 U	
1,3-Dichlorobenzene	ug/kg	399 U	423 U	397 U	
1,4-Dichlorobenzene	ug/kg	399 U	423 U	397 U	
3,3'-Dichlorobenzidine	ug/kg	399 U	423 U	397 U	
2,4-Dichlorophenol	ug/kg	399 U	423 U	397 U	
Diethylphthalate	ug/kg	399 U	423 U	397 U	
2,4-Dimethylphenol	ug/kg	399 U	423 U	397 U	
Dimethylphthalate	ug/kg	399 U	423 U	397 U	
4,6-Dinitro-2-methylphenol	ug/kg	399 U	423 U	397 U	
2,4-Dinitrophenol	ug/kg	399 U	423 U	397 U	
2,4-Dinitrotoluene	ug/kg	399 U	423 U	397 U	
2,6-Dinitrotoluene	ug/kg	399 U	423 U	397 U	
Fluoranthene	ug/kg	399 U	423 U	397 U	
Fluorene	ug/kg	399 U	423 U	397 U	
Hexachlorobenzene	ug/kg	399 U	423 U	397 U	
Hexachlorobutadiene	ug/kg	399 U	423 U	397 U	

Analysis/ Analyte	Units	33-__	34-__	35-__	101-__
Hexachlorocyclopentadiene	ug/kg	399 U	423 U	397 U	
Hexachloroethane	ug/kg	399 U	423 U	397 U	
Indeno(1,2,3-cd)pyrene	ug/kg	399 U	423 U	397 U	
Isophorone	ug/kg	399 U	423 U	397 U	
2-Methylnaphthalene	ug/kg	399 U	423 U	397 U	
2-Methylphenol	ug/kg	399 U	423 U	397 U	
4-Methylphenol	ug/kg	399 U	423 U	397 U	
Naphthalene	ug/kg	399 U	423 U	397 U	
2-Nitroaniline	ug/kg	399 U	423 U	397 U	
3-Nitroaniline	ug/kg	399 U	423 U	397 U	
4-Nitroaniline	ug/kg	399 U	423 U	397 U	
Nitrobenzene	ug/kg	399 U	423 U	397 U	
2-Nitrophenol	ug/kg	399 U	423 U	397 U	
4-Nitrophenol	ug/kg	399 U	423 U	397 U	
N-nitroso-di-n-propylamine	ug/kg	399 U	423 U	397 U	
N-nitrosodiphenylamine	ug/kg	399 U	423 U	397 U	
Pentachlorophenol	ug/kg	399 U	423 U	397 U	
Phenanthrene	ug/kg	399 U	423 U	397 U	
Phenol	ug/kg	399 U	423 U	397 U	
Pyrene	ug/kg	399 U	423 U	397 U	
1,2,4-Trichlorobenzene	ug/kg	399 U	423 U	397 U	
2,4,5-Trichlorophenol	ug/kg	399 U	423 U	397 U	
2,4,6-Trichlorophenol	ug/kg	399 U	423 U	397 U	
1 Cyanide, Total in Water					
Cyanide	mg/L				0.009 U
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L				10 U
Acenaphthylene	ug/L				10 U
Anthracene	ug/L				10 U
Benzo(a)anthracene	ug/L				10 U
Benzo(a)pyrene	ug/L				10 U
Benzo(b)fluoranthene	ug/L				10 U
Benzo(g,h,i)perylene	ug/L				10 U
Benzo(k)fluoranthene	ug/L				10 U
Benzoic acid	ug/L				10 U
Benzyl alcohol	ug/L				10 U
bis(2-Chloroethoxy)methane	ug/L				10 U
bis(2-Chloroethyl)ether	ug/L				10 U
bis(2-Chloroisopropyl)ether	ug/L				10 U
bis(2-Ethylhexyl)phthalate	ug/L				10 U
4-Bromophenyl-phenylether	ug/L				10 U
Butylbenzylphthalate	ug/L				10 U
Carbazole	ug/L				10 U
4-Chloro-3-methylphenol	ug/L				10 U
4-Chloroaniline	ug/L				10 U

Analysis/ Analyte	Units	33-__	34-__	35-__	101-__
2-Chloronaphthalene	ug/L				10 U
2-Chlorophenol	ug/L				10 U
4-Chlorophenyl-phenylether	ug/L				10 U
Chrysene	ug/L				10 U
Di-n-butylphthalate	ug/L				10 U
Di-n-octylphthalate	ug/L				10 U
Dibenz(a,h)anthracene	ug/L				10 U
Dibenzofuran	ug/L				10 U
1,2-Dichlorobenzene	ug/L				10 U
1,3-Dichlorobenzene	ug/L				10 U
1,4-Dichlorobenzene	ug/L				10 U
3,3'-Dichlorobenzidine	ug/L				N/A R
2,4-Dichlorophenol	ug/L				10 U
Diethylphthalate	ug/L				10 U
2,4-Dimethylphenol	ug/L				10 UJ
Dimethylphthalate	ug/L				10 U
4,6-Dinitro-2-methylphenol	ug/L				10 U
2,4-Dinitrophenol	ug/L				10 U
2,4-Dinitrotoluene	ug/L				10 U
2,6-Dinitrotoluene	ug/L				10 U
Fluoranthene	ug/L				10 U
Fluorene	ug/L				10 U
Hexachlorobenzene	ug/L				10 U
Hexachlorobutadiene	ug/L				10 U
Hexachlorocyclopentadiene	ug/L				10 U
Hexachloroethane	ug/L				10 U
Indeno(1,2,3-cd)pyrene	ug/L				10 U
Isophorone	ug/L				10 U
2-Methylnaphthalene	ug/L				10 U
2-Methylphenol	ug/L				10 U
4-Methylphenol	ug/L				10 U
Naphthalene	ug/L				10 U
2-Nitroaniline	ug/L				10 U
3-Nitroaniline	ug/L				N/A R
4-Nitroaniline	ug/L				10 U
Nitrobenzene	ug/L				10 U
2-Nitrophenol	ug/L				10 U
4-Nitrophenol	ug/L				10 U
N-nitroso-di-n-propylamine	ug/L				10 U
N-nitrosodiphenylamine	ug/L				10 U
Pentachlorophenol	ug/L				10 U
Phenanthrene	ug/L				10 U
Phenol	ug/L				10 U
Pyrene	ug/L				10 U
1,2,4-Trichlorobenzene	ug/L				10 U

Analysis/ Analyte	Units	33-__	34-__	35-__	101-__
2,4,5-Trichlorophenol	ug/L				10 U
2,4,6-Trichlorophenol	ug/L				10 U

Analysis/ Analyte	Units	101-FD	102-__	103-__	105-__
1 Cyanide, Total in Water					
Cyanide	mg/L	0.0154	0.0379	90.4	0.092
1 Semi-Volatile Organic Compounds in Water					
Acenaphthene	ug/L		10 U		
Acenaphthylene	ug/L		10 U		
Anthracene	ug/L		10 U		
Benzo(a)anthracene	ug/L		10 U		
Benzo(a)pyrene	ug/L		10 U		
Benzo(b)fluoranthene	ug/L		10 U		
Benzo(g,h,i)perylene	ug/L		10 U		
Benzo(k)fluoranthene	ug/L		10 U		
Benzoic acid	ug/L		10 U		
Benzyl alcohol	ug/L		10 U		
bis(2-Chloroethoxy)methane	ug/L		10 U		
bis(2-Chloroethyl)ether	ug/L		10 U		
bis(2-Chloroisopropyl)ether	ug/L		10 U		
bis(2-Ethylhexyl)phthalate	ug/L		10 U		
4-Bromophenyl-phenylether	ug/L		10 U		
Butylbenzylphthalate	ug/L		10 U		
Carbazole	ug/L		10 U		
4-Chloro-3-methylphenol	ug/L		10 U		
4-Chloroaniline	ug/L		N/A R		
2-Chloronaphthalene	ug/L		10 U		
2-Chlorophenol	ug/L		10 U		
4-Chlorophenyl-phenylether	ug/L		10 U		
Chrysene	ug/L		10 U		
Di-n-butylphthalate	ug/L		10 U		
Di-n-octylphthalate	ug/L		10 U		
Dibenz(a,h)anthracene	ug/L		10 U		
Dibenzofuran	ug/L		10 U		
1,2-Dichlorobenzene	ug/L		10 U		
1,3-Dichlorobenzene	ug/L		10 U		
1,4-Dichlorobenzene	ug/L		10 U		
3,3'-Dichlorobenzidine	ug/L		N/A R		
2,4-Dichlorophenol	ug/L		10 U		
Diethylphthalate	ug/L		10 U		
2,4-Dimethylphenol	ug/L		10 UJ		
Dimethylphthalate	ug/L		10 U		
4,6-Dinitro-2-methylphenol	ug/L		10 U		
2,4-Dinitrophenol	ug/L		10 U		
2,4-Dinitrotoluene	ug/L		10 U		
2,6-Dinitrotoluene	ug/L		10 U		
Fluoranthene	ug/L		10 U		
Fluorene	ug/L		10 U		
Hexachlorobenzene	ug/L		10 U		
Hexachlorobutadiene	ug/L		10 U		

Analysis/ Analyte	Units	101-FD	102-__	103-__	105-__
Hexachlorocyclopentadiene	ug/L		10 U		
Hexachloroethane	ug/L		10 U		
Indeno(1,2,3-cd)pyrene	ug/L		10 U		
Isophorone	ug/L		10 U		
2-Methylnaphthalene	ug/L		10 U		
2-Methylphenol	ug/L		10 U		
4-Methylphenol	ug/L		10 U		
Naphthalene	ug/L		10 U		
2-Nitroaniline	ug/L		10 U		
3-Nitroaniline	ug/L		N/A R		
4-Nitroaniline	ug/L		10 U		
Nitrobenzene	ug/L		10 U		
2-Nitrophenol	ug/L		10 U		
4-Nitrophenol	ug/L		10 U		
N-nitroso-di-n-propylamine	ug/L		10 U		
N-nitrosodiphenylamine	ug/L		10 U		
Pentachlorophenol	ug/L		10 U		
Phenanthrene	ug/L		10 U		
Phenol	ug/L		10 U		
Pyrene	ug/L		10 U		
1,2,4-Trichlorobenzene	ug/L		10 U		
2,4,5-Trichlorophenol	ug/L		10 U		
2,4,6-Trichlorophenol	ug/L		10 U		

Analysis/ Analyte	Units	110-FB
1 Cyanide, Total in Water		
Cyanide	mg/L	0.0221
1 Semi-Volatile Organic Compounds in Water		
Acenaphthene	ug/L	10 U
Acenaphthylene	ug/L	10 U
Anthracene	ug/L	10 U
Benzo(a)anthracene	ug/L	10 U
Benzo(a)pyrene	ug/L	10 U
Benzo(b)fluoranthene	ug/L	10 U
Benzo(g,h,i)perylene	ug/L	10 U
Benzo(k)fluoranthene	ug/L	10 U
Benzoic acid	ug/L	10 U
Benzyl alcohol	ug/L	10 U
bis(2-Chloroethoxy)methane	ug/L	10 U
bis(2-Chloroethyl)ether	ug/L	10 U
bis(2-Chloroisopropyl)ether	ug/L	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U
4-Bromophenyl-phenylether	ug/L	10 U
Butylbenzylphthalate	ug/L	10 U
Carbazole	ug/L	10 U
4-Chloro-3-methylphenol	ug/L	10 U
4-Chloroaniline	ug/L	10 U
2-Chloronaphthalene	ug/L	10 U
2-Chlorophenol	ug/L	10 U
4-Chlorophenyl-phenylether	ug/L	10 U
Chrysene	ug/L	10 U
Di-n-butylphthalate	ug/L	10 U
Di-n-octylphthalate	ug/L	10 U
Dibenz(a,h)anthracene	ug/L	10 U
Dibenzofuran	ug/L	10 U
1,2-Dichlorobenzene	ug/L	10 U
1,3-Dichlorobenzene	ug/L	10 U
1,4-Dichlorobenzene	ug/L	10 U
3,3'-Dichlorobenzidine	ug/L	N/A R
2,4-Dichlorophenol	ug/L	10 U
Diethylphthalate	ug/L	10 U
2,4-Dimethylphenol	ug/L	10 UJ
Dimethylphthalate	ug/L	10 U
4,6-Dinitro-2-methylphenol	ug/L	10 U
2,4-Dinitrophenol	ug/L	10 U
2,4-Dinitrotoluene	ug/L	10 U
2,6-Dinitrotoluene	ug/L	10 U
Fluoranthene	ug/L	10 U
Fluorene	ug/L	10 U
Hexachlorobenzene	ug/L	10 U
Hexachlorobutadiene	ug/L	10 U

Analysis/ Analyte	Units	110-FB
Hexachlorocyclopentadiene	ug/L	10 U
Hexachloroethane	ug/L	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U
Isophorone	ug/L	10 U
2-Methylnaphthalene	ug/L	10 U
2-Methylphenol	ug/L	10 U
4-Methylphenol	ug/L	10 U
Naphthalene	ug/L	10 U
2-Nitroaniline	ug/L	10 U
3-Nitroaniline	ug/L	N/A R
4-Nitroaniline	ug/L	10 U
Nitrobenzene	ug/L	10 U
2-Nitrophenol	ug/L	10 U
4-Nitrophenol	ug/L	10 U
N-nitroso-di-n-propylamine	ug/L	10 U
N-nitrosodiphenylamine	ug/L	10 U
Pentachlorophenol	ug/L	10 U
Phenanthrene	ug/L	10 U
Phenol	ug/L	10 U
Pyrene	ug/L	10 U
1,2,4-Trichlorobenzene	ug/L	10 U
2,4,5-Trichlorophenol	ug/L	10 U
2,4,6-Trichlorophenol	ug/L	10 U

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

23 - 8/29/18

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S) (MONTH / DAY / YEAR)	SHEET
Dan Gravatt	C.W. Process	08 / 27 / 2018	1 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	8oz BOTTLE	BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7961-1		1					X				
7961-2		1					X				
7961-3		1					X				
7961-4		1					X				
7961-5		1					X				
7961-6		1					X				
7961-7		1					X				
7961-8		1					X				
7961-9		1					X				
7961-10		1					X				
7961-11		1					X				
7961-12		1					X				
7961-13		1					X				
7961-14		1					X				
7961-15		1					X				
7961-16		1					X				
7961-17		1					X				
7961-18		1					X				
7961-19		1					X				
7961-20		1					X				
7961-21		1					X				
☆ 7961-~~22~~ 22 FD	8/29/18	1					X				Field dup of 7961-21
7961-23		1					X				
☆ 7961-~~24~~ 24 FD	8/29/18	1					X				Field dup of 7961-23

DESCRIPTION OF SHIPMENT

46 CONTAINER(S) CONSISTING OF _____ CRATE(S)

2 ICE CHEST(S): OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER _____

X SAMPLER CONVEYED _____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[signature] SEALED UNSEALED	8/29/18	1445	[signature] SEALED UNSEALED	8/29/18	1445	[signature]
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) SEALED UNSEALED	DATE	TIME	RECEIVED BY SEALED UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY

WHITE ORIGINAL - EPA LAB • YELLOW - EPA PROJECT MANAGER

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S) (MONTH DAY YEAR)	SHEET
Dan Gravatt	C.W. Process	08 ~~21-24~~ 28 2018 ~ 8/28/18	2 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	1 L PLASTIC BOTTLE	8oz BOTTLE	8oz BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7961-25		1					X				
* 7961-26 FD 8/29/18		1					X				Fieldduplicate of 7961-25
7961-27		1					X				
7961-28		1					X				
7961-29		1					X				* alkalinity noted & omitted
7961-30		1					X				do PM DGI @ S/L. ~ 8/29/18
7961-31		1					X				
7961-32		1					X				
7961-33		1					X				
7961-34		1					X				
7961-35		1	→ 1/3 sediment in 1L bottle 8/29/18				X				
7961-101	1		1			X					No ascorbic acid needed for CN
7961-102	1		2			X					
7961-103	1	→ 1/2 sediment in bottle				X					
7961-104 FD 8/29/18						X					
7961-105	1	→ insufficient volume for CN analysis. ~ 8/29/18				X					
7961-110 FB	1		1			X					
		ASR COMPLETE									
	Missing on COC. 8/29/18										
											8/29/18
											* Chr. Zero Rec Dist, 6.8-18.4°C ~

DESCRIPTION OF SHIPMENT

4 5 8/29/18 CONTAINER(S) CONSISTING OF _____ CRATE(S)

2 ICE CHEST(S): OTHER _____

MODE OF SHIPMENT 8/29/18

_____ COMMERCIAL CARRIER _____

X SAMPLER CONVEYED _____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
D Gravatt ☐ SEALED UNSEALED	8/29	1445	Nicole Roby ☐ SEALED UNSEALED	8/29	1445	Analysis
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY

7-EPA-9262 (REV 4/17) WHITE ORIGINAL - EPA LAB • YELLOW - EPA PROJECT MANAGER

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 1 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-1-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #1, 0-1 foot depth

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: __ __ __ **Sample Collection: Start:** 08/21/18 14:58

Longitude: __ __ __ **End:** 08/21/18 15:00

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 2 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-2-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #1, 4-5 foot depth

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 14:58

Longitude: ___ ___ ___ **End:** 08/27/18 15:00

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 3 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-3-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole # 13, 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 15:20

Longitude: ___ ___ ___ **End:** 08/27/18 15:22

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

ollected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 4 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-4-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole #13, 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 06/27/18 15:20

Longitude: ___ ___ ___ **End:** 06/27/18 15:22

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 5 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-5-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole #11, 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 15:33

Longitude: ___ ___ ___ **End:** 08/27/18 15:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 6 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-6-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole #11, 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 15:33

Longitude: ___ ___ ___ **End:** 08/27/18 15:35

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 7 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-7-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #2, 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 16:07

Longitude: ___ ___ ___ **End:** 08/27/18 16:09

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 8 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-8-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #2, 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 16:07

Longitude: ___ ___ ___ **End:** 08/27/18 16:09

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 9 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-9-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #3 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 17:03

Longitude: ___ ___ ___ **End:** 08/27/18 17:05

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 10 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-10-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #3 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 17:03
Longitude: ___ ___ ___ **End:** 08/27/18 17:05

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 11 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-11-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #4, 0-1 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 17:33

Longitude: ___ ___ ___ **End:** 08/27/18 17:35

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 12 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-12-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #4, 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/27/18	17:33
Longitude: ___ ___ ___	**End:**	08/27/18	17:35

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 13 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-13-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #6, 0-1 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/27/18	18:07
Longitude: ___ ___ ___	**End:**	08/27/18	18:09

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 14 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-14-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #6, 4-5 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/27/18	18:07
Longitude: ___ ___ ___	**End:**	08/27/18	18:09

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 15 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-15-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #5, 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/27/18	18:36
Longitude: ___ ___ ___	**End:**	08/27/18	18:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 16 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-16-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #5, 4-5 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/27/18 18:36
Longitude: ___ ___ ___ **End:** 08/27/18 18:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 17 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-17-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #7, 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 06:54

Longitude: ___ ___ ___ **End:** 08/28/18 06:56

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 18 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-18-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #7, 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 06:54

Longitude: ___ ___ ___ **End:** 08/28/18 06:56

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 19 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-19-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #8 0-1 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 07:23

Longitude: ___ ___ ___ **End:** 08/28/18 07:25

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 20 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-20-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #8 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/28/18	07:23
Longitude: ___ ___ ___	**End:**	08/28/18	07:25

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 21 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-21-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 16 0-1 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 07:43

Longitude: ___ ___ ___ **End:** 08/28/18 07:45

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

8/29/18

ASR Number: 7961 **Sample Number:** ~~22~~ 21 **QC Code:** FD **Matrix:** Solid **Tag ID:** 7961-~~22~~ 21-FD

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 16 0-1 foot dup

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 07:43

Longitude: ___ ___ ___ **End:** 08/28/18 07:45

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 23 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-23-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 16 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/28/18	07:43
Longitude: ___ ___ ___	**End:**	08/28/18	07:45

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

8/29/18

ASR Number: 7961 **Sample Number:** ~~24~~ 23 **QC Code:** FD **Matrix:** Solid **Tag ID:** 7961-~~24~~ 23-FD

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 16 4-5 Foot dep

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/28/18	07:43
Longitude: ___ ___ ___	**End:**	08/28/18	07:45

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 25 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-25-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 15 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 07__:55

Longitude: ___ ___ ___ **End:** 08/28/18 07__:57

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

8/29/18

ASR Number: 7961 **Sample Number:** ~~26~~ 26 **QC Code:** FD **Matrix:** Solid **Tag ID:** 7961-~~26~~ 25 FD-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 15 0-1 foot dup

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 07:55

Longitude: ___ ___ ___ **End:** 08/28/18 07:57

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 27 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-27-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 15 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 07:55

Longitude: ___ ___ ___ **End:** 08/28/18 07:57

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 28 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-28-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 12 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low (Medium) High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 08:07

Longitude: ___ ___ ___ **End:** 08/28/18 08:09

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 29 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-29-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 12 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 08:07

Longitude: ___ ___ ___ **End:** 08/28/18 08:09

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 30 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-30-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 10 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/28/18	08:15
Longitude: ___ ___ ___	**End:**	08/28/18	08:17

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 31 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-31-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 10 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 08:15

Longitude: ___ ___ ___ **End:** 08/28/18 08:17

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28 Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 32 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-32-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 9, 0-1 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 08:28

Longitude: ___ ___ ___ **End:** 08/28/18 08:30

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 33 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-33-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 9, 4-5 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

Latitude: ___ ___ ___ **Sample Collection:** **Start:** 08/28/18 08:28
Longitude: ___ ___ ___ **End:** 08/28/18 08:30

Date **Time(24 hr)**

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 34 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-34-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 14, 0-1 Foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium (High)) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 08:48

Longitude: ___ ___ ___ **End:** 08/28/18 08:50

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 35 **QC Code:** __ **Matrix:** Solid **Tag ID:** 7961-35-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Hole 14, 4-5 foot

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium (High)) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 08:48

Longitude: ___ ___ ___ **End:** 08/28/18 08:50

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 8 oz glass	4 Deg C	14	Days	1 Semi-Volatile Organic Compounds in Soil
1 - 8 oz glass	4 Deg C	28	Days	1 Cyanide, Total in Soil

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 101 **QC Code:** __ **Matrix:** Water **Tag ID:** 7961-101-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #1

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 10:05

Longitude: ___ ___ ___ **End:** 08/28/18 12:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter plastic bottle	NaOH to pH >12	14 Days	1 Cyanide, Total in Water
1 - 80 oz amber glass	4 Deg C	7 Days	1 Semi-Volatile Organic Compounds in Water

Sample Comments:

(N/A)

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

8/29/18

ASR Number: 7961 **Sample Number:** ~~104~~ 101 **QC Code:** FD **Matrix:** Water **Tag ID:** 7961-~~104~~ 101-FD

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #1 dup, cyanide only due to very low yield

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/28/18	12:58
Longitude: ___ ___ ___	**End:**	08/28/18	13:03

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter plastic bottle	NaOH to pH >12	14 Days	1 Cyanide, Total in Water
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7 Days~~	~~1 Semi-Volatile Organic Compounds in Water~~

Sample Comments:

(N/A)

Deleted DG 8/29/18

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 102 **QC Code:** __ **Matrix:** Water **Tag ID:** 7961-102-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #2

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 10:45

Longitude: ___ ___ ___ **End:** 08/28/18 ~~10:32~~ 1422

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	NaOH to pH >12	14	Days	1 Cyanide, Total in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water

2

Sample Comments:

(N/A)
8/29/18

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 103 **QC Code:** __ **Matrix:** Water **Tag ID:** 7961-103-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #4

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 11:32

Longitude: ___ ___ ___ **End:** 08/28/18 11:39

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter plastic bottle	NaOH to pH >12	14 Days	1 Cyanide, Total in Water
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7 Days~~	~~1 Semi Volatile Organic Compounds in Water~~

Sample Comments:

(N/A)

Delete per DS 8/29/18

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 105 **QC Code:** __ **Matrix:** Water **Tag ID:** 7961-105-__

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Well #3, cyanide only due to very low yield

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: ___ ___ ___	**Sample Collection: Start:**	08/28/18	11:00
Longitude: ___ ___ ___	**End:**	08/28/18	13:30

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 1 Liter plastic bottle	NaOH to pH >12	14 Days	1 Cyanide, Total in Water
~~1 - 80 oz amber glass~~	~~4 Deg C~~	~~7 Days~~	~~1 Semi-Volatile Organic Compounds in Water~~

Sample Comments:

(N/A)

Delete per DG 8/29/18

Sample Collected By: AWMD

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 7961 **Sample Number:** 110 **QC Code:** FB **Matrix:** Water **Tag ID:** 7961-110-FB

Project ID: CW PROCESS **Project Manager:** Dan Gravatt
Project Desc: Phase 2 RCRA sampling of soil and groundwater
City: Cedar Rapids **State:** Iowa
Program: RCRA Corrective Action

Location Desc: Field Blank sample

Storet ID: _____ **External Sample Number:** _____

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: ___ ___ ___ **Sample Collection: Start:** 08/28/18 08:40

Longitude: ___ ___ ___ **End:** 08/28/18 08:47

Laboratory Analyses:

Container	Preservative	Holding Time		Analysis
1 - 1 Liter plastic bottle	NaOH to pH >12	14	Days	1 Cyanide, Total in Water
1 - 80 oz amber glass	4 Deg C	7	Days	1 Semi-Volatile Organic Compounds in Water

Sample Comments:

Prepared by the LTAB staff with SuperQ water.

Sample Collected By: AWMD

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921805.D
Acq On : 21 Sep 2018 13:55
Operator : PEK
Sample : 004144-01 (7961-1)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.91	87.6	ug/Kg	7298	1	7.55	55551	666.7
2-Pentanone, 4-hy...	5.24	7103.0	ug/Kg	591868	1	7.55	55551	666.7
Nitrobenzene-D5	8.39	96.0	ug/Kg	8003	1	7.55	55551	666.7
2-Butene-1,4-diol...	10.06	136.6	ug/Kg	15924	2	9.53	77729	666.7
1,1'-Biphenyl, 2-...	11.30	58.0	ug/Kg	8318	3	12.46	95625	666.7
1,6-Anhydro-.beta...	12.36	650.8	ug/Kg	93342	3	12.46	95625	666.7
2,6,10,14,18,22-T...	24.79	149.7	ug/Kg	19523	6	25.69	86938	666.7
1,2,4,8-Tetrameth...	28.36	474.3	ug/Kg	61856	6	25.69	86938	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921806.D
Acq On : 21 Sep 2018 14:36
Operator : PEK
Sample : 004144-02 (7961-2)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| |#	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.91	97.8	ug/Kg	8145	1	7.55	55531	666.7
2-Pentanone, 4-hy...	5.24	7424.8	ug/Kg	618454	1	7.55	55531	666.7
2H-Pyran-2-one, t...	10.06	320.9	ug/Kg	37487	2	9.53	77885	666.7
1,1'-Biphenyl, 2-...	11.30	87.2	ug/Kg	13962	3	12.46	106743	666.7
1,6-Anhydro-.beta...	12.38	1381.0	ug/Kg	221122	3	12.46	106743	666.7
Butane, 1-chloro-...	13.18	38.9	ug/Kg	6236	3	12.46	106743	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921809.D
Acq On : 21 Sep 2018 16:39
Operator : PEK
Sample : 004144-03 (7961-3)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.91	140.1	ug/Kg	8969	1	7.55	42688	666.7
2-Pentanone, 4-hy...	5.24	10250.1	ug/Kg	656333	1	7.55	42688	666.7
1,4-Dichlorobenze...	7.78	250.1	ug/Kg	16015	1	7.55	42688	666.7
2-Butene-1,4-diol...	10.06	198.8	ug/Kg	18154	2	9.53	60889	666.7
Phthalic anhydride	10.78	201.3	ug/Kg	18383	2	9.53	60889	666.7
1,6-Anhydro-.beta...	12.36	424.7	ug/Kg	46887	3	12.46	73597	666.7
n-Hexadecanoic acid	16.02	127.2	ug/Kg	13936	4	15.04	73067	666.7
Isoquinoline-1-ca...	17.45	68.7	ug/Kg	7527	4	15.04	73067	666.7
Benzyl butyl phth...	19.12	89.5	ug/Kg	8691	5	20.90	64718	666.7
2,6,10,14,18,22-T...	24.78	181.5	ug/Kg	17855	6	25.70	65583	666.7
Eicosane, 7-hexyl-	25.48	238.4	ug/Kg	23451	6	25.70	65583	666.7
Methoxyacetic aci...	26.88	406.9	ug/Kg	40033	6	25.70	65583	666.7
Naphthalene, 1,2,...	28.36	436.7	ug/Kg	42957	6	25.70	65583	666.7
6S-2,3,8,8-Tetram...	28.61	149.0	ug/Kg	14658	6	25.70	65583	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921810.D
Acq On : 21 Sep 2018 17:20
Operator : PEK
Sample : 004144-04 (7961-4)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	93.9	ug/Kg	7387	1	7.55	52445	666.7
2-Pentanone, 4-hy...	5.24	7264.6	ug/Kg	571482	1	7.55	52445	666.7
2-Butene-1,4-diol...	10.06	171.9	ug/Kg	18899	2	9.53	73274	666.7
1,1'-Biphenyl, 2-...	11.30	74.9	ug/Kg	10060	3	12.46	89496	666.7
1,6-Anhydro-.beta...	12.36	849.9	ug/Kg	114093	3	12.46	89496	666.7
2,6,10,14,18-Pent...	24.79	117.5	ug/Kg	14565	6	25.70	82669	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921811.D
Acq On : 21 Sep 2018 18:00
Operator : PEK
Sample : 004144-05 (7961-5)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	132.4	ug/Kg	11129	1	7.55	56056	666.7
2-Pentanone, 4-hy...	5.24	9121.8	ug/Kg	766990	1	7.55	56056	666.7
2H-Pyran-2-one, t...	10.06	302.7	ug/Kg	35716	2	9.53	78654	666.7
1,6-Anhydro-.beta...	12.37	1241.8	ug/Kg	192173	3	12.46	103167	666.7
n-Hexadecanoic acid	16.02	186.7	ug/Kg	26560	4	15.04	94850	666.7
2,6,10,14,18,22-T...	24.79	148.8	ug/Kg	17606	6	25.70	78869	666.7
Heptadecane	25.48	141.2	ug/Kg	16703	6	25.70	78869	666.7
Tetratriacontane	26.88	165.5	ug/Kg	19580	6	25.70	78869	666.7
1,1,4a-Trimethyl-...	28.36	903.4	ug/Kg	106877	6	25.70	78869	666.7
6,10,14-Trimethyl...	28.53	85.7	ug/Kg	10138	6	25.70	78869	666.7
Naphthalene, 1,2,...	28.61	385.5	ug/Kg	45605	6	25.70	78869	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921812.D
Acq On : 21 Sep 2018 18:41
Operator : PEK
Sample : 004144-06 (7961-6)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	126.4	ug/Kg	9599	1	7.55	50638	666.7
2-Pentanone, 4-hy...	5.24	8042.3	ug/Kg	610864	1	7.55	50638	666.7
Propenal dimethyl...	10.06	94.1	ug/Kg	10047	2	9.53	71159	666.7
1,1'-Biphenyl, 2-...	11.30	113.3	ug/Kg	13685	3	12.46	80528	666.7
1,6-Anhydro-.beta...	12.34	135.6	ug/Kg	16380	3	12.46	80528	666.7
2,6,10,14,18,22-T...	24.79	154.3	ug/Kg	16625	6	25.70	71827	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921813.D
Acq On : 21 Sep 2018 19:21
Operator : PEK
Sample : 004144-07 (7961-7)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.91	131.6	ug/Kg	10258	1	7.55	51980	666.7
2-Pentanone, 4-hy...	5.24	9045.4	ug/Kg	705268	1	7.55	51980	666.7
2-Butene-1,4-diol...	10.06	177.0	ug/Kg	19300	2	9.53	72688	666.7
1,6-Anhydro-.beta...	12.35	383.1	ug/Kg	49358	3	12.46	85882	666.7
Ethanol, 2-(dodec...	25.48	67.5	ug/Kg	7707	6	25.70	76074	666.7
Octadecane, 1-chl...	26.88	114.7	ug/Kg	13085	6	25.70	76074	666.7
1,2,4,8-Tetrameth...	28.36	1396.6	ug/Kg	159365	6	25.70	76074	666.7
Cedrene-V6	28.61	228.0	ug/Kg	26019	6	25.70	76074	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921814.D
Acq On : 21 Sep 2018 20:01
Operator : PEK
Sample : 004144-08 (7961-8)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	114.9	ug/Kg	9828	1	7.55	57036	666.7
2-Pentanone, 4-hy...	5.24	8475.6	ug/Kg	725121	1	7.55	57036	666.7
2-Butene-1,4-diol...	10.06	149.1	ug/Kg	17781	2	9.53	79478	666.7
1,1'-Biphenyl, 2-...	11.30	121.8	ug/Kg	17004	3	12.46	93107	666.7
1,6-Anhydro-.beta...	12.34	292.3	ug/Kg	40816	3	12.46	93107	666.7
1,4-Dimethyl-8-is...	28.36	286.1	ug/Kg	37521	6	25.70	87424	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921815.D
Acq On : 21 Sep 2018 20:41
Operator : PEK
Sample : 004144-09 (7961-9)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.91	111.6	ug/Kg	8809	1	7.55	52639	666.7
2-Pentanone, 4-hy...	5.24	7325.7	ug/Kg	578420	1	7.55	52639	666.7
2-Butene-1,4-diol...	10.06	125.4	ug/Kg	13955	2	9.53	74209	666.7
1,6-Anhydro-.beta...	12.34	271.2	ug/Kg	34921	3	12.46	85856	666.7
n-Hexadecanoic acid	16.02	138.4	ug/Kg	18563	4	15.04	89440	666.7
Cyclopropane, 1,1...	17.27	69.5	ug/Kg	9328	4	15.04	89440	666.7
1-Bromodocosane	26.88	117.9	ug/Kg	13551	6	25.69	76653	666.7
Naphthalene, 1,2,...	28.35	499.4	ug/Kg	57423	6	25.69	76653	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092118\
Data File : E0921816.D
Acq On : 21 Sep 2018 21:21
Operator : PEK
Sample : 004144-10 (7961-10)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.91	136.7	ug/Kg	10132	1	7.55	49404	666.7
2-Pentanone, 4-hy...	5.24	9842.8	ug/Kg	729405	1	7.55	49404	666.7
Nitrobenzene-D5	8.39	125.3	ug/Kg	9282	1	7.55	49404	666.7
2-Butene-1,4-diol...	10.06	234.4	ug/Kg	24092	2	9.52	68526	666.7
1,1'-Biphenyl, 2-...	11.31	86.0	ug/Kg	11021	3	12.46	85463	666.7
1,6-Anhydro-.beta...	12.36	1061.9	ug/Kg	136134	3	12.46	85463	666.7
1H-Cycloprop[e]az...	28.36	335.6	ug/Kg	34898	6	25.70	69322	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922804.D
Acq On : 22 Sep 2018 12:22
Operator : PEK
Sample : 004144-11 (7961-11)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	80.8	ug/Kg	6197	1	7.55	51152	666.7
2-Pentanone, 4-hy...	5.23	7171.0	ug/Kg	550214	1	7.55	51152	666.7
Aziridine, 2-ethyl-	10.05	259.8	ug/Kg	27643	2	9.52	70923	666.7
1,6-Anhydro-.beta...	12.37	1319.2	ug/Kg	170015	3	12.45	85922	666.7
1,4-Dimethyl-8-is...	28.35	525.1	ug/Kg	54341	6	25.69	68995	666.7
Naphthalene, 1,2,...	28.60	145.9	ug/Kg	15102	6	25.69	68995	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922805.D
Acq On : 22 Sep 2018 13:02
Operator : PEK
Sample : 004144-12 (7961-12)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.90	108.6	ug/Kg	8427	1	7.55	51721	666.7
2-Pentanone, 4-hy...	5.24	8290.6	ug/Kg	643191	1	7.55	51721	666.7
Nitrobenzene-D5	8.38	122.0	ug/Kg	9466	1	7.55	51721	666.7
2H-Pyran-2-one, t...	10.05	96.3	ug/Kg	10122	2	9.52	70092	666.7
1,1'-Biphenyl, 2-...	11.30	94.5	ug/Kg	11094	3	12.45	78286	666.7
1,6-Anhydro-.beta...	12.34	162.4	ug/Kg	19067	3	12.45	78286	666.7
Squalene	24.78	91.7	ug/Kg	9660	6	25.69	70194	666.7
2H-Cyclopentacycl...	28.34	246.9	ug/Kg	26000	6	25.69	70194	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922806.D
Acq On : 22 Sep 2018 13:42
Operator : PEK
Sample : 004144-13 (7961-13)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	81.8	ug/Kg	6739	1	7.55	54903	666.7
2-Pentanone, 4-hy...	5.23	6767.3	ug/Kg	557318	1	7.55	54903	666.7
2H-Pyran-2-one, t...	10.05	296.6	ug/Kg	34106	2	9.52	76664	666.7
1,1'-Biphenyl, 4-...	11.30	67.9	ug/Kg	9349	3	12.45	91853	666.7
D-Allose	12.37	1475.8	ug/Kg	203336	3	12.45	91853	666.7
Azetidine, 1-methyl-	13.17	45.6	ug/Kg	6277	3	12.45	91853	666.7
Naphthalene, 1,2,...	28.35	504.1	ug/Kg	57575	6	25.68	76143	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922807.D
Acq On : 22 Sep 2018 14:22
Operator : PEK
Sample : 004144-14 (7961-14)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.90	88.4	ug/Kg	6793	1	7.55	51212	666.7
2-Pentanone, 4-hy...	5.23	7480.8	ug/Kg	574659	1	7.55	51212	666.7
Aziridine, 2-ethyl-	10.05	125.5	ug/Kg	13304	2	9.52	70650	666.7
1,1'-Biphenyl, 2-...	11.30	145.1	ug/Kg	17024	3	12.45	78192	666.7
1,6-Anhydro-.beta...	12.34	243.6	ug/Kg	28566	3	12.45	78192	666.7
Naphthalene, 1,2,...	28.35	135.0	ug/Kg	13998	6	25.69	69133	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922808.D
Acq On : 22 Sep 2018 15:02
Operator : PEK
Sample : 004144-15 (7961-15)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	70.4	ug/Kg	5668	1	7.55	53649	666.7
2-Pentanone, 4-hy...	5.23	5965.6	ug/Kg	480069	1	7.55	53649	666.7
1,4-Dichlorobenze...	7.78	83.6	ug/Kg	6730	1	7.55	53649	666.7
2-Butene-1,4-diol...	10.05	130.1	ug/Kg	14449	2	9.52	74019	666.7
1,6-Anhydro-.beta...	12.34	246.4	ug/Kg	30706	3	12.45	83073	666.7
Decane, 1-iodo-	26.88	42.5	ug/Kg	4910	6	25.69	76934	666.7
Naphthalene, 1,2,...	28.35	370.5	ug/Kg	42751	6	25.69	76934	666.7
Naphthalene, 1,2,...	28.60	247.7	ug/Kg	28587	6	25.69	76934	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922809.D
Acq On : 22 Sep 2018 15:42
Operator : PEK
Sample : 004144-16 (7961-16)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
Hydroperoxide, 1-...	4.90	81.6	ug/Kg	6328	1	7.55	51715	666.7
2-Pentanone, 4-hy...	5.23	6685.4	ug/Kg	518601	1	7.55	51715	666.7
Ethane, 1,1,2,2-t...	6.34	72.4	ug/Kg	5617	1	7.55	51715	666.7
Nitrobenzene-D5	8.39	121.4	ug/Kg	9417	1	7.55	51715	666.7
2-Butene-1,4-diol...	10.05	158.2	ug/Kg	16888	2	9.52	71164	666.7
1,1'-Biphenyl, 2-...	11.30	86.7	ug/Kg	10646	3	12.45	81907	666.7
1,6-Anhydro-.beta...	12.35	743.5	ug/Kg	91352	3	12.45	81907	666.7
Naphthalene, deca...	28.35	124.2	ug/Kg	12891	6	25.69	69181	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922810.D
Acq On : 22 Sep 2018 16:23
Operator : PEK
Sample : 004144-17 (7961-17)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	64.6	ug/Kg	5167	1	7.55	53348	666.7
2-Pentanone, 4-hy...	5.23	5980.0	ug/Kg	478529	1	7.55	53348	666.7
Nitrobenzene-D5	8.38	105.7	ug/Kg	8456	1	7.55	53348	666.7
2-Butene-1,4-diol...	10.05	229.4	ug/Kg	25419	2	9.52	73862	666.7
1,1'-Biphenyl, 2-...	11.30	87.7	ug/Kg	11387	3	12.45	86599	666.7
1,6-Anhydro-.beta...	12.36	1095.1	ug/Kg	142252	3	12.45	86599	666.7
Squalene	24.78	82.7	ug/Kg	9211	6	25.69	74210	666.7
1,2,4,8-Tetrameth...	28.35	364.6	ug/Kg	40588	6	25.69	74210	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922811.D
Acq On : 22 Sep 2018 17:03
Operator : PEK
Sample : 004144-18 (7961-18)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.90	66.3	ug/Kg	5116	1	7.55	51437	666.7
2-Pentanone, 4-hy...	5.23	5992.2	ug/Kg	462326	1	7.55	51437	666.7
Nitrobenzene-D5	8.39	73.2	ug/Kg	5648	1	7.55	51437	666.7
Aziridine, 2-ethyl-	10.05	115.5	ug/Kg	12369	2	9.52	71380	666.7
1,1'-Biphenyl, 2-...	11.30	61.1	ug/Kg	7255	3	12.45	79137	666.7
1,6-Anhydro-.beta...	12.34	158.4	ug/Kg	18798	3	12.45	79137	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922812.D
Acq On : 22 Sep 2018 17:43
Operator : PEK
Sample : 004144-19 (7961-19)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
Hydroperoxide, 1-...	4.90	70.2	ug/Kg	5251	1	7.55	49877	666.7
2-Pentanone, 4-hy...	5.23	6328.3	ug/Kg	473449	1	7.55	49877	666.7
2-Butene-1,4-diol...	10.06	123.0	ug/Kg	12693	2	9.52	68788	666.7
1,6-Anhydro-.beta...	12.34	196.6	ug/Kg	22303	3	12.45	75628	666.7
Cyclopropanecarbo...	13.70	65.3	ug/Kg	7404	3	12.45	75628	666.7
Farnesol isomer a	24.78	55.9	ug/Kg	6076	6	25.68	72460	666.7
1,2,4,8-Tetrameth...	28.35	563.2	ug/Kg	61213	6	25.68	72460	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092218\
Data File : E0922813.D
Acq On : 22 Sep 2018 18:23
Operator : PEK
Sample : 004144-20 (7961-20)
Misc : B10951 AG-5 8270 SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.90	74.6	ug/Kg	5937	1	7.55	53029	666.7
2-Pentanone, 4-hy...	5.23	6455.1	ug/Kg	513463	1	7.55	53029	666.7
Nitrobenzene-D5	8.39	76.9	ug/Kg	6120	1	7.55	53029	666.7
Aziridine, 2-ethyl-	10.05	122.8	ug/Kg	13586	2	9.52	73779	666.7
1,1'-Biphenyl, 2-...	11.30	152.6	ug/Kg	19361	3	12.45	84564	666.7
1,6-Anhydro-.beta...	12.34	635.1	ug/Kg	80555	3	12.45	84564	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923805.D
Acq On : 23 Sep 2018 11:51
Operator : PEK
Sample : 004145-01 (7961-21)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	67.5	ug/Kg	5449	1	7.55	53848	666.7
2-Pentanone, 4-hy...	5.23	5889.8	ug/Kg	475731	1	7.55	53848	666.7
Ethane, 1,1,2,2-t...	6.33	78.1	ug/Kg	6310	1	7.55	53848	666.7
1,4-Dichlorobenze...	7.78	399.1	ug/Kg	32239	1	7.55	53848	666.7
Decane, 2-methyl-	13.62	93.6	ug/Kg	11566	3	12.45	82404	666.7
Pentadecane, 2,6,...	14.09	1042.9	ug/Kg	103583	4	15.04	66213	666.7
2-Bromo dodecane	14.91	1659.1	ug/Kg	164779	4	15.04	66213	666.7
2,5,5,8a-Tetramet...	28.35	666.7	ug/Kg	73395	6	25.70	73395	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923806.D
Acq On : 23 Sep 2018 12:31
Operator : PEK
Sample : 004145-02 (7961-21FD)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| |#	RT	Resp	Conc|
2-Pentanone, 4-hy...	5.23	5333.3	ug/Kg	413645	1	7.55	51706	666.7
1,4-Dichlorobenze...	7.78	308.0	ug/Kg	23888	1	7.55	51706	666.7
1-Butanamine, N-s...	10.06	112.7	ug/Kg	12411	2	9.52	73413	666.7
D-Allose	12.35	669.8	ug/Kg	88285	3	12.45	87869	666.7
Pentadecane, 2,6,...	13.62	131.5	ug/Kg	17334	3	12.45	87869	666.7
Pentadecane, 2,6,...	14.09	1053.1	ug/Kg	95880	4	15.04	60697	666.7
Hexadecane, 2,6,1...	14.91	2032.9	ug/Kg	185087	4	15.04	60697	666.7
1,2,4,8-Tetrameth...	28.36	666.7	ug/Kg	95867	6	25.70	95867	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923807.D
Acq On : 23 Sep 2018 13:12
Operator : PEK
Sample : 004145-03 (7961-23)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
Hydroperoxide, 1-...	4.90	73.2	ug/Kg	4911	1	7.55	44738	666.7
2-Pentanone, 4-hy...	5.23	5862.8	ug/Kg	393433	1	7.55	44738	666.7
Ethane, 1,1,2,2-t...	6.33	77.9	ug/Kg	5228	1	7.55	44738	666.7
1,2-Dichlorobenze...	7.78	161.0	ug/Kg	10806	1	7.55	44738	666.7
Neopentylidenecyc...	24.78	59.0	ug/Kg	6435	6	25.69	72690	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923808.D
Acq On : 23 Sep 2018 13:52
Operator : PEK
Sample : 004145-04 (7961-23FD)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	100.3	ug/Kg	6680	1	7.55	44404	666.7
2-Pentanone, 4-hy...	5.23	7657.7	ug/Kg	510049	1	7.55	44404	666.7
1,4-Dichlorobenze...	7.78	110.4	ug/Kg	7356	1	7.55	44404	666.7
2H-Pyran-2-one, t...	10.05	154.5	ug/Kg	14493	2	9.52	62525	666.7
1,6-Anhydro-.beta...	12.35	888.3	ug/Kg	98696	3	12.45	74071	666.7
Propane, 2,2'-oxy...	18.85	154.4	ug/Kg	15349	5	20.89	66259	666.7
2,2-Dimethyl-3-(3...	24.78	61.9	ug/Kg	7136	6	25.69	76888	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923809.D
Acq On : 23 Sep 2018 14:33
Operator : PEK
Sample : 004145-05 (7961-25)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	84.4	ug/Kg	5193	1	7.55	41022	666.7
2-Pentanone, 4-hy...	5.23	7355.2	ug/Kg	452583	1	7.55	41022	666.7
Ethane, 1,1,2,2-t...	6.34	108.6	ug/Kg	6681	1	7.55	41022	666.7
1,4-Dichlorobenze...	7.78	223.2	ug/Kg	13735	1	7.55	41022	666.7
2-Butene-1,4-diol...	10.05	199.9	ug/Kg	17435	2	9.52	58133	666.7
1,6-Anhydro-.beta...	12.35	1181.5	ug/Kg	119547	3	12.45	67456	666.7
5,9,13-Pentadecat...	24.78	57.7	ug/Kg	6236	6	25.69	72079	666.7
1-Iodo-2-methylno...	25.47	57.1	ug/Kg	6170	6	25.69	72079	666.7
Octadecanenitrile	26.89	44.4	ug/Kg	4799	6	25.69	72079	666.7
Naphthalene, 1,2,...	28.35	651.5	ug/Kg	70434	6	25.69	72079	666.7
Naphthalene, 1,2,...	28.61	339.4	ug/Kg	36690	6	25.69	72079	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923810.D
Acq On : 23 Sep 2018 15:13
Operator : PEK
Sample : 004145-06 (7961-25FD)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
Ethylamine	4.90	104.2	ug/Kg	5541	1	7.55	35445	666.7
2-Pentanone, 4-hy...	5.23	8349.6	ug/Kg	443926	1	7.55	35445	666.7
1,4-Dichlorobenze...	7.78	168.4	ug/Kg	8953	1	7.55	35445	666.7
Aziridine, 2-ethyl-	10.05	282.5	ug/Kg	20932	2	9.52	49397	666.7
1,6-Anhydro-.beta...	12.36	1627.8	ug/Kg	143682	3	12.45	58847	666.7
N-Ethylformamide	13.16	53.2	ug/Kg	4699	3	12.45	58847	666.7
2,6-Octadien-1-ol...	24.78	86.2	ug/Kg	7609	6	25.69	58820	666.7
Nonane, 1-iodo-	25.47	57.2	ug/Kg	5047	6	25.69	58820	666.7
Naphthalene, 1,2,...	28.35	968.2	ug/Kg	85423	6	25.69	58820	666.7
Thujopsene-I3	28.60	516.9	ug/Kg	45607	6	25.69	58820	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923811.D
Acq On : 23 Sep 2018 15:54
Operator : PEK
Sample : 004145-07 (7961-27)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	86.8	ug/Kg	6114	1	7.55	46967	666.7
2-Pentanone, 4-hy...	5.23	7186.3	ug/Kg	506277	1	7.55	46967	666.7
Ethane, 1,1,2,2-t...	6.33	110.0	ug/Kg	7749	1	7.55	46967	666.7
Naphthalene, deca...	28.35	324.4	ug/Kg	35605	6	25.69	73180	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923812.D
Acq On : 23 Sep 2018 16:34
Operator : PEK
Sample : 004145-08 (7961-28)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| |#	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	85.7	ug/Kg	5476	1	7.55	42600	666.7
2-Pentanone, 4-hy...	5.23	7289.9	ug/Kg	465825	1	7.55	42600	666.7
1,2-Dichlorobenze...	7.78	118.5	ug/Kg	7571	1	7.55	42600	666.7
(-)-Tricyclo[6.2....	28.36	1117.4	ug/Kg	109738	6	25.69	65475	666.7
6S-2,3,8,8-Tetram...	28.61	204.2	ug/Kg	20051	6	25.69	65475	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923815.D
Acq On : 23 Sep 2018 18:35
Operator : PEK
Sample : 004145-09 (7961-29)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
Glycerin	3.67	117.0	ug/Kg	8411	1	7.55	47933	666.7
4-Penten-2-one	4.90	71.3	ug/Kg	5125	1	7.55	47933	666.7
2-Pentanone, 4-hy...	5.23	5846.8	ug/Kg	420379	1	7.55	47933	666.7
Nitrobenzene-D5	8.39	58.6	ug/Kg	4210	1	7.55	47933	666.7
2-Butene-1,4-diol...	10.05	252.3	ug/Kg	24917	2	9.52	65851	666.7
1,1'-Biphenyl, 2-...	11.30	85.5	ug/Kg	9950	3	12.45	77601	666.7
1,6-Anhydro-.beta...	12.36	1492.7	ug/Kg	173749	3	12.45	77601	666.7
Sulfur	12.95	494.1	ug/Kg	57515	3	12.45	77601	666.7
Guanidine, methyl-	13.17	59.4	ug/Kg	6912	3	12.45	77601	666.7
n-Hexadecanoic acid	16.01	71.0	ug/Kg	8459	4	15.03	79411	666.7
.beta.-d-Mannofur...	24.78	93.5	ug/Kg	10804	6	25.69	77036	666.7
1,4-Dimethyl-8-is...	28.35	995.4	ug/Kg	115020	6	25.69	77036	666.7
1,2,4,8-Tetrameth...	28.61	364.0	ug/Kg	42065	6	25.69	77036	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092318\
Data File : E0923816.D
Acq On : 23 Sep 2018 19:15
Operator : PEK
Sample : 004145-10 (7961-30)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	120.2	ug/Kg	7488	1	7.55	41529	666.7
2-Pentanone, 4-hy...	5.23	8962.5	ug/Kg	558300	1	7.55	41529	666.7
1,4-Dichlorobenze...	7.78	93.4	ug/Kg	5818	1	7.55	41529	666.7
2-Butene-1,4-diol...	10.05	156.1	ug/Kg	13419	2	9.52	57322	666.7
1,6-Anhydro-.beta...	12.35	979.7	ug/Kg	95429	3	12.45	64937	666.7
2,6,10,14,18-Pent...	24.78	83.7	ug/Kg	8186	6	25.69	65239	666.7
1,4-Dimethyl-8-is...	28.35	694.3	ug/Kg	67946	6	25.69	65239	666.7
1-Hydroxy-1,7-dim...	28.60	147.8	ug/Kg	14463	6	25.69	65239	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092418\
Data File : E0924804.D
Acq On : 24 Sep 2018 11:54
Operator : PEK
Sample : 004145-11 (7961-31)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	88.9	ug/Kg	5286	1	7.55	39623	666.7
2-Pentanone, 4-hy...	5.23	8184.7	ug/Kg	486450	1	7.55	39623	666.7
Ethane, 1,1,2,2-t...	6.33	87.0	ug/Kg	5168	1	7.55	39623	666.7
1,5,9-Undecatrien...	24.78	67.0	ug/Kg	5057	6	25.69	50344	666.7
Naphthalene, 1,2,...	28.35	1015.5	ug/Kg	76685	6	25.69	50344	666.7
1H-Cyclopropa[a]n...	28.60	76.4	ug/Kg	5773	6	25.69	50344	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092418\
Data File : E0924805.D
Acq On : 24 Sep 2018 12:35
Operator : PEK
Sample : 004145-12 (7961-32)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	72.2	ug/Kg	6896	1	7.55	63697	666.7
2-Pentanone, 4-hy...	5.23	6132.2	ug/Kg	585898	1	7.55	63697	666.7
2H-Tetrazole, 2,5...	10.05	201.6	ug/Kg	28047	2	9.52	92740	666.7
1,6-Anhydro-.beta...	12.36	999.0	ug/Kg	172872	3	12.45	115365	666.7
1R,4S,7S,11R-2,2,...	28.35	170.4	ug/Kg	24086	6	25.69	94213	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092418\
Data File : E0924806.D
Acq On : 24 Sep 2018 13:15
Operator : PEK
Sample : 004145-13 (7961-33)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	86.3	ug/Kg	8185	1	7.55	63249	666.7
2-Pentanone, 4-hy...	5.23	6669.0	ug/Kg	632712	1	7.55	63249	666.7
1,2-Dichlorobenze...	7.78	75.4	ug/Kg	7150	1	7.55	63249	666.7
1-Heptadecanamine	26.87	45.0	ug/Kg	6443	6	25.69	95370	666.7
Naphthalene, 1,2,...	28.35	593.4	ug/Kg	84891	6	25.69	95370	666.7
1,2,4,8-Tetrameth...	28.60	161.9	ug/Kg	23164	6	25.69	95370	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092418\
Data File : E0924807.D
Acq On : 24 Sep 2018 13:56
Operator : PEK
Sample : 004145-14 (7961-34)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
2-Pentanone, 4-hy...	4.90	81.8	ug/Kg	7979	1	7.55	65063	666.7
2-Pentanone, 4-hy...	5.23	6227.4	ug/Kg	607759	1	7.55	65063	666.7
Nitrobenzene-D5	8.38	86.6	ug/Kg	8452	1	7.55	65063	666.7
1,1'-Biphenyl, 2-...	11.30	78.0	ug/Kg	12819	3	12.45	109527	666.7
1,4-Dimethyl-8-is...	28.35	251.4	ug/Kg	37723	6	25.69	100048	666.7

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092418\
Data File : E0924808.D
Acq On : 24 Sep 2018 14:36
Operator : PEK
Sample : 004145-15 (7961-35)
Misc : B10955 AG-5 8270 SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027S.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
2-Pentanone, 4-hy...	4.90	94.8	ug/Kg	8642	1	7.55	60758	666.7
2-Pentanone, 4-hy...	5.24	6881.4	ug/Kg	627143	1	7.55	60758	666.7
Acetamide, N-ethyl-	7.37	99.6	ug/Kg	9075	1	7.55	60758	666.7
Nitrobenzene-D5	8.38	97.2	ug/Kg	8861	1	7.55	60758	666.7
Aziridine, 2-ethyl-	10.05	164.7	ug/Kg	22060	2	9.52	89299	666.7
1,1'-Biphenyl, 2-...	11.30	146.8	ug/Kg	23706	3	12.45	107692	666.7
1,6-Anhydro-.beta...	12.36	810.0	ug/Kg	130852	3	12.45	107692	666.7
2,6,10,14,18,22-T...	24.78	65.1	ug/Kg	8860	6	25.69	90782	666.7

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092018\
Data File : E0920805.D
Acq On : 20 Sep 2018 14:03
Operator : PEK
Sample : 004146-01 (7961-101)
Misc : B10941 AG-5 8270
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027W.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
Isobutylamine	4.18	0.4	ug/L	786	1	7.55	42591	20.0
3-Chloro-6-fluoro...	7.21	15.0	ug/L	31867	1	7.55	42591	20.0
1,4-Dichlorobenze...	7.78	15.4	ug/L	32788	1	7.55	42591	20.0
2-Aminoimidazole-...	8.60	1.2	ug/L	3462	2	9.53	58160	20.0
Aziridine, 1-(met...	9.38	2.8	ug/L	8234	2	9.53	58160	20.0
1,2,4-Dithiazole-...	9.98	0.5	ug/L	1341	2	9.53	58160	20.0
Benzaldehyde, 4-m...	11.49	0.9	ug/L	2720	3	12.46	61579	20.0
Diethyltoluamide	13.13	6.7	ug/L	20525	3	12.46	61579	20.0
Pentanoic acid, 2...	13.19	2.0	ug/L	6193	3	12.46	61579	20.0
Isoxazole	24.79	0.6	ug/L	1730	6	25.70	61497	20.0
Phenol, 2,6-dichl...	26.27	0.3	ug/L	905	6	25.70	61497	20.0
Quinoline, 3-bromo-	26.56	0.3	ug/L	1030	6	25.70	61497	20.0
1,2-Bis(trimethyl...	26.82	0.3	ug/L	781	6	25.70	61497	20.0
Pyridine, 1,2,3,6...	26.97	0.3	ug/L	973	6	25.70	61497	20.0
Benzoic acid, 2,4...	27.96	0.3	ug/L	1035	6	25.70	61497	20.0
1H-Indole, 1-meth...	28.50	0.3	ug/L	843	6	25.70	61497	20.0
2-Pyridinemethano...	28.83	0.3	ug/L	798	6	25.70	61497	20.0
Phenol, 2,6-dichl...	29.89	0.2	ug/L	695	6	25.70	61497	20.0

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092018\
Data File : E0920806.D
Acq On : 20 Sep 2018 14:45
Operator : PEK
Sample : 004146-03 (7961-102)
Misc : B10941 AG-5 8270
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027W.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|--Internal Standard---| #	RT	Resp	Conc|
Acetaldehyde, O-m...	4.18	0.4	ug/L	844	1	7.55	43849	20.0
3-Chloro-6-fluoro...	7.21	15.5	ug/L	34063	1	7.55	43849	20.0
1,4-Dichlorobenze...	7.78	15.6	ug/L	34263	1	7.55	43849	20.0
Adenine	9.98	1.5	ug/L	4633	2	9.53	60648	20.0
Phenol, 4-(1,1-di...	11.49	2.1	ug/L	6801	3	12.46	64803	20.0
Cyanic acid, ethy...	13.19	0.2	ug/L	784	3	12.46	64803	20.0
Carbamodithioic a...	13.21	0.4	ug/L	1407	3	12.46	64803	20.0
Dibenzo[b,E]-1,4-...	25.84	0.3	ug/L	977	6	25.70	68706	20.0
2,3,5-Trichlorobe...	26.41	0.3	ug/L	872	6	25.70	68706	20.0
Acetic acid, 2,3-...	27.17	0.3	ug/L	937	6	25.70	68706	20.0
3-Methylindole-2-...	28.04	0.2	ug/L	758	6	25.70	68706	20.0
aS-Triazine-3,5(2...	29.19	0.2	ug/L	763	6	25.70	68706	20.0

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

Tentatively Identified Compound (LSC) summary

Data Path : C:\MSDChem\2\DATA\2018DATA\092018\
Data File : E0920809.D
Acq On : 20 Sep 2018 16:51
Operator : PEK
Sample : 004146-06 (7961-110FB)
Misc : B10941 AG-5 8270
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\2\CALFILES\8270CALS\E8270D027W.M
Quant Title : 8270 BNA Calibration

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	|-- Internal Standard --- | #	RT	Resp	Conc |
Acetaldehyde, O-m...	4.18	0.4	ug/L	841	1	7.55	43254	20.0
3-Chloro-6-fluoro...	7.21	14.3	ug/L	30930	1	7.55	43254	20.0
1,4-Dichlorobenze...	7.78	15.9	ug/L	34400	1	7.55	43254	20.0
Cyanic acid, ethy...	13.19	0.4	ug/L	1252	3	12.46	62118	20.0
6-Nitro-8-methoxy...	24.78	0.2	ug/L	689	6	25.70	63974	20.0
Quinoline, 8-bromo-	26.28	0.2	ug/L	661	6	25.70	63974	20.0
Cyclopentanecarbo...	28.47	0.3	ug/L	851	6	25.70	63974	20.0
Carbamic acid, N-...	29.06	0.4	ug/L	1416	6	25.70	63974	20.0
.gamma.-Cyano-3-m...	29.30	0.2	ug/L	782	6	25.70	63974	20.0
.gamma.-Cyano-3-m...	29.78	0.2	ug/L	704	6	25.70	63974	20.0
6-(Pyrrolidin-1-y...	30.15	0.3	ug/L	915	6	25.70	63974	20.0

ASR# 7961 TIC data has not been reviewed, evaluated, or validated.

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S) (MONTH / DAY / YEAR)	SHEET
Dan Gravatt	C.W. Process	08 / 27 / 2018	1 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	8oz BOTTLE	BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7961-1		1					X				
7961-2		1					X				
7961-3		1					X				
7961-4		1					X				
7961-5		1					X				
7961-6		1					X				
7961-7		1					X				
7961-8		1					X				
7961-9		1					X				
7961-10		1					X				
7961-11		1					X				
7961-12		1					X				
7961-13		1					X				
7961-14		1					X				
7961-15		1					X				
7961-16		1					X				
7961-17		1					X				
7961-18		1					X				
7961-19		1					X				
7961-20		1					X				
7961-21		1					X				
7961-~~22~~ 24 FD	~	1					X				Field dup of 7961-21
7961-23		1					X				
7961-~~24~~ 22 FD	~	1					X				Field dup of 7961-23

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
42 CONTAINER(S) CONSISTING OF _____ CRATE(S)	_____ COMMERCIAL CARRIER _____
2 ICE CHEST(S): OTHER _____	X SAMPLER CONVEYED _____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
Dan Gravatt ☐ SEALED ☐ UNSEALED	8/29/18	1445	Nick Rong ☐ SEALED ☐ UNSEALED	8/29/18	1445	Archive
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S) (MONTH DAY YEAR)	SHEET
Dan Gravatt	C.W. Process	08 27-29 2018	2 of 2

CONTENTS OF SHIPMENT

ASR AND SAMPLE NUMBER	TYPE OF CONTAINERS: 1 L PLASTIC BOTTLE	8oz BOTTLE	8oz BOTTLE	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SOLID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
7961-25		1					X				
7961-26 FD		1					X				Fieldup of 7961-25
7961-27		1					X				
7961-28		1					X				
7961-29		1					X				
7961-30		1					X				
7961-31		1					X				
7961-32		1					X				
7961-33		1					X				
7961-34		1					X				
7961-35		1					X				
7961-101	1		1			X					No ascorbic acid needed for CN
7961-102	1		2			X					
7961-103	1					X					
7961-104 FD	1					X					
7961-105	1					X					
7961-110	1		1			X					

ASR COMPLETE

DESCRIPTION OF SHIPMENT

42 CONTAINER(S) CONSISTING OF _____ CRATE(S)

2 ICE CHEST(S): OTHER _____

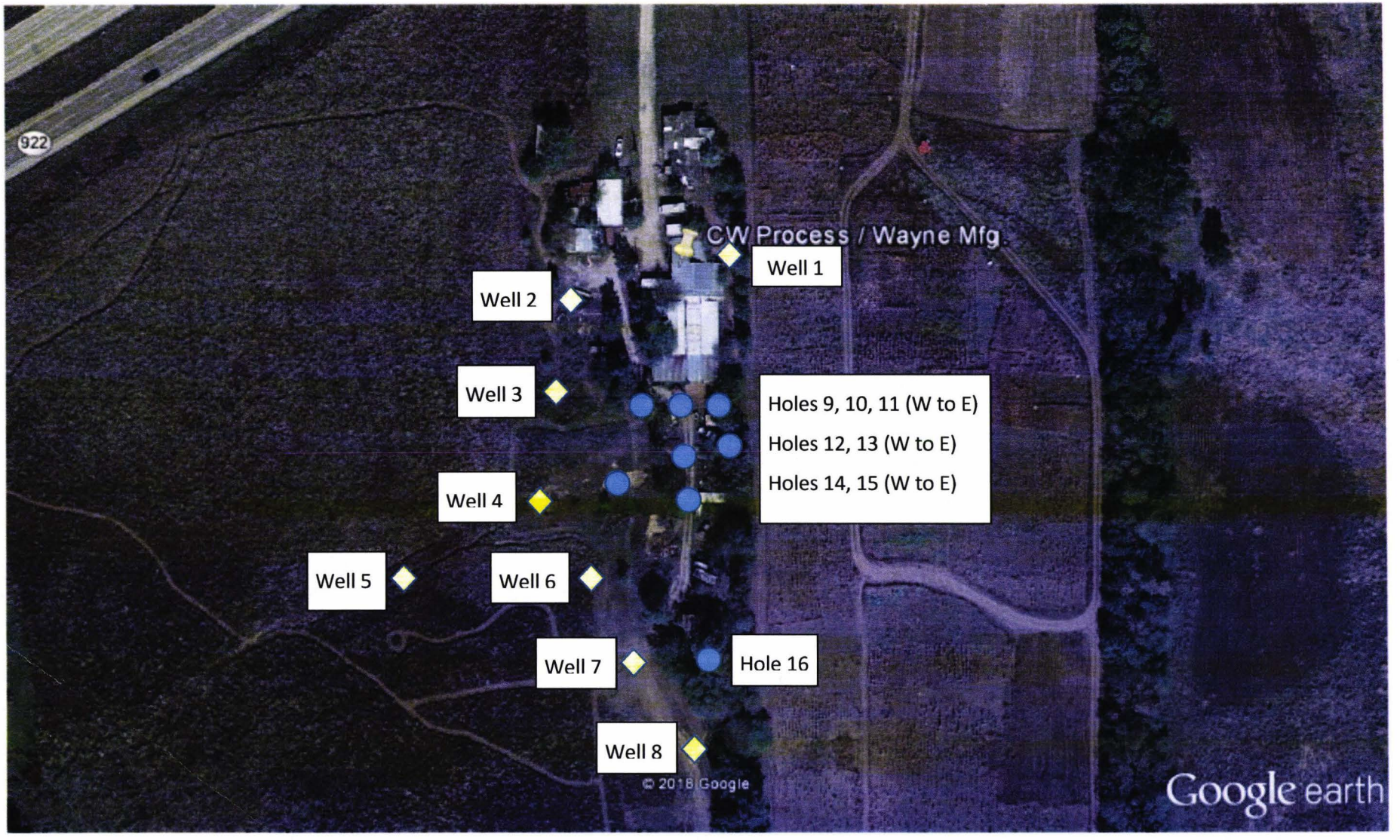
MODE OF SHIPMENT

_____ COMMERCIAL CARRIER _____

X SAMPLER CONVEYED _____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	DATE	TIME	RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
D. Gravatt ☐ SEALED ☐ UNSEALED	8/29/18	1445	Nicole Roby ☐ SEALED ☐ UNSEALED	8/29/18	1445	Analysis
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY (PM/SAMPLER) ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	REASON FOR CHANGE OF CUSTODY



Google Earth Pro

feet 900
meters 300