Jump, Christine

From: Michael Stephenson <mstephenson@cameron-cole.com>
Sent: Wednesday, October 08, 2014 3:35 PM
To: Jump, Christine
Cc: SMITH, MARTIN L; Brady Gerber; sklaus@geostatenvironmental.com
Subject: Building B concrete re-use
Attachments: Concrete re-use map Phase IV.pdf; 60179521_frc.pdf; 60179521_fr_draft.pdf; 60179153 _fr_draft.pdf

Hi Chris,

As we discussed, the results of our underslab sampling in Building B were largely unfavorable with regards to re-using the concrete as backfill. However, the data support re-using a small portion of the slab in the southwestern corner of the building as shown on the attached figure. Also attached are the analytical results from our two most recent sampling efforts.

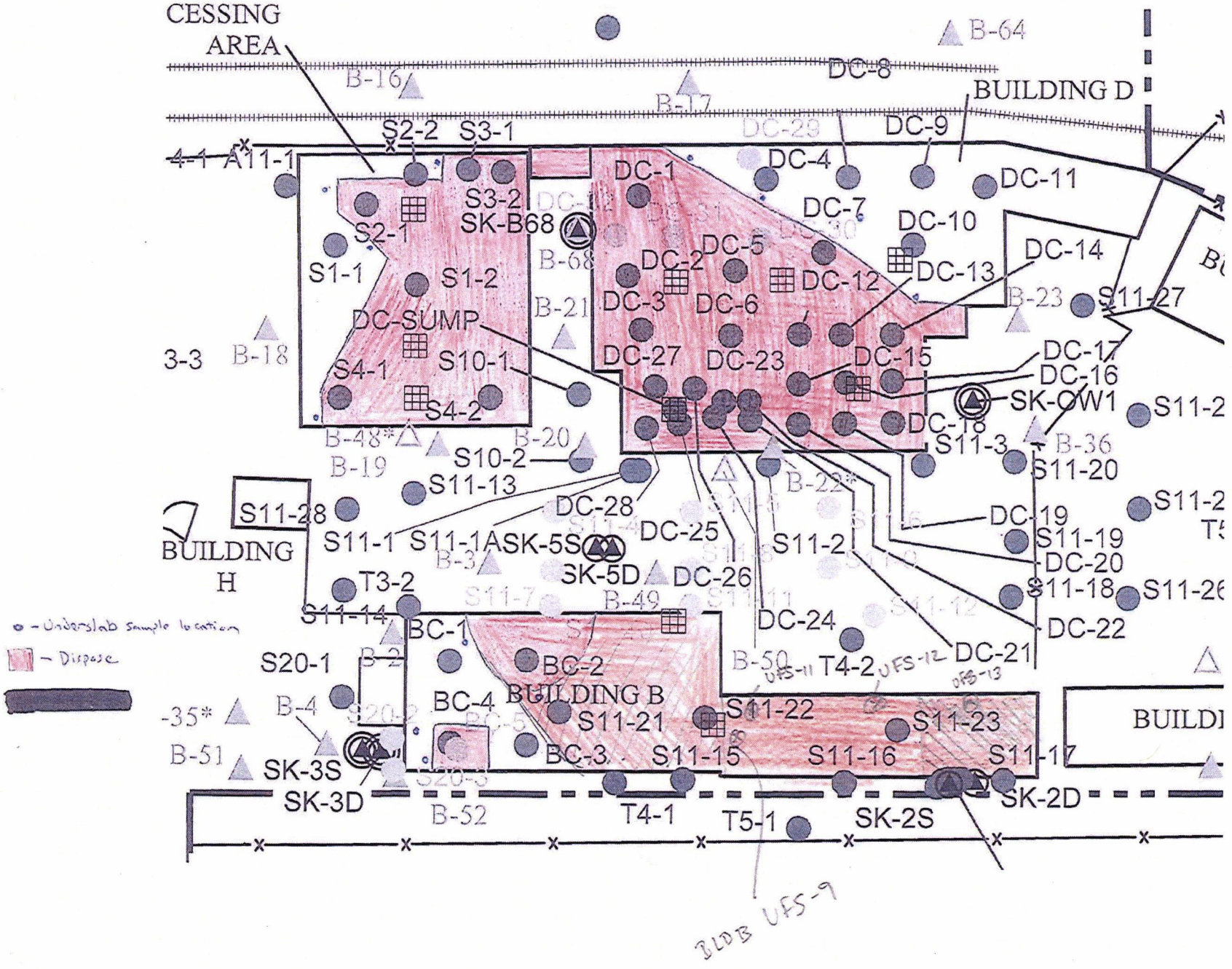
We have collected additional samples at depth in the eastern portion of the building to delineate the extent of the impacts identified under the slab for use in planning the excavation of this area. The remainder of the sampling in this area will be performed as we are digging and looking for a clean margin.

Let me know if you have any questions about this or reply with you approval of our proposed concrete re-use plan.

Thanks,

Mike Stephenson
Principal Scientist
Cameron-Cole, LLC
50 Hegenberger Loop
Oakland CA 94621
office - 510.777.1864
mobile - 510.773.9895
mstephenson@cameron-cole.com

RCRA
534253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B-51
B-52
B-64
B-68
B-3
B-4
UFS-11
UFS-12
UFS-13
BLDB UFS-9
- Underslab sample location
- Dispose

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October 02, 2014

Brady Gerber
Integrated Solutions
215 S. Laura
Wichita, KS 67211

RE: Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Dear Brady Gerber:
Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sherri Rosenstangle
sherri.rosenstangle@pacelabs.com
Project Manager

Enclosures

PRELIMINARY

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CERTIFICATIONS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60179153001	BLD B-UFS 5	Solid	09/30/14 16:00	10/01/14 08:30
60179153002	BLD B-UFS 6	Solid	09/30/14 16:15	10/01/14 08:30
60179153003	BLD B-UFS 7	Solid	09/30/14 16:30	10/01/14 08:30
60179153004	BLD B-UFS 8	Solid	09/30/14 16:50	10/01/14 08:30
60179153005	TRIP BLANK	Solid	09/30/14 16:50	10/01/14 08:30

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SAMPLE ANALYTE COUNT

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60179153001	BLD B-UFS 5	EPA 8260	JKL	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179153002	BLD B-UFS 6	EPA 8260	JKL	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179153003	BLD B-UFS 7	ASTM D2974	DWC	1	PASI-K
60179153004	BLD B-UFS 8	EPA 8260	JKL	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179153005	TRIP BLANK	EPA 8260	JKL	74	PASI-K

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: BLD B-UFS 5 **Lab ID: 60179153001** Collected: 09/30/14 16:00 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**59.6**	ug/kg	10.3	1		10/01/14 13:59	67-64-1	
Acrolein	ND	ug/kg	51.5	1		10/01/14 13:59	107-02-8	
Acrylonitrile	ND	ug/kg	51.5	1		10/01/14 13:59	107-13-1	
Benzene	ND	ug/kg	2.6	1		10/01/14 13:59	71-43-2	
Bromobenzene	ND	ug/kg	2.6	1		10/01/14 13:59	108-86-1	
Bromochloromethane	ND	ug/kg	2.6	1		10/01/14 13:59	74-97-5	
Bromodichloromethane	ND	ug/kg	2.6	1		10/01/14 13:59	75-27-4	
Bromoform	ND	ug/kg	2.6	1		10/01/14 13:59	75-25-2	
Bromomethane	ND	ug/kg	2.6	1		10/01/14 13:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.2	1		10/01/14 13:59	78-93-3	
n-Butylbenzene	ND	ug/kg	2.6	1		10/01/14 13:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.6	1		10/01/14 13:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.6	1		10/01/14 13:59	98-06-6	
Carbon disulfide	ND	ug/kg	2.6	1		10/01/14 13:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.6	1		10/01/14 13:59	56-23-5	
Chlorobenzene	ND	ug/kg	2.6	1		10/01/14 13:59	108-90-7	
Chloroethane	ND	ug/kg	2.6	1		10/01/14 13:59	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.6	1		10/01/14 13:59	110-75-8	
Chloroform	ND	ug/kg	2.6	1		10/01/14 13:59	67-66-3	
Chloromethane	ND	ug/kg	2.6	1		10/01/14 13:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.6	1		10/01/14 13:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.6	1		10/01/14 13:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		10/01/14 13:59	96-12-8	
Dibromochloromethane	ND	ug/kg	2.6	1		10/01/14 13:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.6	1		10/01/14 13:59	106-93-4	
Dibromomethane	ND	ug/kg	2.6	1		10/01/14 13:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.6	1		10/01/14 13:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.6	1		10/01/14 13:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.6	1		10/01/14 13:59	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.6	1		10/01/14 13:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.6	1		10/01/14 13:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.6	1		10/01/14 13:59	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.6	1		10/01/14 13:59	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.6	1		10/01/14 13:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/01/14 13:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/01/14 13:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.6	1		10/01/14 13:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.6	1		10/01/14 13:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.6	1		10/01/14 13:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.6	1		10/01/14 13:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/01/14 13:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/01/14 13:59	10061-02-6	
Ethylbenzene	ND	ug/kg	2.6	1		10/01/14 13:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	2.6	1		10/01/14 13:59	87-68-3	
2-Hexanone	ND	ug/kg	10.3	1		10/01/14 13:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	2.6	1		10/01/14 13:59	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: BLD B-UFS 5 **Lab ID: 60179153001** Collected: 09/30/14 16:00 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	2.6	1		10/01/14 13:59	99-87-6	
Methylene chloride	ND	ug/kg	2.6	1		10/01/14 13:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	5.2	1		10/01/14 13:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	2.6	1		10/01/14 13:59	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		10/01/14 13:59	91-20-3	
n-Propylbenzene	ND	ug/kg	2.6	1		10/01/14 13:59	103-65-1	
Styrene	ND	ug/kg	2.6	1		10/01/14 13:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/01/14 13:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/01/14 13:59	79-34-5	
Tetrachloroethene	**3750**	ug/kg	135	50		10/01/14 16:01	127-18-4	
Toluene	ND	ug/kg	2.6	1		10/01/14 13:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	2.6	1		10/01/14 13:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	2.6	1		10/01/14 13:59	120-82-1	
1,1,1-Trichloroethane	**5.0**	ug/kg	2.6	1		10/01/14 13:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	2.6	1		10/01/14 13:59	79-00-5	
Trichloroethene	**60.5**	ug/kg	2.6	1		10/01/14 13:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	2.6	1		10/01/14 13:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	2.6	1		10/01/14 13:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	2.6	1		10/01/14 13:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	2.6	1		10/01/14 13:59	108-67-8	
Vinyl acetate	ND	ug/kg	51.5	1		10/01/14 13:59	108-05-4	
Vinyl chloride	ND	ug/kg	2.6	1		10/01/14 13:59	75-01-4	
Xylene (Total)	ND	ug/kg	2.6	1		10/01/14 13:59	1330-20-7	
m&p-Xylene	ND	ug/kg	2.6	1		10/01/14 13:59	179601-23-1	
o-Xylene	ND	ug/kg	2.6	1		10/01/14 13:59	95-47-6	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1		10/01/14 13:59	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123	1		10/01/14 13:59	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-129	1		10/01/14 13:59	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**1.3**	%	0.50	1		10/01/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: BLD B-UFS 6 **Lab ID: 60179153002** Collected: 09/30/14 16:15 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**17.9**	ug/kg	11.9	1		10/01/14 14:14	67-64-1	
Acrolein	ND	ug/kg	59.3	1		10/01/14 14:14	107-02-8	
Acrylonitrile	ND	ug/kg	59.3	1		10/01/14 14:14	107-13-1	
Benzene	ND	ug/kg	3.0	1		10/01/14 14:14	71-43-2	
Bromobenzene	ND	ug/kg	3.0	1		10/01/14 14:14	108-86-1	
Bromochloromethane	ND	ug/kg	3.0	1		10/01/14 14:14	74-97-5	
Bromodichloromethane	ND	ug/kg	3.0	1		10/01/14 14:14	75-27-4	
Bromoform	ND	ug/kg	3.0	1		10/01/14 14:14	75-25-2	
Bromomethane	ND	ug/kg	3.0	1		10/01/14 14:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.9	1		10/01/14 14:14	78-93-3	
n-Butylbenzene	ND	ug/kg	3.0	1		10/01/14 14:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.0	1		10/01/14 14:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.0	1		10/01/14 14:14	98-06-6	
Carbon disulfide	ND	ug/kg	3.0	1		10/01/14 14:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.0	1		10/01/14 14:14	56-23-5	
Chlorobenzene	ND	ug/kg	3.0	1		10/01/14 14:14	108-90-7	
Chloroethane	ND	ug/kg	3.0	1		10/01/14 14:14	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.0	1		10/01/14 14:14	110-75-8	
Chloroform	ND	ug/kg	3.0	1		10/01/14 14:14	67-66-3	
Chloromethane	ND	ug/kg	3.0	1		10/01/14 14:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.0	1		10/01/14 14:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.0	1		10/01/14 14:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.9	1		10/01/14 14:14	96-12-8	
Dibromochloromethane	ND	ug/kg	3.0	1		10/01/14 14:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.0	1		10/01/14 14:14	106-93-4	
Dibromomethane	ND	ug/kg	3.0	1		10/01/14 14:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.0	1		10/01/14 14:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.0	1		10/01/14 14:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.0	1		10/01/14 14:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.0	1		10/01/14 14:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.0	1		10/01/14 14:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.0	1		10/01/14 14:14	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.0	1		10/01/14 14:14	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.0	1		10/01/14 14:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.0	1		10/01/14 14:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.0	1		10/01/14 14:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.0	1		10/01/14 14:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.0	1		10/01/14 14:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.0	1		10/01/14 14:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.0	1		10/01/14 14:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.0	1		10/01/14 14:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.0	1		10/01/14 14:14	10061-02-6	
Ethylbenzene	ND	ug/kg	3.0	1		10/01/14 14:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.0	1		10/01/14 14:14	87-68-3	
2-Hexanone	ND	ug/kg	11.9	1		10/01/14 14:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.0	1		10/01/14 14:14	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: BLD B-UFS 6 **Lab ID: 60179153002** Collected: 09/30/14 16:15 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	3.0	1		10/01/14 14:14	99-87-6	
Methylene chloride	ND	ug/kg	3.0	1		10/01/14 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	5.9	1		10/01/14 14:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.0	1		10/01/14 14:14	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1		10/01/14 14:14	91-20-3	
n-Propylbenzene	ND	ug/kg	3.0	1		10/01/14 14:14	103-65-1	
Styrene	ND	ug/kg	3.0	1		10/01/14 14:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.0	1		10/01/14 14:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.0	1		10/01/14 14:14	79-34-5	
Tetrachloroethene	**2290**	ug/kg	137	50		10/01/14 16:17	127-18-4	
Toluene	ND	ug/kg	3.0	1		10/01/14 14:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.0	1		10/01/14 14:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.0	1		10/01/14 14:14	120-82-1	
1,1,1-Trichloroethane	**4.3**	ug/kg	3.0	1		10/01/14 14:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.0	1		10/01/14 14:14	79-00-5	
Trichloroethene	**50.7**	ug/kg	3.0	1		10/01/14 14:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.0	1		10/01/14 14:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.0	1		10/01/14 14:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.0	1		10/01/14 14:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.0	1		10/01/14 14:14	108-67-8	
Vinyl acetate	ND	ug/kg	59.3	1		10/01/14 14:14	108-05-4	
Vinyl chloride	ND	ug/kg	3.0	1		10/01/14 14:14	75-01-4	
Xylene (Total)	ND	ug/kg	3.0	1		10/01/14 14:14	1330-20-7	
m&p-Xylene	ND	ug/kg	3.0	1		10/01/14 14:14	179601-23-1	
o-Xylene	ND	ug/kg	3.0	1		10/01/14 14:14	95-47-6	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1		10/01/14 14:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%	76-123	1		10/01/14 14:14	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	75-129	1		10/01/14 14:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**4.8**	%	0.50	1		10/01/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: BLD B-UFS 7 **Lab ID: 60179153003** Collected: 09/30/14 16:30 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**1.4**	%	0.50	1		10/01/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: BLD B-UFS 8 **Lab ID: 60179153004** Collected: 09/30/14 16:50 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**26.1**	ug/kg	10.2	1		10/01/14 14:29	67-64-1	
Acrolein	ND	ug/kg	51.0	1		10/01/14 14:29	107-02-8	
Acrylonitrile	ND	ug/kg	51.0	1		10/01/14 14:29	107-13-1	
Benzene	ND	ug/kg	2.6	1		10/01/14 14:29	71-43-2	
Bromobenzene	ND	ug/kg	2.6	1		10/01/14 14:29	108-86-1	
Bromochloromethane	ND	ug/kg	2.6	1		10/01/14 14:29	74-97-5	
Bromodichloromethane	ND	ug/kg	2.6	1		10/01/14 14:29	75-27-4	
Bromoform	ND	ug/kg	2.6	1		10/01/14 14:29	75-25-2	
Bromomethane	ND	ug/kg	2.6	1		10/01/14 14:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.1	1		10/01/14 14:29	78-93-3	
n-Butylbenzene	ND	ug/kg	2.6	1		10/01/14 14:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.6	1		10/01/14 14:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.6	1		10/01/14 14:29	98-06-6	
Carbon disulfide	ND	ug/kg	2.6	1		10/01/14 14:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.6	1		10/01/14 14:29	56-23-5	
Chlorobenzene	ND	ug/kg	2.6	1		10/01/14 14:29	108-90-7	
Chloroethane	ND	ug/kg	2.6	1		10/01/14 14:29	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.6	1		10/01/14 14:29	110-75-8	
Chloroform	ND	ug/kg	2.6	1		10/01/14 14:29	67-66-3	
Chloromethane	ND	ug/kg	2.6	1		10/01/14 14:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.6	1		10/01/14 14:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.6	1		10/01/14 14:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		10/01/14 14:29	96-12-8	
Dibromochloromethane	ND	ug/kg	2.6	1		10/01/14 14:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.6	1		10/01/14 14:29	106-93-4	
Dibromomethane	ND	ug/kg	2.6	1		10/01/14 14:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.6	1		10/01/14 14:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.6	1		10/01/14 14:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.6	1		10/01/14 14:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.6	1		10/01/14 14:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.6	1		10/01/14 14:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.6	1		10/01/14 14:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.6	1		10/01/14 14:29	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.6	1		10/01/14 14:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/01/14 14:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/01/14 14:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.6	1		10/01/14 14:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.6	1		10/01/14 14:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.6	1		10/01/14 14:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.6	1		10/01/14 14:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/01/14 14:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/01/14 14:29	10061-02-6	
Ethylbenzene	ND	ug/kg	2.6	1		10/01/14 14:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	2.6	1		10/01/14 14:29	87-68-3	
2-Hexanone	ND	ug/kg	10.2	1		10/01/14 14:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	2.6	1		10/01/14 14:29	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: BLD B-UFS 8 **Lab ID: 60179153004** Collected: 09/30/14 16:50 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	2.6	1		10/01/14 14:29	99-87-6	
Methylene chloride	ND	ug/kg	2.6	1		10/01/14 14:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	5.1	1		10/01/14 14:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	2.6	1		10/01/14 14:29	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		10/01/14 14:29	91-20-3	
n-Propylbenzene	ND	ug/kg	2.6	1		10/01/14 14:29	103-65-1	
Styrene	ND	ug/kg	2.6	1		10/01/14 14:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/01/14 14:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/01/14 14:29	79-34-5	
Tetrachloroethene	**593**	ug/kg	132	50		10/01/14 16:32	127-18-4	
Toluene	ND	ug/kg	2.6	1		10/01/14 14:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	2.6	1		10/01/14 14:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	2.6	1		10/01/14 14:29	120-82-1	
1,1,1-Trichloroethane	**3.1**	ug/kg	2.6	1		10/01/14 14:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	2.6	1		10/01/14 14:29	79-00-5	
Trichloroethene	**47.6**	ug/kg	2.6	1		10/01/14 14:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	2.6	1		10/01/14 14:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	2.6	1		10/01/14 14:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	2.6	1		10/01/14 14:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	2.6	1		10/01/14 14:29	108-67-8	
Vinyl acetate	ND	ug/kg	51.0	1		10/01/14 14:29	108-05-4	
Vinyl chloride	ND	ug/kg	2.6	1		10/01/14 14:29	75-01-4	
Xylene (Total)	ND	ug/kg	2.6	1		10/01/14 14:29	1330-20-7	
m&p-Xylene	ND	ug/kg	2.6	1		10/01/14 14:29	179601-23-1	
o-Xylene	ND	ug/kg	2.6	1		10/01/14 14:29	95-47-6	
Surrogates								
Toluene-d8 (S)	107	%	80-120	1		10/01/14 14:29	2037-26-5	
4-Bromofluorobenzene (S)	97	%	76-123	1		10/01/14 14:29	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	75-129	1		10/01/14 14:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**3.6**	%	0.50	1		10/01/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: TRIP BLANK **Lab ID: 60179153005** Collected: 09/30/14 16:50 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	20.0	1		10/01/14 13:43	67-64-1	
Acrolein	ND	ug/kg	100	1		10/01/14 13:43	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		10/01/14 13:43	107-13-1	
Benzene	ND	ug/kg	5.0	1		10/01/14 13:43	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/01/14 13:43	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/01/14 13:43	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/01/14 13:43	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/01/14 13:43	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		10/01/14 13:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	1		10/01/14 13:43	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/01/14 13:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/01/14 13:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/01/14 13:43	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		10/01/14 13:43	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/01/14 13:43	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/01/14 13:43	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		10/01/14 13:43	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	5.0	1		10/01/14 13:43	110-75-8	
Chloroform	ND	ug/kg	5.0	1		10/01/14 13:43	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		10/01/14 13:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/01/14 13:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/01/14 13:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.0	1		10/01/14 13:43	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/01/14 13:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/01/14 13:43	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/01/14 13:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/01/14 13:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/01/14 13:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/01/14 13:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		10/01/14 13:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/01/14 13:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/01/14 13:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.0	1		10/01/14 13:43	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/01/14 13:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/01/14 13:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/01/14 13:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/01/14 13:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/01/14 13:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/01/14 13:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/01/14 13:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/01/14 13:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/01/14 13:43	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		10/01/14 13:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/01/14 13:43	87-68-3	
2-Hexanone	ND	ug/kg	20.0	1		10/01/14 13:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/01/14 13:43	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Sample: TRIP BLANK **Lab ID: 60179153005** Collected: 09/30/14 16:50 Received: 10/01/14 08:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/01/14 13:43	99-87-6	
Methylene chloride	ND	ug/kg	5.0	1		10/01/14 13:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	1		10/01/14 13:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/01/14 13:43	1634-04-4	
Naphthalene	ND	ug/kg	10.0	1		10/01/14 13:43	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/01/14 13:43	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/01/14 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/01/14 13:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/01/14 13:43	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/01/14 13:43	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/01/14 13:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/01/14 13:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/01/14 13:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/01/14 13:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/01/14 13:43	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/01/14 13:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/01/14 13:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/01/14 13:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/01/14 13:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/01/14 13:43	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		10/01/14 13:43	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		10/01/14 13:43	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	1		10/01/14 13:43	1330-20-7	
m&p-Xylene	ND	ug/kg	5.0	1		10/01/14 13:43	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/01/14 13:43	95-47-6	
Surrogates								
Toluene-d8 (S)	106	%	80-120	1		10/01/14 13:43	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123	1		10/01/14 13:43	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	75-129	1		10/01/14 13:43	17060-07-0	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

QC Batch: MSV/64777 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60179153001, 60179153002, 60179153004, 60179153005

METHOD BLANK: 1451981 Matrix: Solid
Associated Lab Samples: 60179153001, 60179153002, 60179153004, 60179153005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/01/14 13:28	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/01/14 13:28	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/01/14 13:28	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/01/14 13:28	
1,1-Dichloroethane	ug/kg	ND	5.0	10/01/14 13:28	
1,1-Dichloroethene	ug/kg	ND	5.0	10/01/14 13:28	
1,1-Dichloropropene	ug/kg	ND	5.0	10/01/14 13:28	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/01/14 13:28	
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/01/14 13:28	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/01/14 13:28	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/01/14 13:28	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	10/01/14 13:28	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/01/14 13:28	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/01/14 13:28	
1,2-Dichloroethane	ug/kg	ND	5.0	10/01/14 13:28	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	10/01/14 13:28	
1,2-Dichloropropane	ug/kg	ND	5.0	10/01/14 13:28	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/01/14 13:28	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/01/14 13:28	
1,3-Dichloropropane	ug/kg	ND	5.0	10/01/14 13:28	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/01/14 13:28	
2,2-Dichloropropane	ug/kg	ND	5.0	10/01/14 13:28	
2-Butanone (MEK)	ug/kg	ND	10.0	10/01/14 13:28	
2-Chloroethylvinyl ether	ug/kg	ND	5.0	10/01/14 13:28	
2-Chlorotoluene	ug/kg	ND	5.0	10/01/14 13:28	
2-Hexanone	ug/kg	ND	20.0	10/01/14 13:28	
4-Chlorotoluene	ug/kg	ND	5.0	10/01/14 13:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/01/14 13:28	
Acetone	ug/kg	ND	20.0	10/01/14 13:28	
Acrolein	ug/kg	ND	100	10/01/14 13:28	
Acrylonitrile	ug/kg	ND	100	10/01/14 13:28	
Benzene	ug/kg	ND	5.0	10/01/14 13:28	
Bromobenzene	ug/kg	ND	5.0	10/01/14 13:28	
Bromochloromethane	ug/kg	ND	5.0	10/01/14 13:28	
Bromodichloromethane	ug/kg	ND	5.0	10/01/14 13:28	
Bromoform	ug/kg	ND	5.0	10/01/14 13:28	
Bromomethane	ug/kg	ND	5.0	10/01/14 13:28	
Carbon disulfide	ug/kg	ND	5.0	10/01/14 13:28	
Carbon tetrachloride	ug/kg	ND	5.0	10/01/14 13:28	
Chlorobenzene	ug/kg	ND	5.0	10/01/14 13:28	
Chloroethane	ug/kg	ND	5.0	10/01/14 13:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

METHOD BLANK: 1451981 Matrix: Solid
Associated Lab Samples: 60179153001, 60179153002, 60179153004, 60179153005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/kg	ND	5.0	10/01/14 13:28	
Chloromethane	ug/kg	ND	5.0	10/01/14 13:28	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/01/14 13:28	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/01/14 13:28	
Dibromochloromethane	ug/kg	ND	5.0	10/01/14 13:28	
Dibromomethane	ug/kg	ND	5.0	10/01/14 13:28	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/01/14 13:28	
Ethylbenzene	ug/kg	ND	5.0	10/01/14 13:28	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/01/14 13:28	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/01/14 13:28	
m&p-Xylene	ug/kg	ND	5.0	10/01/14 13:28	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/01/14 13:28	
Methylene chloride	ug/kg	ND	5.0	10/01/14 13:28	
n-Butylbenzene	ug/kg	ND	5.0	10/01/14 13:28	
n-Propylbenzene	ug/kg	ND	5.0	10/01/14 13:28	
Naphthalene	ug/kg	ND	10.0	10/01/14 13:28	
o-Xylene	ug/kg	ND	5.0	10/01/14 13:28	
p-Isopropyltoluene	ug/kg	ND	5.0	10/01/14 13:28	
sec-Butylbenzene	ug/kg	ND	5.0	10/01/14 13:28	
Styrene	ug/kg	ND	5.0	10/01/14 13:28	
tert-Butylbenzene	ug/kg	ND	5.0	10/01/14 13:28	
Tetrachloroethene	ug/kg	ND	5.0	10/01/14 13:28	
Toluene	ug/kg	ND	5.0	10/01/14 13:28	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/01/14 13:28	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/01/14 13:28	
Trichloroethene	ug/kg	ND	5.0	10/01/14 13:28	
Trichlorofluoromethane	ug/kg	ND	5.0	10/01/14 13:28	
Vinyl acetate	ug/kg	ND	100	10/01/14 13:28	
Vinyl chloride	ug/kg	ND	5.0	10/01/14 13:28	
Xylene (Total)	ug/kg	ND	5.0	10/01/14 13:28	
1,2-Dichloroethane-d4 (S)	%	103	75-129	10/01/14 13:28	
4-Bromofluorobenzene (S)	%	101	76-123	10/01/14 13:28	
Toluene-d8 (S)	%	106	80-120	10/01/14 13:28	

LABORATORY CONTROL SAMPLE: 1451982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	97.0	97	80-122	
1,1,1-Trichloroethane	ug/kg	100	105	105	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	89.2	89	73-120	
1,1,2-Trichloroethane	ug/kg	100	89.4	89	76-120	
1,1-Dichloroethane	ug/kg	100	107	107	71-120	
1,1-Dichloroethene	ug/kg	100	109	109	76-130	
1,1-Dichloropropene	ug/kg	100	98.7	99	77-130	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

LABORATORY CONTROL SAMPLE: 1451982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	100	100	100	80-123	
1,2,3-Trichloropropane	ug/kg	100	89.1	89	75-120	
1,2,4-Trichlorobenzene	ug/kg	100	95.5	95	80-126	
1,2,4-Trimethylbenzene	ug/kg	100	87.5	87	78-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	88.5	88	71-125	
1,2-Dibromoethane (EDB)	ug/kg	100	89.9	90	80-121	
1,2-Dichlorobenzene	ug/kg	100	96.0	96	80-120	
1,2-Dichloroethane	ug/kg	100	104	104	78-120	
1,2-Dichloroethene (Total)	ug/kg	200	218	109	79-121	
1,2-Dichloropropane	ug/kg	100	107	107	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	88.1	88	78-120	
1,3-Dichlorobenzene	ug/kg	100	97.6	98	80-120	
1,3-Dichloropropane	ug/kg	100	90.1	90	75-120	
1,4-Dichlorobenzene	ug/kg	100	93.8	94	80-120	
2,2-Dichloropropane	ug/kg	100	104	104	65-129	
2-Butanone (MEK)	ug/kg	500	556	111	55-135	
2-Chloroethylvinyl ether	ug/kg	100	130	130	47-143	
2-Chlorotoluene	ug/kg	100	93.8	94	80-120	
2-Hexanone	ug/kg	500	458	92	57-136	
4-Chlorotoluene	ug/kg	100	93.7	94	77-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	533	107	71-128	
Acetone	ug/kg	500	576	115	43-144	
Acrolein	ug/kg	1000	637	64	60-140	
Acrylonitrile	ug/kg	1000	1060	106	71-120	
Benzene	ug/kg	100	105	105	80-120	
Bromobenzene	ug/kg	100	99.0	99	80-122	
Bromochloromethane	ug/kg	100	121	121	76-122	
Bromodichloromethane	ug/kg	100	112	112	80-120	
Bromoform	ug/kg	100	95.8	96	75-124	
Bromomethane	ug/kg	100	105	105	38-150	
Carbon disulfide	ug/kg	100	117	117	58-137	
Carbon tetrachloride	ug/kg	100	112	112	75-140	
Chlorobenzene	ug/kg	100	94.4	94	80-120	
Chloroethane	ug/kg	100	109	109	65-127	
Chloroform	ug/kg	100	96.4	96	74-120	
Chloromethane	ug/kg	100	108	108	39-138	
cis-1,2-Dichloroethene	ug/kg	100	109	109	76-124	
cis-1,3-Dichloropropene	ug/kg	100	108	108	82-120	
Dibromochloromethane	ug/kg	100	94.1	94	80-124	
Dibromomethane	ug/kg	100	110	110	80-120	
Dichlorodifluoromethane	ug/kg	100	109	109	16-135	
Ethylbenzene	ug/kg	100	95.7	96	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	93.5	93	73-138	
Isopropylbenzene (Cumene)	ug/kg	100	98.9	99	80-136	
m&p-Xylene	ug/kg	200	196	98	77-120	
Methyl-tert-butyl ether	ug/kg	100	108	108	78-121	
Methylene chloride	ug/kg	100	114	114	70-123	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

LABORATORY CONTROL SAMPLE: 1451982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/kg	100	97.3	97	72-132	
n-Propylbenzene	ug/kg	100	90.7	91	72-127	
Naphthalene	ug/kg	100	92.9	93	77-126	
o-Xylene	ug/kg	100	93.6	94	80-120	
p-Isopropyltoluene	ug/kg	100	89.3	89	78-128	
sec-Butylbenzene	ug/kg	100	89.3	89	73-134	
Styrene	ug/kg	100	97.7	98	79-120	
tert-Butylbenzene	ug/kg	100	90.7	91	77-130	
Tetrachloroethene	ug/kg	100	97.1	97	78-128	
Toluene	ug/kg	100	106	106	79-120	
trans-1,2-Dichloroethene	ug/kg	100	109	109	76-124	
trans-1,3-Dichloropropene	ug/kg	100	88.4	88	80-124	
Trichloroethene	ug/kg	100	106	106	80-120	
Trichlorofluoromethane	ug/kg	100	121	121	64-126	
Vinyl acetate	ug/kg	100	97J	97	70-130	
Vinyl chloride	ug/kg	100	105	105	57-132	
Xylene (Total)	ug/kg	300	289	96	79-120	
1,2-Dichloroethane-d4 (S)	%			104	75-129	
4-Bromofluorobenzene (S)	%			103	76-123	
Toluene-d8 (S)	%			107	80-120	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

QC Batch: PMST/10070 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60179153001, 60179153002, 60179153003, 60179153004

METHOD BLANK: 1451845 Matrix: Solid
Associated Lab Samples: 60179153001, 60179153002, 60179153003, 60179153004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/01/14 00:00	

SAMPLE DUPLICATE: 1451846

Parameter	Units	60179153001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	1.3	1.1	15	20	

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QUALIFIERS

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/64777

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLEAN HARBORS WICHITA KS
Pace Project No.: 60179153

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60179153001	**BLD B-UFS 5**	EPA 8260	MSV/64777		
60179153002	**BLD B-UFS 6**	EPA 8260	MSV/64777		
60179153004	**BLD B-UFS 8**	EPA 8260	MSV/64777		
60179153005	**TRIP BLANK**	EPA 8260	MSV/64777		
60179153001	**BLD B-UFS 5**	ASTM D2974	PMST/10070		
60179153002	**BLD B-UFS 6**	ASTM D2974	PMST/10070		
60179153003	**BLD B-UFS 7**	ASTM D2974	PMST/10070		
60179153004	**BLD B-UFS 8**	ASTM D2974	PMST/10070		

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October 07, 2014

Brady Gerber
Integrated Solutions
215 S. Laura
Wichita, KS 67211

RE: Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Dear Brady Gerber:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sherri Rosenstangle
sherri.rosenstangle@pacelabs.com
Project Manager

Enclosures

PRELIMINARY

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60179521001	**BLD B-UFS 9**	Solid	10/03/14 09:40	10/03/14 22:50
60179521003	**BLD B-UFS 11**	Solid	10/03/14 10:00	10/03/14 22:50
60179521004	**BLD B-UFS 12**	Solid	10/03/14 10:15	10/03/14 22:50
60179521005	**BLD B-UFS 13**	Solid	10/03/14 10:30	10/03/14 22:50
60179521006	**TRIP BLANK**	Solid	10/03/14 09:40	10/03/14 22:50

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SAMPLE ANALYTE COUNT

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60179521001	**BLD B-UFS 9**	EPA 8260	TJT	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521003	**BLD B-UFS 11**	EPA 8260	TJT	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521004	**BLD B-UFS 12**	EPA 8260	JKL	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521005	**BLD B-UFS 13**	EPA 8260	TJT	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521006	**TRIP BLANK**	EPA 8260	JKL	74	PASI-K

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 9 **Lab ID: 60179521001** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**15.4**	ug/kg	13.6	1		10/07/14 10:04	67-64-1	
Acrolein	ND	ug/kg	67.9	1		10/07/14 10:04	107-02-8	
Acrylonitrile	ND	ug/kg	67.9	1		10/07/14 10:04	107-13-1	
Benzene	ND	ug/kg	3.4	1		10/07/14 10:04	71-43-2	
Bromobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	108-86-1	
Bromochloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-97-5	
Bromodichloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-27-4	
Bromoform	ND	ug/kg	3.4	1		10/07/14 10:04	75-25-2	
Bromomethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	6.8	1		10/07/14 10:04	78-93-3	
n-Butylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	98-06-6	
Carbon disulfide	ND	ug/kg	3.4	1		10/07/14 10:04	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.4	1		10/07/14 10:04	56-23-5	
Chlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	108-90-7	
Chloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.4	1		10/07/14 10:04	110-75-8	
Chloroform	ND	ug/kg	3.4	1		10/07/14 10:04	67-66-3	
Chloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.4	1		10/07/14 10:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.4	1		10/07/14 10:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.8	1		10/07/14 10:04	96-12-8	
Dibromochloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.4	1		10/07/14 10:04	106-93-4	
Dibromomethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.4	1		10/07/14 10:04	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.4	1		10/07/14 10:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.4	1		10/07/14 10:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.4	1		10/07/14 10:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.4	1		10/07/14 10:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.4	1		10/07/14 10:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.4	1		10/07/14 10:04	10061-02-6	
Ethylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.4	1		10/07/14 10:04	87-68-3	
2-Hexanone	ND	ug/kg	13.6	1		10/07/14 10:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.4	1		10/07/14 10:04	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 9 **Lab ID: 60179521001** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	3.4	1		10/07/14 10:04	99-87-6	
Methylene chloride	ND	ug/kg	3.4	1		10/07/14 10:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	6.8	1		10/07/14 10:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.4	1		10/07/14 10:04	1634-04-4	
Naphthalene	ND	ug/kg	6.8	1		10/07/14 10:04	91-20-3	
n-Propylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	103-65-1	
Styrene	ND	ug/kg	3.4	1		10/07/14 10:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	79-34-5	
Tetrachloroethene	**65.2**	ug/kg	3.4	1		10/07/14 10:04	127-18-4	
Toluene	ND	ug/kg	3.4	1		10/07/14 10:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	79-00-5	
Trichloroethene	**5.5**	ug/kg	3.4	1		10/07/14 10:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	108-67-8	
Vinyl acetate	ND	ug/kg	67.9	1		10/07/14 10:04	108-05-4	
Vinyl chloride	ND	ug/kg	3.4	1		10/07/14 10:04	75-01-4	
Xylene (Total)	ND	ug/kg	3.4	1		10/07/14 10:04	1330-20-7	
m&p-Xylene	ND	ug/kg	3.4	1		10/07/14 10:04	179601-23-1	
o-Xylene	ND	ug/kg	3.4	1		10/07/14 10:04	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%	80-120	1		10/07/14 10:04	2037-26-5	IS
4-Bromofluorobenzene (S)	91	%	76-123	1		10/07/14 10:04	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-129	1		10/07/14 10:04	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**14.5**	%	0.50	1		10/06/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 11 **Lab ID: 60179521003** Collected: 10/03/14 10:00 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**22.4**	ug/kg	10.6	1		10/07/14 10:19	67-64-1	
Acrolein	ND	ug/kg	52.8	1		10/07/14 10:19	107-02-8	
Acrylonitrile	ND	ug/kg	52.8	1		10/07/14 10:19	107-13-1	
Benzene	ND	ug/kg	2.6	1		10/07/14 10:19	71-43-2	
Bromobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	108-86-1	
Bromochloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-97-5	
Bromodichloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-27-4	
Bromoform	ND	ug/kg	2.6	1		10/07/14 10:19	75-25-2	
Bromomethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.3	1		10/07/14 10:19	78-93-3	
n-Butylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	98-06-6	
Carbon disulfide	ND	ug/kg	2.6	1		10/07/14 10:19	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.6	1		10/07/14 10:19	56-23-5	
Chlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	108-90-7	
Chloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.6	1		10/07/14 10:19	110-75-8	
Chloroform	ND	ug/kg	2.6	1		10/07/14 10:19	67-66-3	
Chloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.6	1		10/07/14 10:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.6	1		10/07/14 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		10/07/14 10:19	96-12-8	
Dibromochloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.6	1		10/07/14 10:19	106-93-4	
Dibromomethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.6	1		10/07/14 10:19	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.6	1		10/07/14 10:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/07/14 10:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/07/14 10:19	10061-02-6	
Ethylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	2.6	1		10/07/14 10:19	87-68-3	
2-Hexanone	ND	ug/kg	10.6	1		10/07/14 10:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	2.6	1		10/07/14 10:19	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 11 **Lab ID: 60179521003** Collected: 10/03/14 10:00 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	2.6	1		10/07/14 10:19	99-87-6	
Methylene chloride	ND	ug/kg	2.6	1		10/07/14 10:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	5.3	1		10/07/14 10:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	2.6	1		10/07/14 10:19	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		10/07/14 10:19	91-20-3	
n-Propylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	103-65-1	
Styrene	ND	ug/kg	2.6	1		10/07/14 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	79-34-5	
Tetrachloroethene	**10.4**	ug/kg	2.6	1		10/07/14 10:19	127-18-4	
Toluene	ND	ug/kg	2.6	1		10/07/14 10:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	79-00-5	
Trichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	108-67-8	
Vinyl acetate	ND	ug/kg	52.8	1		10/07/14 10:19	108-05-4	
Vinyl chloride	ND	ug/kg	2.6	1		10/07/14 10:19	75-01-4	
Xylene (Total)	ND	ug/kg	2.6	1		10/07/14 10:19	1330-20-7	
m&p-Xylene	ND	ug/kg	2.6	1		10/07/14 10:19	179601-23-1	
o-Xylene	ND	ug/kg	2.6	1		10/07/14 10:19	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1		10/07/14 10:19	2037-26-5	IS
4-Bromofluorobenzene (S)	95	%	76-123	1		10/07/14 10:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-129	1		10/07/14 10:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**1.6**	%	0.50	1		10/06/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 12 **Lab ID: 60179521004** Collected: 10/03/14 10:15 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**95.0**	ug/kg	14.9	1		10/06/14 15:16	67-64-1	
Acrolein	ND	ug/kg	74.3	1		10/06/14 15:16	107-02-8	
Acrylonitrile	ND	ug/kg	74.3	1		10/06/14 15:16	107-13-1	
Benzene	ND	ug/kg	3.7	1		10/06/14 15:16	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-27-4	
Bromoform	ND	ug/kg	3.7	1		10/06/14 15:16	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-83-9	
2-Butanone (MEK)	**8.6**	ug/kg	7.4	1		10/06/14 15:16	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	98-06-6	
Carbon disulfide	ND	ug/kg	3.7	1		10/06/14 15:16	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		10/06/14 15:16	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.7	1		10/06/14 15:16	110-75-8	
Chloroform	ND	ug/kg	3.7	1		10/06/14 15:16	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		10/06/14 15:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		10/06/14 15:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.4	1		10/06/14 15:16	96-12-8	
Dibromochloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		10/06/14 15:16	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.7	1		10/06/14 15:16	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.7	1		10/06/14 15:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		10/06/14 15:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		10/06/14 15:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		10/06/14 15:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		10/06/14 15:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		10/06/14 15:16	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		10/06/14 15:16	87-68-3	
2-Hexanone	ND	ug/kg	14.9	1		10/06/14 15:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		10/06/14 15:16	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 12 **Lab ID: 60179521004** Collected: 10/03/14 10:15 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	3.7	1		10/06/14 15:16	99-87-6	
Methylene chloride	ND	ug/kg	3.7	1		10/06/14 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**12.3**	ug/kg	7.4	1		10/06/14 15:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		10/06/14 15:16	1634-04-4	
Naphthalene	ND	ug/kg	7.4	1		10/06/14 15:16	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	103-65-1	
Styrene	ND	ug/kg	3.7	1		10/06/14 15:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	79-34-5	
Tetrachloroethene	**71.9**	ug/kg	3.7	1		10/06/14 15:16	127-18-4	
Toluene	**22.1**	ug/kg	3.7	1		10/06/14 15:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	120-82-1	
1,1,1-Trichloroethane	**9.6**	ug/kg	3.7	1		10/06/14 15:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	79-00-5	
Trichloroethene	**17.4**	ug/kg	3.7	1		10/06/14 15:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	108-67-8	
Vinyl acetate	ND	ug/kg	74.3	1		10/06/14 15:16	108-05-4	
Vinyl chloride	ND	ug/kg	3.7	1		10/06/14 15:16	75-01-4	
Xylene (Total)	**5.1**	ug/kg	3.7	1		10/06/14 15:16	1330-20-7	
m&p-Xylene	**5.1**	ug/kg	3.7	1		10/06/14 15:16	179601-23-1	
o-Xylene	ND	ug/kg	3.7	1		10/06/14 15:16	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1		10/06/14 15:16	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123	1		10/06/14 15:16	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-129	1		10/06/14 15:16	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**17.1**	%	0.50	1		10/06/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 13 **Lab ID: 60179521005** Collected: 10/03/14 10:30 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	721	50		10/07/14 12:39	67-64-1	
Acrolein	ND	ug/kg	3600	50		10/07/14 12:39	107-02-8	
Acrylonitrile	ND	ug/kg	3600	50		10/07/14 12:39	107-13-1	
Benzene	ND	ug/kg	180	50		10/07/14 12:39	71-43-2	
Bromobenzene	ND	ug/kg	180	50		10/07/14 12:39	108-86-1	
Bromochloromethane	ND	ug/kg	180	50		10/07/14 12:39	74-97-5	
Bromodichloromethane	ND	ug/kg	180	50		10/07/14 12:39	75-27-4	
Bromoform	ND	ug/kg	180	50		10/07/14 12:39	75-25-2	
Bromomethane	ND	ug/kg	180	50		10/07/14 12:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	360	50		10/07/14 12:39	78-93-3	
n-Butylbenzene	ND	ug/kg	180	50		10/07/14 12:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	180	50		10/07/14 12:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	180	50		10/07/14 12:39	98-06-6	
Carbon disulfide	ND	ug/kg	180	50		10/07/14 12:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	180	50		10/07/14 12:39	56-23-5	
Chlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	108-90-7	
Chloroethane	ND	ug/kg	180	50		10/07/14 12:39	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	180	50		10/07/14 12:39	110-75-8	
Chloroform	ND	ug/kg	180	50		10/07/14 12:39	67-66-3	
Chloromethane	ND	ug/kg	180	50		10/07/14 12:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	180	50		10/07/14 12:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	180	50		10/07/14 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	360	50		10/07/14 12:39	96-12-8	
Dibromochloromethane	ND	ug/kg	180	50		10/07/14 12:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	180	50		10/07/14 12:39	106-93-4	
Dibromomethane	ND	ug/kg	180	50		10/07/14 12:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	180	50		10/07/14 12:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	180	50		10/07/14 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	180	50		10/07/14 12:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	180	50		10/07/14 12:39	540-59-0	
1,1-Dichloroethene	ND	ug/kg	180	50		10/07/14 12:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	180	50		10/07/14 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	180	50		10/07/14 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	180	50		10/07/14 12:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	180	50		10/07/14 12:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	180	50		10/07/14 12:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	180	50		10/07/14 12:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	180	50		10/07/14 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	180	50		10/07/14 12:39	10061-02-6	
Ethylbenzene	ND	ug/kg	180	50		10/07/14 12:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	180	50		10/07/14 12:39	87-68-3	
2-Hexanone	ND	ug/kg	721	50		10/07/14 12:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	180	50		10/07/14 12:39	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 13 **Lab ID: 60179521005** Collected: 10/03/14 10:30 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	180	50		10/07/14 12:39	99-87-6	
Methylene chloride	ND	ug/kg	180	50		10/07/14 12:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	360	50		10/07/14 12:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	180	50		10/07/14 12:39	1634-04-4	
Naphthalene	ND	ug/kg	360	50		10/07/14 12:39	91-20-3	
n-Propylbenzene	ND	ug/kg	180	50		10/07/14 12:39	103-65-1	
Styrene	ND	ug/kg	180	50		10/07/14 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	180	50		10/07/14 12:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	180	50		10/07/14 12:39	79-34-5	
Tetrachloroethene	**3640**	ug/kg	180	50		10/07/14 12:39	127-18-4	
Toluene	**576**	ug/kg	180	50		10/07/14 12:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	180	50		10/07/14 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	180	50		10/07/14 12:39	79-00-5	
Trichloroethene	**223**	ug/kg	180	50		10/07/14 12:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	180	50		10/07/14 12:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	180	50		10/07/14 12:39	96-18-4	
1,2,4-Trimethylbenzene	**1340**	ug/kg	180	50		10/07/14 12:39	95-63-6	
1,3,5-Trimethylbenzene	**1050**	ug/kg	180	50		10/07/14 12:39	108-67-8	
Vinyl acetate	ND	ug/kg	3600	50		10/07/14 12:39	108-05-4	
Vinyl chloride	ND	ug/kg	180	50		10/07/14 12:39	75-01-4	
Xylene (Total)	**5120**	ug/kg	180	50		10/07/14 12:39	1330-20-7	
m&p-Xylene	**3760**	ug/kg	180	50		10/07/14 12:39	179601-23-1	
o-Xylene	**1360**	ug/kg	180	50		10/07/14 12:39	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	80-120	50		10/07/14 12:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123	50		10/07/14 12:39	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-129	50		10/07/14 12:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**14.9**	%	0.50	1		10/06/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: TRIP BLANK **Lab ID: 60179521006** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	20.0	1		10/06/14 14:30	67-64-1	
Acrolein	ND	ug/kg	100	1		10/06/14 14:30	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		10/06/14 14:30	107-13-1	
Benzene	ND	ug/kg	5.0	1		10/06/14 14:30	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/06/14 14:30	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	1		10/06/14 14:30	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		10/06/14 14:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/06/14 14:30	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	5.0	1		10/06/14 14:30	110-75-8	
Chloroform	ND	ug/kg	5.0	1		10/06/14 14:30	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/06/14 14:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/06/14 14:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.0	1		10/06/14 14:30	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/06/14 14:30	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.0	1		10/06/14 14:30	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/06/14 14:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/06/14 14:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/06/14 14:30	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/06/14 14:30	87-68-3	
2-Hexanone	ND	ug/kg	20.0	1		10/06/14 14:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/06/14 14:30	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: TRIP BLANK **Lab ID: 60179521006** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/06/14 14:30	99-87-6	
Methylene chloride	ND	ug/kg	5.0	1		10/06/14 14:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	1		10/06/14 14:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/06/14 14:30	1634-04-4	
Naphthalene	ND	ug/kg	10.0	1		10/06/14 14:30	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/06/14 14:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/06/14 14:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		10/06/14 14:30	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		10/06/14 14:30	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	1		10/06/14 14:30	1330-20-7	
m&p-Xylene	ND	ug/kg	5.0	1		10/06/14 14:30	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/06/14 14:30	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1		10/06/14 14:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123	1		10/06/14 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	75-129	1		10/06/14 14:30	17060-07-0	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

QC Batch: MSV/64856 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60179521004, 60179521006

METHOD BLANK: 1454911 | Matrix: Solid
Associated Lab Samples: 60179521004, 60179521006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1-Dichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1-Dichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
1,1-Dichloropropene	ug/kg	ND	5.0	10/06/14 12:22	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	10/06/14 12:22	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,3-Dichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
2,2-Dichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
2-Butanone (MEK)	ug/kg	ND	10.0	10/06/14 12:22	
2-Chloroethylvinyl ether	ug/kg	ND	5.0	10/06/14 12:22	
2-Chlorotoluene	ug/kg	ND	5.0	10/06/14 12:22	
2-Hexanone	ug/kg	ND	20.0	10/06/14 12:22	
4-Chlorotoluene	ug/kg	ND	5.0	10/06/14 12:22	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/06/14 12:22	
Acetone	ug/kg	ND	20.0	10/06/14 12:22	
Acrolein	ug/kg	ND	100	10/06/14 12:22	
Acrylonitrile	ug/kg	ND	100	10/06/14 12:22	
Benzene	ug/kg	ND	5.0	10/06/14 12:22	
Bromobenzene	ug/kg	ND	5.0	10/06/14 12:22	
Bromochloromethane	ug/kg	ND	5.0	10/06/14 12:22	
Bromodichloromethane	ug/kg	ND	5.0	10/06/14 12:22	
Bromoform	ug/kg	ND	5.0	10/06/14 12:22	
Bromomethane	ug/kg	ND	5.0	10/06/14 12:22	
Carbon disulfide	ug/kg	ND	5.0	10/06/14 12:22	
Carbon tetrachloride	ug/kg	ND	5.0	10/06/14 12:22	
Chlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
Chloroethane	ug/kg	ND	5.0	10/06/14 12:22	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

METHOD BLANK: 1454911 Matrix: Solid
Associated Lab Samples: 60179521004, 60179521006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/kg	ND	5.0	10/06/14 12:22	
Chloromethane	ug/kg	ND	5.0	10/06/14 12:22	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/14 12:22	
Dibromochloromethane	ug/kg	ND	5.0	10/06/14 12:22	
Dibromomethane	ug/kg	ND	5.0	10/06/14 12:22	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/06/14 12:22	
Ethylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/06/14 12:22	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/06/14 12:22	
m&p-Xylene	ug/kg	ND	5.0	10/06/14 12:22	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/06/14 12:22	
Methylene chloride	ug/kg	ND	5.0	10/06/14 12:22	
n-Butylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
n-Propylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Naphthalene	ug/kg	ND	10.0	10/06/14 12:22	
o-Xylene	ug/kg	ND	5.0	10/06/14 12:22	
p-Isopropyltoluene	ug/kg	ND	5.0	10/06/14 12:22	
sec-Butylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Styrene	ug/kg	ND	5.0	10/06/14 12:22	
tert-Butylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Tetrachloroethene	ug/kg	ND	5.0	10/06/14 12:22	
Toluene	ug/kg	ND	5.0	10/06/14 12:22	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/14 12:22	
Trichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
Trichlorofluoromethane	ug/kg	ND	5.0	10/06/14 12:22	
Vinyl acetate	ug/kg	ND	100	10/06/14 12:22	
Vinyl chloride	ug/kg	ND	5.0	10/06/14 12:22	
Xylene (Total)	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloroethane-d4 (S)	%	92	75-129	10/06/14 12:22	
4-Bromofluorobenzene (S)	%	98	76-123	10/06/14 12:22	
Toluene-d8 (S)	%	100	80-120	10/06/14 12:22	

LABORATORY CONTROL SAMPLE: 1454912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	105	105	80-122	
1,1,1-Trichloroethane	ug/kg	100	107	107	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	99.0	99	73-120	
1,1,2-Trichloroethane	ug/kg	100	103	103	76-120	
1,1-Dichloroethane	ug/kg	100	96.7	97	71-120	
1,1-Dichloroethene	ug/kg	100	103	103	76-130	
1,1-Dichloropropene	ug/kg	100	106	106	77-130	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1454912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	100	107	107	80-123	
1,2,3-Trichloropropane	ug/kg	100	102	102	75-120	
1,2,4-Trichlorobenzene	ug/kg	100	105	105	80-126	
1,2,4-Trimethylbenzene	ug/kg	100	98.0	98	78-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	95.1	95	71-125	
1,2-Dibromoethane (EDB)	ug/kg	100	104	104	80-121	
1,2-Dichlorobenzene	ug/kg	100	103	103	80-120	
1,2-Dichloroethane	ug/kg	100	101	101	78-120	
1,2-Dichloroethene (Total)	ug/kg	200	208	104	79-121	
1,2-Dichloropropane	ug/kg	100	103	103	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	100	100	78-120	
1,3-Dichlorobenzene	ug/kg	100	102	102	80-120	
1,3-Dichloropropane	ug/kg	100	102	102	75-120	
1,4-Dichlorobenzene	ug/kg	100	101	101	80-120	
2,2-Dichloropropane	ug/kg	100	99.4	99	65-129	
2-Butanone (MEK)	ug/kg	500	460	92	55-135	
2-Chloroethylvinyl ether	ug/kg	100	97.6	98	47-143	
2-Chlorotoluene	ug/kg	100	102	102	80-120	
2-Hexanone	ug/kg	500	485	97	57-136	
4-Chlorotoluene	ug/kg	100	100	100	77-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	506	101	71-128	
Acetone	ug/kg	500	506	101	43-144	
Acrolein	ug/kg	1000	833	83	60-140	
Acrylonitrile	ug/kg	1000	994	99	71-120	
Benzene	ug/kg	100	98.3	98	80-120	
Bromobenzene	ug/kg	100	103	103	80-122	
Bromochloromethane	ug/kg	100	96.3	96	76-122	
Bromodichloromethane	ug/kg	100	104	104	80-120	
Bromoform	ug/kg	100	112	112	75-124	
Bromomethane	ug/kg	100	121	121	38-150	
Carbon disulfide	ug/kg	100	99.9	100	58-137	
Carbon tetrachloride	ug/kg	100	124	124	75-140	
Chlorobenzene	ug/kg	100	104	104	80-120	
Chloroethane	ug/kg	100	92.0	92	65-127	
Chloroform	ug/kg	100	100	100	74-120	
Chloromethane	ug/kg	100	119	119	39-138	
cis-1,2-Dichloroethene	ug/kg	100	103	103	76-124	
cis-1,3-Dichloropropene	ug/kg	100	103	103	82-120	
Dibromochloromethane	ug/kg	100	103	103	80-124	
Dibromomethane	ug/kg	100	104	104	80-120	
Dichlorodifluoromethane	ug/kg	100	101	101	16-135	
Ethylbenzene	ug/kg	100	105	105	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	103	103	73-138	
Isopropylbenzene (Cumene)	ug/kg	100	112	112	80-136	
m&p-Xylene	ug/kg	200	206	103	77-120	
Methyl-tert-butyl ether	ug/kg	100	100	100	78-121	
Methylene chloride	ug/kg	100	100	100	70-123	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1454912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/kg	100	101	101	72-132	
n-Propylbenzene	ug/kg	100	98.9	99	72-127	
Naphthalene	ug/kg	100	108	108	77-126	
o-Xylene	ug/kg	100	105	105	80-120	
p-Isopropyltoluene	ug/kg	100	99.9	100	78-128	
sec-Butylbenzene	ug/kg	100	98.2	98	73-134	
Styrene	ug/kg	100	105	105	79-120	
tert-Butylbenzene	ug/kg	100	102	102	77-130	
Tetrachloroethene	ug/kg	100	101	101	78-128	
Toluene	ug/kg	100	104	104	79-120	
trans-1,2-Dichloroethene	ug/kg	100	105	105	76-124	
trans-1,3-Dichloropropene	ug/kg	100	108	108	80-124	
Trichloroethene	ug/kg	100	98.8	99	80-120	
Trichlorofluoromethane	ug/kg	100	99.4	99	64-126	
Vinyl acetate	ug/kg	100	91.4J	91	70-130	
Vinyl chloride	ug/kg	100	105	105	57-132	
Xylene (Total)	ug/kg	300	311	104	79-120	
1,2-Dichloroethane-d4 (S)	%			94	75-129	
4-Bromofluorobenzene (S)	%			100	76-123	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454913 1454914

Parameter	Units	60179286002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	124	122	93.7	97.2	75	80	10-151	4	44	
1,1,1-Trichloroethane	ug/kg	ND	124	122	109	106	88	87	21-144	2	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	124	122	84.3	82.6	68	68	10-151	2	46	
1,1,2-Trichloroethane	ug/kg	ND	124	122	94.4	95.6	76	78	10-140	1	46	
1,1-Dichloroethane	ug/kg	ND	124	122	94.3	92.4	76	76	19-137	2	43	
1,1-Dichloroethene	ug/kg	ND	124	122	104	102	84	84	27-143	2	41	
1,1-Dichloropropene	ug/kg	ND	124	122	106	104	86	85	19-144	2	43	
1,2,3-Trichlorobenzene	ug/kg	ND	124	122	95.1	92.6	77	76	10-147	3	50	
1,2,3-Trichloropropane	ug/kg	ND	124	122	89.5	90.7	72	74	10-151	1	46	
1,2,4-Trichlorobenzene	ug/kg	ND	124	122	96.2	90.9	77	75	10-146	6	50	
1,2,4-Trimethylbenzene	ug/kg	ND	124	122	89.6	89.8	72	74	10-145	0	49	
1,2-Dibromo-3-chloropropane	ug/kg	ND	124	122	93.7	84.8	75	70	10-152	10	48	
1,2-Dibromoethane (EDB)	ug/kg	ND	124	122	97.1	101	78	82	13-153	3	40	
1,2-Dichlorobenzene	ug/kg	ND	124	122	92.9	91.7	75	75	10-147	1	48	
1,2-Dichloroethane	ug/kg	ND	124	122	95.9	109	77	89	21-147	13	38	
1,2-Dichloroethene (Total)	ug/kg	ND	249	244	202	194	81	79	21-139	4	44	
1,2-Dichloropropane	ug/kg	ND	124	122	99.3	95.9	80	79	15-145	3	43	
1,3,5-Trimethylbenzene	ug/kg	ND	124	122	92.8	91.6	75	75	10-144	1	48	
1,3-Dichlorobenzene	ug/kg	ND	124	122	91.0	91.8	73	75	10-143	1	49	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454913 1454914

Parameter	Units	60179286002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichloropropane	ug/kg	ND	124	122	91.9	93.3	74	76	10-135	1	42	
1,4-Dichlorobenzene	ug/kg	ND	124	122	91.1	89.5	73	73	10-144	2	48	
2,2-Dichloropropane	ug/kg	ND	124	122	98.2	96.6	79	79	16-137	2	44	
2-Butanone (MEK)	ug/kg	ND	621	610	462	435	74	71	10-160	6	50	
2-Chloroethylvinyl ether	ug/kg	ND	124	122	92.0	90.6	74	74	10-139	2	49	
2-Chlorotoluene	ug/kg	ND	124	122	90.9	86.9	73	71	10-143	5	48	
2-Hexanone	ug/kg	ND	621	610	466	468	75	77	10-160	1	50	
4-Chlorotoluene	ug/kg	ND	124	122	90.8	90.6	73	74	10-144	0	47	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	621	610	492	487	79	80	10-152	1	47	
Acetone	ug/kg	ND	621	610	518	488	83	80	10-160	6	49	
Acrolein	ug/kg	ND	1240	1220	1090	1090	88	89	10-160	1	43	
Acrylonitrile	ug/kg	ND	1240	1220	963	950	78	78	10-148	1	44	
Benzene	ug/kg	ND	124	122	93.9	108	76	88	22-144	14	38	
Bromobenzene	ug/kg	ND	124	122	96.0	97.8	77	80	10-150	2	46	
Bromochloromethane	ug/kg	ND	124	122	95.1	93.5	77	77	17-142	2	45	
Bromodichloromethane	ug/kg	ND	124	122	96.5	95.8	78	79	10-143	1	42	
Bromoform	ug/kg	ND	124	122	105	106	85	87	10-145	1	44	
Bromomethane	ug/kg	ND	124	122	108	111	87	91	10-137	3	47	
Carbon disulfide	ug/kg	ND	124	122	100	98.4	81	81	10-142	2	44	
Carbon tetrachloride	ug/kg	ND	124	122	127	126	102	103	15-153	0	45	
Chlorobenzene	ug/kg	ND	124	122	94.3	98.7	76	81	10-145	4	46	
Chloroethane	ug/kg	ND	124	122	88.3	89.0	71	73	17-134	1	42	
Chloroform	ug/kg	ND	124	122	95.8	95.1	77	78	17-138	1	44	
Chloromethane	ug/kg	ND	124	122	113	114	91	94	10-128	1	39	
cis-1,2-Dichloroethene	ug/kg	ND	124	122	98.8	95.0	80	78	17-140	4	46	
cis-1,3-Dichloropropene	ug/kg	ND	124	122	97.8	94.5	79	77	10-142	3	43	
Dibromochloromethane	ug/kg	ND	124	122	97.7	96.5	79	79	10-149	1	42	
Dibromomethane	ug/kg	ND	124	122	95.8	92.2	77	76	14-144	4	46	
Dichlorodifluoromethane	ug/kg	ND	124	122	104	106	84	87	10-130	2	31	
Ethylbenzene	ug/kg	ND	124	122	100	101	81	83	10-154	1	42	
Hexachloro-1,3-butadiene	ug/kg	ND	124	122	96.6	96.3	78	79	10-151	0	50	
Isopropylbenzene (Cumene)	ug/kg	ND	124	122	108	110	87	90	10-159	2	49	
m&p-Xylene	ug/kg	ND	249	244	197	198	79	81	10-155	1	41	
Methyl-tert-butyl ether	ug/kg	ND	124	122	94.8	92.7	76	76	20-148	2	38	
Methylene chloride	ug/kg	ND	124	122	97.7	95.2	76	75	15-140	3	46	
n-Butylbenzene	ug/kg	ND	124	122	96.0	96.1	77	79	10-148	0	50	
n-Propylbenzene	ug/kg	ND	124	122	91.8	92.5	74	76	10-146	1	50	
Naphthalene	ug/kg	ND	124	122	99.3	97.4	80	80	10-160	2	45	
o-Xylene	ug/kg	ND	124	122	98.6	98.8	79	81	10-154	0	40	
p-Isopropyltoluene	ug/kg	ND	124	122	94.6	92.6	76	76	10-149	2	49	
sec-Butylbenzene	ug/kg	ND	124	122	92.8	92.3	75	76	10-150	1	50	
Styrene	ug/kg	ND	124	122	98.2	100	79	82	10-142	2	44	
tert-Butylbenzene	ug/kg	ND	124	122	94.6	92.7	76	76	10-151	2	48	
Tetrachloroethene	ug/kg	ND	124	122	101	104	81	85	10-150	3	48	
Toluene	ug/kg	ND	124	122	95.7	96.8	77	79	11-150	1	40	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454913 1454914

Parameter	Units	60179286002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/kg	ND	124	122	103	99.0	83	81	20-140	4	42	
trans-1,3-Dichloropropene	ug/kg	ND	124	122	102	103	82	84	10-149	1	41	
Trichloroethene	ug/kg	ND	124	122	103	104	83	85	14-146	1	45	
Trichlorofluoromethane	ug/kg	ND	124	122	104	101	84	83	24-130	4	41	
Vinyl acetate	ug/kg	ND	124	122	85.2J	82.4J	69	68	70-130		30	M1
Vinyl chloride	ug/kg	ND	124	122	106	102	86	84	19-131	4	37	
Xylene (Total)	ug/kg	ND	372	366	295	296	79	81	10-154	0	41	
1,2-Dichloroethane-d4 (S)	%						97	120	75-129			
4-Bromofluorobenzene (S)	%						99	101	76-123			
Toluene-d8 (S)	%						102	103	80-120			

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

QC Batch: MSV/64866 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60179521001, 60179521003, 60179521005

METHOD BLANK: 1455166 Matrix: Solid
Associated Lab Samples: 60179521001, 60179521003, 60179521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1-Dichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1-Dichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
1,1-Dichloropropene	ug/kg	ND	5.0	10/07/14 09:48	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	10/07/14 09:48	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,3-Dichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
2,2-Dichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
2-Butanone (MEK)	ug/kg	ND	10.0	10/07/14 09:48	
2-Chloroethylvinyl ether	ug/kg	ND	5.0	10/07/14 09:48	
2-Chlorotoluene	ug/kg	ND	5.0	10/07/14 09:48	
2-Hexanone	ug/kg	ND	20.0	10/07/14 09:48	
4-Chlorotoluene	ug/kg	ND	5.0	10/07/14 09:48	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/07/14 09:48	
Acetone	ug/kg	ND	20.0	10/07/14 09:48	
Acrolein	ug/kg	ND	100	10/07/14 09:48	
Acrylonitrile	ug/kg	ND	100	10/07/14 09:48	
Benzene	ug/kg	ND	5.0	10/07/14 09:48	
Bromobenzene	ug/kg	ND	5.0	10/07/14 09:48	
Bromochloromethane	ug/kg	ND	5.0	10/07/14 09:48	
Bromodichloromethane	ug/kg	ND	5.0	10/07/14 09:48	
Bromoform	ug/kg	ND	5.0	10/07/14 09:48	
Bromomethane	ug/kg	ND	5.0	10/07/14 09:48	
Carbon disulfide	ug/kg	ND	5.0	10/07/14 09:48	
Carbon tetrachloride	ug/kg	ND	5.0	10/07/14 09:48	
Chlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
Chloroethane	ug/kg	ND	5.0	10/07/14 09:48	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

METHOD BLANK: 1455166 Matrix: Solid
Associated Lab Samples: 60179521001, 60179521003, 60179521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/kg	ND	5.0	10/07/14 09:48	
Chloromethane	ug/kg	ND	5.0	10/07/14 09:48	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/07/14 09:48	
Dibromochloromethane	ug/kg	ND	5.0	10/07/14 09:48	
Dibromomethane	ug/kg	ND	5.0	10/07/14 09:48	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/07/14 09:48	
Ethylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/07/14 09:48	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/07/14 09:48	
m&p-Xylene	ug/kg	ND	5.0	10/07/14 09:48	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/07/14 09:48	
Methylene chloride	ug/kg	ND	5.0	10/07/14 09:48	
n-Butylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
n-Propylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Naphthalene	ug/kg	ND	10.0	10/07/14 09:48	
o-Xylene	ug/kg	ND	5.0	10/07/14 09:48	
p-Isopropyltoluene	ug/kg	ND	5.0	10/07/14 09:48	
sec-Butylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Styrene	ug/kg	ND	5.0	10/07/14 09:48	
tert-Butylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Tetrachloroethene	ug/kg	ND	5.0	10/07/14 09:48	
Toluene	ug/kg	ND	5.0	10/07/14 09:48	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/07/14 09:48	
Trichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
Trichlorofluoromethane	ug/kg	ND	5.0	10/07/14 09:48	
Vinyl acetate	ug/kg	ND	100	10/07/14 09:48	
Vinyl chloride	ug/kg	ND	5.0	10/07/14 09:48	
Xylene (Total)	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloroethane-d4 (S)	%	103	75-129	10/07/14 09:48	
4-Bromofluorobenzene (S)	%	98	76-123	10/07/14 09:48	
Toluene-d8 (S)	%	101	80-120	10/07/14 09:48	

LABORATORY CONTROL SAMPLE: 1455167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	109	109	80-122	
1,1,1-Trichloroethane	ug/kg	100	108	108	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	106	106	73-120	
1,1,2-Trichloroethane	ug/kg	100	104	104	76-120	
1,1-Dichloroethane	ug/kg	100	103	103	71-120	
1,1-Dichloroethene	ug/kg	100	106	106	76-130	
1,1-Dichloropropene	ug/kg	100	108	108	77-130	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1455167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	100	106	106	80-123	
1,2,3-Trichloropropane	ug/kg	100	103	103	75-120	
1,2,4-Trichlorobenzene	ug/kg	100	104	104	80-126	
1,2,4-Trimethylbenzene	ug/kg	100	104	104	78-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	109	109	71-125	
1,2-Dibromoethane (EDB)	ug/kg	100	102	102	80-121	
1,2-Dichlorobenzene	ug/kg	100	105	105	80-120	
1,2-Dichloroethane	ug/kg	100	102	102	78-120	
1,2-Dichloroethene (Total)	ug/kg	200	208	104	79-121	
1,2-Dichloropropane	ug/kg	100	106	106	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	107	107	78-120	
1,3-Dichlorobenzene	ug/kg	100	107	107	80-120	
1,3-Dichloropropane	ug/kg	100	106	106	75-120	
1,4-Dichlorobenzene	ug/kg	100	101	101	80-120	
2,2-Dichloropropane	ug/kg	100	106	106	65-129	
2-Butanone (MEK)	ug/kg	500	477	95	55-135	
2-Chloroethylvinyl ether	ug/kg	100	70.0	70	47-143	
2-Chlorotoluene	ug/kg	100	106	106	80-120	
2-Hexanone	ug/kg	500	513	103	57-136	
4-Chlorotoluene	ug/kg	100	108	108	77-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	507	101	71-128	
Acetone	ug/kg	500	455	91	43-144	
Acrolein	ug/kg	1000	777	78	60-140	
Acrylonitrile	ug/kg	1000	1000	100	71-120	
Benzene	ug/kg	100	104	104	80-120	
Bromobenzene	ug/kg	100	108	108	80-122	
Bromochloromethane	ug/kg	100	106	106	76-122	
Bromodichloromethane	ug/kg	100	109	109	80-120	
Bromoform	ug/kg	100	98.3	98	75-124	
Bromomethane	ug/kg	100	102	102	38-150	
Carbon disulfide	ug/kg	100	115	115	58-137	
Carbon tetrachloride	ug/kg	100	116	116	75-140	
Chlorobenzene	ug/kg	100	103	103	80-120	
Chloroethane	ug/kg	100	102	102	65-127	
Chloroform	ug/kg	100	104	104	74-120	
Chloromethane	ug/kg	100	110	110	39-138	
cis-1,2-Dichloroethene	ug/kg	100	103	103	76-124	
cis-1,3-Dichloropropene	ug/kg	100	105	105	82-120	
Dibromochloromethane	ug/kg	100	111	111	80-124	
Dibromomethane	ug/kg	100	106	106	80-120	
Dichlorodifluoromethane	ug/kg	100	117	117	16-135	
Ethylbenzene	ug/kg	100	109	109	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	112	112	73-138	
Isopropylbenzene (Cumene)	ug/kg	100	119	119	80-136	
m&p-Xylene	ug/kg	200	212	106	77-120	
Methyl-tert-butyl ether	ug/kg	100	95.5	95	78-121	
Methylene chloride	ug/kg	100	99.3	99	70-123	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1455167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/kg	100	112	112	72-132	
n-Propylbenzene	ug/kg	100	106	106	72-127	
Naphthalene	ug/kg	100	104	104	77-126	
o-Xylene	ug/kg	100	107	107	80-120	
p-Isopropyltoluene	ug/kg	100	107	107	78-128	
sec-Butylbenzene	ug/kg	100	109	109	73-134	
Styrene	ug/kg	100	108	108	79-120	
tert-Butylbenzene	ug/kg	100	108	108	77-130	
Tetrachloroethene	ug/kg	100	112	112	78-128	
Toluene	ug/kg	100	101	101	79-120	
trans-1,2-Dichloroethene	ug/kg	100	105	105	76-124	
trans-1,3-Dichloropropene	ug/kg	100	118	118	80-124	
Trichloroethene	ug/kg	100	107	107	80-120	
Trichlorofluoromethane	ug/kg	100	110	110	64-126	
Vinyl acetate	ug/kg	100	91.2J	91	70-130	
Vinyl chloride	ug/kg	100	112	112	57-132	
Xylene (Total)	ug/kg	300	319	106	79-120	
1,2-Dichloroethane-d4 (S)	%			97	75-129	
4-Bromofluorobenzene (S)	%			100	76-123	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

QC Batch: PMST/10081 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60179521001, 60179521003, 60179521004, 60179521005

METHOD BLANK: 1454725 Matrix: Solid
Associated Lab Samples: 60179521001, 60179521003, 60179521004, 60179521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/06/14 00:00	

SAMPLE DUPLICATE: 1454726

Parameter	Units	60179521001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.5	14.5	0	20	

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QUALIFIERS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

IS	The internal standard response is below criteria. Results may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60179521001	**BLD B-UFS 9**	EPA 8260	MSV/64866		
60179521003	**BLD B-UFS 11**	EPA 8260	MSV/64866		
60179521004	**BLD B-UFS 12**	EPA 8260	MSV/64856		
60179521005	**BLD B-UFS 13**	EPA 8260	MSV/64866		
60179521006	**TRIP BLANK**	EPA 8260	MSV/64856		
60179521001	**BLD B-UFS 9**	ASTM D2974	PMST/10081		
60179521003	**BLD B-UFS 11**	ASTM D2974	PMST/10081		
60179521004	**BLD B-UFS 12**	ASTM D2974	PMST/10081		
60179521005	**BLD B-UFS 13**	ASTM D2974	PMST/10081		

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October 07, 2014

Brady Gerber
Integrated Solutions
215 S. Laura
Wichita, KS 67211

RE: Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Dear Brady Gerber:
Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sherri Rosenstangle

Sherri Rosenstangle
sherri.rosenstangle@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

Dallas Certification IDs:
400 West Bethany Dr Suite 190 75013 Allen TX 75013
EPA# TX00074
Texas Certification #: T104704232-14-8
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2014-055
Louisiana Certification #: 02007

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SAMPLE SUMMARY

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60179521001	**BLD B-UFS 9**	Solid	10/03/14 09:40	10/03/14 22:50
60179521003	**BLD B-UFS 11**	Solid	10/03/14 10:00	10/03/14 22:50
60179521004	**BLD B-UFS 12**	Solid	10/03/14 10:15	10/03/14 22:50
60179521005	**BLD B-UFS 13**	Solid	10/03/14 10:30	10/03/14 22:50
60179521006	**TRIP BLANK**	Solid	10/03/14 09:40	10/03/14 22:50

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SAMPLE ANALYTE COUNT

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60179521001	BLD B-UFS 9	EPA 8270 by SIM	XLY	2	PASI-D
		EPA 8260	TJT	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521003	BLD B-UFS 11	EPA 8270 by SIM	XLY	2	PASI-D
		EPA 8260	TJT	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521004	BLD B-UFS 12	EPA 8270 by SIM	XLY	2	PASI-D
		EPA 8260	JKL	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521005	BLD B-UFS 13	EPA 8270 by SIM	XLY	2	PASI-D
		EPA 8260	TJT	74	PASI-K
		ASTM D2974	DWC	1	PASI-K
60179521006	TRIP BLANK	EPA 8260	JKL	74	PASI-K

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 9 **Lab ID: 60179521001** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	**49.7**	ug/kg	38.9	5	10/06/14 12:00	10/07/14 11:55	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	38	%.	10-140	5	10/06/14 12:00	10/07/14 11:55		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**15.4**	ug/kg	13.6	1		10/07/14 10:04	67-64-1	
Acrolein	ND	ug/kg	67.9	1		10/07/14 10:04	107-02-8	
Acrylonitrile	ND	ug/kg	67.9	1		10/07/14 10:04	107-13-1	
Benzene	ND	ug/kg	3.4	1		10/07/14 10:04	71-43-2	
Bromobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	108-86-1	
Bromochloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-97-5	
Bromodichloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-27-4	
Bromoform	ND	ug/kg	3.4	1		10/07/14 10:04	75-25-2	
Bromomethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	6.8	1		10/07/14 10:04	78-93-3	
n-Butylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	98-06-6	
Carbon disulfide	ND	ug/kg	3.4	1		10/07/14 10:04	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.4	1		10/07/14 10:04	56-23-5	
Chlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	108-90-7	
Chloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.4	1		10/07/14 10:04	110-75-8	
Chloroform	ND	ug/kg	3.4	1		10/07/14 10:04	67-66-3	
Chloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.4	1		10/07/14 10:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.4	1		10/07/14 10:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.8	1		10/07/14 10:04	96-12-8	
Dibromochloromethane	ND	ug/kg	3.4	1		10/07/14 10:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.4	1		10/07/14 10:04	106-93-4	
Dibromomethane	ND	ug/kg	3.4	1		10/07/14 10:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.4	1		10/07/14 10:04	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.4	1		10/07/14 10:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.4	1		10/07/14 10:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.4	1		10/07/14 10:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.4	1		10/07/14 10:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.4	1		10/07/14 10:04	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 9 **Lab ID: 60179521001** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	ND	ug/kg	3.4	1		10/07/14 10:04	10061-02-6	
Ethylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.4	1		10/07/14 10:04	87-68-3	
2-Hexanone	ND	ug/kg	13.6	1		10/07/14 10:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.4	1		10/07/14 10:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.4	1		10/07/14 10:04	99-87-6	
Methylene chloride	ND	ug/kg	3.4	1		10/07/14 10:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	6.8	1		10/07/14 10:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.4	1		10/07/14 10:04	1634-04-4	
Naphthalene	ND	ug/kg	6.8	1		10/07/14 10:04	91-20-3	
n-Propylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	103-65-1	
Styrene	ND	ug/kg	3.4	1		10/07/14 10:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	79-34-5	
Tetrachloroethene	**65.2**	ug/kg	3.4	1		10/07/14 10:04	127-18-4	
Toluene	ND	ug/kg	3.4	1		10/07/14 10:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.4	1		10/07/14 10:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.4	1		10/07/14 10:04	79-00-5	
Trichloroethene	**5.5**	ug/kg	3.4	1		10/07/14 10:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.4	1		10/07/14 10:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.4	1		10/07/14 10:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.4	1		10/07/14 10:04	108-67-8	
Vinyl acetate	ND	ug/kg	67.9	1		10/07/14 10:04	108-05-4	
Vinyl chloride	ND	ug/kg	3.4	1		10/07/14 10:04	75-01-4	
Xylene (Total)	ND	ug/kg	3.4	1		10/07/14 10:04	1330-20-7	
m&p-Xylene	ND	ug/kg	3.4	1		10/07/14 10:04	179601-23-1	
o-Xylene	ND	ug/kg	3.4	1		10/07/14 10:04	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%	80-120	1		10/07/14 10:04	2037-26-5	IS
4-Bromofluorobenzene (S)	91	%	76-123	1		10/07/14 10:04	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-129	1		10/07/14 10:04	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**14.5**	%	0.50	1		10/06/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 11 **Lab ID: 60179521003** Collected: 10/03/14 10:00 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	ND	ug/kg	6.8	1	10/06/14 12:00	10/06/14 19:37	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	28	%.	10-140	1	10/06/14 12:00	10/06/14 19:37		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**22.4**	ug/kg	10.6	1		10/07/14 10:19	67-64-1	
Acrolein	ND	ug/kg	52.8	1		10/07/14 10:19	107-02-8	
Acrylonitrile	ND	ug/kg	52.8	1		10/07/14 10:19	107-13-1	
Benzene	ND	ug/kg	2.6	1		10/07/14 10:19	71-43-2	
Bromobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	108-86-1	
Bromochloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-97-5	
Bromodichloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-27-4	
Bromoform	ND	ug/kg	2.6	1		10/07/14 10:19	75-25-2	
Bromomethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	5.3	1		10/07/14 10:19	78-93-3	
n-Butylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	98-06-6	
Carbon disulfide	ND	ug/kg	2.6	1		10/07/14 10:19	75-15-0	
Carbon tetrachloride	ND	ug/kg	2.6	1		10/07/14 10:19	56-23-5	
Chlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	108-90-7	
Chloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	2.6	1		10/07/14 10:19	110-75-8	
Chloroform	ND	ug/kg	2.6	1		10/07/14 10:19	67-66-3	
Chloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	2.6	1		10/07/14 10:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	2.6	1		10/07/14 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		10/07/14 10:19	96-12-8	
Dibromochloromethane	ND	ug/kg	2.6	1		10/07/14 10:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	2.6	1		10/07/14 10:19	106-93-4	
Dibromomethane	ND	ug/kg	2.6	1		10/07/14 10:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	2.6	1		10/07/14 10:19	540-59-0	
1,1-Dichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	2.6	1		10/07/14 10:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/07/14 10:19	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 11 **Lab ID: 60179521003** Collected: 10/03/14 10:00 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	ND	ug/kg	2.6	1		10/07/14 10:19	10061-02-6	
Ethylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	2.6	1		10/07/14 10:19	87-68-3	
2-Hexanone	ND	ug/kg	10.6	1		10/07/14 10:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	2.6	1		10/07/14 10:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	2.6	1		10/07/14 10:19	99-87-6	
Methylene chloride	ND	ug/kg	2.6	1		10/07/14 10:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	5.3	1		10/07/14 10:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	2.6	1		10/07/14 10:19	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		10/07/14 10:19	91-20-3	
n-Propylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	103-65-1	
Styrene	ND	ug/kg	2.6	1		10/07/14 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	79-34-5	
Tetrachloroethene	**10.4**	ug/kg	2.6	1		10/07/14 10:19	127-18-4	
Toluene	ND	ug/kg	2.6	1		10/07/14 10:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	2.6	1		10/07/14 10:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	2.6	1		10/07/14 10:19	79-00-5	
Trichloroethene	ND	ug/kg	2.6	1		10/07/14 10:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	2.6	1		10/07/14 10:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	2.6	1		10/07/14 10:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	2.6	1		10/07/14 10:19	108-67-8	
Vinyl acetate	ND	ug/kg	52.8	1		10/07/14 10:19	108-05-4	
Vinyl chloride	ND	ug/kg	2.6	1		10/07/14 10:19	75-01-4	
Xylene (Total)	ND	ug/kg	2.6	1		10/07/14 10:19	1330-20-7	
m&p-Xylene	ND	ug/kg	2.6	1		10/07/14 10:19	179601-23-1	
o-Xylene	ND	ug/kg	2.6	1		10/07/14 10:19	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1		10/07/14 10:19	2037-26-5	IS
4-Bromofluorobenzene (S)	95	%	76-123	1		10/07/14 10:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-129	1		10/07/14 10:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**1.6**	%	0.50	1		10/06/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 12 **Lab ID: 60179521004** Collected: 10/03/14 10:15 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	**88.8**	ug/kg	40.2	5	10/06/14 12:00	10/07/14 12:14	123-91-1	
Surrogates								
1,4-Dioxane-d8(S)	27	%.	10-140	5	10/06/14 12:00	10/07/14 12:14		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	**95.0**	ug/kg	14.9	1		10/06/14 15:16	67-64-1	
Acrolein	ND	ug/kg	74.3	1		10/06/14 15:16	107-02-8	
Acrylonitrile	ND	ug/kg	74.3	1		10/06/14 15:16	107-13-1	
Benzene	ND	ug/kg	3.7	1		10/06/14 15:16	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-27-4	
Bromoform	ND	ug/kg	3.7	1		10/06/14 15:16	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-83-9	
2-Butanone (MEK)	**8.6**	ug/kg	7.4	1		10/06/14 15:16	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	98-06-6	
Carbon disulfide	ND	ug/kg	3.7	1		10/06/14 15:16	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		10/06/14 15:16	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	3.7	1		10/06/14 15:16	110-75-8	
Chloroform	ND	ug/kg	3.7	1		10/06/14 15:16	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		10/06/14 15:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		10/06/14 15:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.4	1		10/06/14 15:16	96-12-8	
Dibromochloromethane	ND	ug/kg	3.7	1		10/06/14 15:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		10/06/14 15:16	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		10/06/14 15:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	3.7	1		10/06/14 15:16	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.7	1		10/06/14 15:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		10/06/14 15:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		10/06/14 15:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		10/06/14 15:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		10/06/14 15:16	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 12 **Lab ID: 60179521004** Collected: 10/03/14 10:15 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		10/06/14 15:16	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		10/06/14 15:16	87-68-3	
2-Hexanone	ND	ug/kg	14.9	1		10/06/14 15:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	1		10/06/14 15:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		10/06/14 15:16	99-87-6	
Methylene chloride	ND	ug/kg	3.7	1		10/06/14 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**12.3**	ug/kg	7.4	1		10/06/14 15:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		10/06/14 15:16	1634-04-4	
Naphthalene	ND	ug/kg	7.4	1		10/06/14 15:16	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	103-65-1	
Styrene	ND	ug/kg	3.7	1		10/06/14 15:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	79-34-5	
Tetrachloroethene	**71.9**	ug/kg	3.7	1		10/06/14 15:16	127-18-4	
Toluene	**22.1**	ug/kg	3.7	1		10/06/14 15:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		10/06/14 15:16	120-82-1	
1,1,1-Trichloroethane	**9.6**	ug/kg	3.7	1		10/06/14 15:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		10/06/14 15:16	79-00-5	
Trichloroethene	**17.4**	ug/kg	3.7	1		10/06/14 15:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		10/06/14 15:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		10/06/14 15:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		10/06/14 15:16	108-67-8	
Vinyl acetate	ND	ug/kg	74.3	1		10/06/14 15:16	108-05-4	
Vinyl chloride	ND	ug/kg	3.7	1		10/06/14 15:16	75-01-4	
Xylene (Total)	**5.1**	ug/kg	3.7	1		10/06/14 15:16	1330-20-7	
m&p-Xylene	**5.1**	ug/kg	3.7	1		10/06/14 15:16	179601-23-1	
o-Xylene	ND	ug/kg	3.7	1		10/06/14 15:16	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1		10/06/14 15:16	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123	1		10/06/14 15:16	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	75-129	1		10/06/14 15:16	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**17.1**	%	0.50	1		10/06/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 13 **Lab ID: 60179521005** Collected: 10/03/14 10:30 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV 1.4 Dioxane By SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
1,4-Dioxane (p-Dioxane)	**17.5**	ug/kg	7.8	1	10/06/14 12:00	10/06/14 20:12	123-91-1	IS
Surrogates								
1,4-Dioxane-d8(S)	21	%.	10-140	1	10/06/14 12:00	10/06/14 20:12		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	721	50		10/07/14 12:39	67-64-1	
Acrolein	ND	ug/kg	3600	50		10/07/14 12:39	107-02-8	
Acrylonitrile	ND	ug/kg	3600	50		10/07/14 12:39	107-13-1	
Benzene	ND	ug/kg	180	50		10/07/14 12:39	71-43-2	
Bromobenzene	ND	ug/kg	180	50		10/07/14 12:39	108-86-1	
Bromochloromethane	ND	ug/kg	180	50		10/07/14 12:39	74-97-5	
Bromodichloromethane	ND	ug/kg	180	50		10/07/14 12:39	75-27-4	
Bromoform	ND	ug/kg	180	50		10/07/14 12:39	75-25-2	
Bromomethane	ND	ug/kg	180	50		10/07/14 12:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	360	50		10/07/14 12:39	78-93-3	
n-Butylbenzene	ND	ug/kg	180	50		10/07/14 12:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	180	50		10/07/14 12:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	180	50		10/07/14 12:39	98-06-6	
Carbon disulfide	ND	ug/kg	180	50		10/07/14 12:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	180	50		10/07/14 12:39	56-23-5	
Chlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	108-90-7	
Chloroethane	ND	ug/kg	180	50		10/07/14 12:39	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	180	50		10/07/14 12:39	110-75-8	
Chloroform	ND	ug/kg	180	50		10/07/14 12:39	67-66-3	
Chloromethane	ND	ug/kg	180	50		10/07/14 12:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	180	50		10/07/14 12:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	180	50		10/07/14 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	360	50		10/07/14 12:39	96-12-8	
Dibromochloromethane	ND	ug/kg	180	50		10/07/14 12:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	180	50		10/07/14 12:39	106-93-4	
Dibromomethane	ND	ug/kg	180	50		10/07/14 12:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	180	50		10/07/14 12:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	180	50		10/07/14 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	180	50		10/07/14 12:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	180	50		10/07/14 12:39	540-59-0	
1,1-Dichloroethene	ND	ug/kg	180	50		10/07/14 12:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	180	50		10/07/14 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	180	50		10/07/14 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	180	50		10/07/14 12:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	180	50		10/07/14 12:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	180	50		10/07/14 12:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	180	50		10/07/14 12:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	180	50		10/07/14 12:39	10061-01-5	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: BLD B-UFS 13 **Lab ID: 60179521005** Collected: 10/03/14 10:30 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
trans-1,3-Dichloropropene	ND	ug/kg	180	50		10/07/14 12:39	10061-02-6	
Ethylbenzene	ND	ug/kg	180	50		10/07/14 12:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	180	50		10/07/14 12:39	87-68-3	
2-Hexanone	ND	ug/kg	721	50		10/07/14 12:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	180	50		10/07/14 12:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	180	50		10/07/14 12:39	99-87-6	
Methylene chloride	ND	ug/kg	180	50		10/07/14 12:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	360	50		10/07/14 12:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	180	50		10/07/14 12:39	1634-04-4	
Naphthalene	ND	ug/kg	360	50		10/07/14 12:39	91-20-3	
n-Propylbenzene	ND	ug/kg	180	50		10/07/14 12:39	103-65-1	
Styrene	ND	ug/kg	180	50		10/07/14 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	180	50		10/07/14 12:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	180	50		10/07/14 12:39	79-34-5	
Tetrachloroethene	**3640**	ug/kg	180	50		10/07/14 12:39	127-18-4	
Toluene	**576**	ug/kg	180	50		10/07/14 12:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	180	50		10/07/14 12:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	180	50		10/07/14 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	180	50		10/07/14 12:39	79-00-5	
Trichloroethene	**223**	ug/kg	180	50		10/07/14 12:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	180	50		10/07/14 12:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	180	50		10/07/14 12:39	96-18-4	
1,2,4-Trimethylbenzene	**1340**	ug/kg	180	50		10/07/14 12:39	95-63-6	
1,3,5-Trimethylbenzene	**1050**	ug/kg	180	50		10/07/14 12:39	108-67-8	
Vinyl acetate	ND	ug/kg	3600	50		10/07/14 12:39	108-05-4	
Vinyl chloride	ND	ug/kg	180	50		10/07/14 12:39	75-01-4	
Xylene (Total)	**5120**	ug/kg	180	50		10/07/14 12:39	1330-20-7	
m&p-Xylene	**3760**	ug/kg	180	50		10/07/14 12:39	179601-23-1	
o-Xylene	**1360**	ug/kg	180	50		10/07/14 12:39	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	80-120	50		10/07/14 12:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123	50		10/07/14 12:39	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-129	50		10/07/14 12:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974							
Percent Moisture	**14.9**	%	0.50	1		10/06/14 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: TRIP BLANK **Lab ID: 60179521006** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	20.0	1		10/06/14 14:30	67-64-1	
Acrolein	ND	ug/kg	100	1		10/06/14 14:30	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		10/06/14 14:30	107-13-1	
Benzene	ND	ug/kg	5.0	1		10/06/14 14:30	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/06/14 14:30	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	1		10/06/14 14:30	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	98-06-6	
Carbon disulfide	ND	ug/kg	5.0	1		10/06/14 14:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/06/14 14:30	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-00-3	
2-Chloroethylvinyl ether	ND	ug/kg	5.0	1		10/06/14 14:30	110-75-8	
Chloroform	ND	ug/kg	5.0	1		10/06/14 14:30	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/06/14 14:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/06/14 14:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.0	1		10/06/14 14:30	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/06/14 14:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/06/14 14:30	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/06/14 14:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	5.0	1		10/06/14 14:30	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/06/14 14:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/06/14 14:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/06/14 14:30	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/06/14 14:30	87-68-3	
2-Hexanone	ND	ug/kg	20.0	1		10/06/14 14:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/06/14 14:30	98-82-8	

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ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Sample: TRIP BLANK **Lab ID: 60179521006** Collected: 10/03/14 09:40 Received: 10/03/14 22:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/06/14 14:30	99-87-6	
Methylene chloride	ND	ug/kg	5.0	1		10/06/14 14:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	1		10/06/14 14:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/06/14 14:30	1634-04-4	
Naphthalene	ND	ug/kg	10.0	1		10/06/14 14:30	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/06/14 14:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/06/14 14:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/06/14 14:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/06/14 14:30	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/06/14 14:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/06/14 14:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/06/14 14:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/06/14 14:30	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		10/06/14 14:30	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		10/06/14 14:30	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	1		10/06/14 14:30	1330-20-7	
m&p-Xylene	ND	ug/kg	5.0	1		10/06/14 14:30	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/06/14 14:30	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1		10/06/14 14:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123	1		10/06/14 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	75-129	1		10/06/14 14:30	17060-07-0	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

QC Batch: MSV/64856
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60179521004, 60179521006

METHOD BLANK: 1454911
Matrix: Solid
Associated Lab Samples: 60179521004, 60179521006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1-Dichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,1-Dichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
1,1-Dichloropropene	ug/kg	ND	5.0	10/06/14 12:22	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	10/06/14 12:22	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloroethane	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
1,3-Dichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
2,2-Dichloropropane	ug/kg	ND	5.0	10/06/14 12:22	
2-Butanone (MEK)	ug/kg	ND	10.0	10/06/14 12:22	
2-Chloroethylvinyl ether	ug/kg	ND	5.0	10/06/14 12:22	
2-Chlorotoluene	ug/kg	ND	5.0	10/06/14 12:22	
2-Hexanone	ug/kg	ND	20.0	10/06/14 12:22	
4-Chlorotoluene	ug/kg	ND	5.0	10/06/14 12:22	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/06/14 12:22	
Acetone	ug/kg	ND	20.0	10/06/14 12:22	
Acrolein	ug/kg	ND	100	10/06/14 12:22	
Acrylonitrile	ug/kg	ND	100	10/06/14 12:22	
Benzene	ug/kg	ND	5.0	10/06/14 12:22	
Bromobenzene	ug/kg	ND	5.0	10/06/14 12:22	
Bromochloromethane	ug/kg	ND	5.0	10/06/14 12:22	
Bromodichloromethane	ug/kg	ND	5.0	10/06/14 12:22	
Bromoform	ug/kg	ND	5.0	10/06/14 12:22	
Bromomethane	ug/kg	ND	5.0	10/06/14 12:22	
Carbon disulfide	ug/kg	ND	5.0	10/06/14 12:22	
Carbon tetrachloride	ug/kg	ND	5.0	10/06/14 12:22	
Chlorobenzene	ug/kg	ND	5.0	10/06/14 12:22	
Chloroethane	ug/kg	ND	5.0	10/06/14 12:22	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

METHOD BLANK: 1454911 Matrix: Solid
Associated Lab Samples: 60179521004, 60179521006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/kg	ND	5.0	10/06/14 12:22	
Chloromethane	ug/kg	ND	5.0	10/06/14 12:22	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/14 12:22	
Dibromochloromethane	ug/kg	ND	5.0	10/06/14 12:22	
Dibromomethane	ug/kg	ND	5.0	10/06/14 12:22	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/06/14 12:22	
Ethylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/06/14 12:22	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/06/14 12:22	
m&p-Xylene	ug/kg	ND	5.0	10/06/14 12:22	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/06/14 12:22	
Methylene chloride	ug/kg	ND	5.0	10/06/14 12:22	
n-Butylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
n-Propylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Naphthalene	ug/kg	ND	10.0	10/06/14 12:22	
o-Xylene	ug/kg	ND	5.0	10/06/14 12:22	
p-Isopropyltoluene	ug/kg	ND	5.0	10/06/14 12:22	
sec-Butylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Styrene	ug/kg	ND	5.0	10/06/14 12:22	
tert-Butylbenzene	ug/kg	ND	5.0	10/06/14 12:22	
Tetrachloroethene	ug/kg	ND	5.0	10/06/14 12:22	
Toluene	ug/kg	ND	5.0	10/06/14 12:22	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/06/14 12:22	
Trichloroethene	ug/kg	ND	5.0	10/06/14 12:22	
Trichlorofluoromethane	ug/kg	ND	5.0	10/06/14 12:22	
Vinyl acetate	ug/kg	ND	100	10/06/14 12:22	
Vinyl chloride	ug/kg	ND	5.0	10/06/14 12:22	
Xylene (Total)	ug/kg	ND	5.0	10/06/14 12:22	
1,2-Dichloroethane-d4 (S)	%	92	75-129	10/06/14 12:22	
4-Bromofluorobenzene (S)	%	98	76-123	10/06/14 12:22	
Toluene-d8 (S)	%	100	80-120	10/06/14 12:22	

LABORATORY CONTROL SAMPLE: 1454912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	105	105	80-122	
1,1,1-Trichloroethane	ug/kg	100	107	107	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	99.0	99	73-120	
1,1,2-Trichloroethane	ug/kg	100	103	103	76-120	
1,1-Dichloroethane	ug/kg	100	96.7	97	71-120	
1,1-Dichloroethene	ug/kg	100	103	103	76-130	
1,1-Dichloropropene	ug/kg	100	106	106	77-130	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1454912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	100	107	107	80-123	
1,2,3-Trichloropropane	ug/kg	100	102	102	75-120	
1,2,4-Trichlorobenzene	ug/kg	100	105	105	80-126	
1,2,4-Trimethylbenzene	ug/kg	100	98.0	98	78-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	95.1	95	71-125	
1,2-Dibromoethane (EDB)	ug/kg	100	104	104	80-121	
1,2-Dichlorobenzene	ug/kg	100	103	103	80-120	
1,2-Dichloroethane	ug/kg	100	101	101	78-120	
1,2-Dichloroethene (Total)	ug/kg	200	208	104	79-121	
1,2-Dichloropropane	ug/kg	100	103	103	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	100	100	78-120	
1,3-Dichlorobenzene	ug/kg	100	102	102	80-120	
1,3-Dichloropropane	ug/kg	100	102	102	75-120	
1,4-Dichlorobenzene	ug/kg	100	101	101	80-120	
2,2-Dichloropropane	ug/kg	100	99.4	99	65-129	
2-Butanone (MEK)	ug/kg	500	460	92	55-135	
2-Chloroethylvinyl ether	ug/kg	100	97.6	98	47-143	
2-Chlorotoluene	ug/kg	100	102	102	80-120	
2-Hexanone	ug/kg	500	485	97	57-136	
4-Chlorotoluene	ug/kg	100	100	100	77-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	506	101	71-128	
Acetone	ug/kg	500	506	101	43-144	
Acrolein	ug/kg	1000	833	83	60-140	
Acrylonitrile	ug/kg	1000	994	99	71-120	
Benzene	ug/kg	100	98.3	98	80-120	
Bromobenzene	ug/kg	100	103	103	80-122	
Bromochloromethane	ug/kg	100	96.3	96	76-122	
Bromodichloromethane	ug/kg	100	104	104	80-120	
Bromoform	ug/kg	100	112	112	75-124	
Bromomethane	ug/kg	100	121	121	38-150	
Carbon disulfide	ug/kg	100	99.9	100	58-137	
Carbon tetrachloride	ug/kg	100	124	124	75-140	
Chlorobenzene	ug/kg	100	104	104	80-120	
Chloroethane	ug/kg	100	92.0	92	65-127	
Chloroform	ug/kg	100	100	100	74-120	
Chloromethane	ug/kg	100	119	119	39-138	
cis-1,2-Dichloroethene	ug/kg	100	103	103	76-124	
cis-1,3-Dichloropropene	ug/kg	100	103	103	82-120	
Dibromochloromethane	ug/kg	100	103	103	80-124	
Dibromomethane	ug/kg	100	104	104	80-120	
Dichlorodifluoromethane	ug/kg	100	101	101	16-135	
Ethylbenzene	ug/kg	100	105	105	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	103	103	73-138	
Isopropylbenzene (Cumene)	ug/kg	100	112	112	80-136	
m&p-Xylene	ug/kg	200	206	103	77-120	
Methyl-tert-butyl ether	ug/kg	100	100	100	78-121	
Methylene chloride	ug/kg	100	100	100	70-123	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1454912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/kg	100	101	101	72-132	
n-Propylbenzene	ug/kg	100	98.9	99	72-127	
Naphthalene	ug/kg	100	108	108	77-126	
o-Xylene	ug/kg	100	105	105	80-120	
p-Isopropyltoluene	ug/kg	100	99.9	100	78-128	
sec-Butylbenzene	ug/kg	100	98.2	98	73-134	
Styrene	ug/kg	100	105	105	79-120	
tert-Butylbenzene	ug/kg	100	102	102	77-130	
Tetrachloroethene	ug/kg	100	101	101	78-128	
Toluene	ug/kg	100	104	104	79-120	
trans-1,2-Dichloroethene	ug/kg	100	105	105	76-124	
trans-1,3-Dichloropropene	ug/kg	100	108	108	80-124	
Trichloroethene	ug/kg	100	98.8	99	80-120	
Trichlorofluoromethane	ug/kg	100	99.4	99	64-126	
Vinyl acetate	ug/kg	100	91.4J	91	70-130	
Vinyl chloride	ug/kg	100	105	105	57-132	
Xylene (Total)	ug/kg	300	311	104	79-120	
1,2-Dichloroethane-d4 (S)	%			94	75-129	
4-Bromofluorobenzene (S)	%			100	76-123	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454913 1454914

Parameter	Units	60179286002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	124	122	93.7	97.2	75	80	10-151	4	44	
1,1,1-Trichloroethane	ug/kg	ND	124	122	109	106	88	87	21-144	2	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	124	122	84.3	82.6	68	68	10-151	2	46	
1,1,2-Trichloroethane	ug/kg	ND	124	122	94.4	95.6	76	78	10-140	1	46	
1,1-Dichloroethane	ug/kg	ND	124	122	94.3	92.4	76	76	19-137	2	43	
1,1-Dichloroethene	ug/kg	ND	124	122	104	102	84	84	27-143	2	41	
1,1-Dichloropropene	ug/kg	ND	124	122	106	104	86	85	19-144	2	43	
1,2,3-Trichlorobenzene	ug/kg	ND	124	122	95.1	92.6	77	76	10-147	3	50	
1,2,3-Trichloropropane	ug/kg	ND	124	122	89.5	90.7	72	74	10-151	1	46	
1,2,4-Trichlorobenzene	ug/kg	ND	124	122	96.2	90.9	77	75	10-146	6	50	
1,2,4-Trimethylbenzene	ug/kg	ND	124	122	89.6	89.8	72	74	10-145	0	49	
1,2-Dibromo-3-chloropropane	ug/kg	ND	124	122	93.7	84.8	75	70	10-152	10	48	
1,2-Dibromoethane (EDB)	ug/kg	ND	124	122	97.1	101	78	82	13-153	3	40	
1,2-Dichlorobenzene	ug/kg	ND	124	122	92.9	91.7	75	75	10-147	1	48	
1,2-Dichloroethane	ug/kg	ND	124	122	95.9	109	77	89	21-147	13	38	
1,2-Dichloroethene (Total)	ug/kg	ND	249	244	202	194	81	79	21-139	4	44	
1,2-Dichloropropane	ug/kg	ND	124	122	99.3	95.9	80	79	15-145	3	43	
1,3,5-Trimethylbenzene	ug/kg	ND	124	122	92.8	91.6	75	75	10-144	1	48	
1,3-Dichlorobenzene	ug/kg	ND	124	122	91.0	91.8	73	75	10-143	1	49	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454913 1454914

Parameter	Units	60179286002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichloropropane	ug/kg	ND	124	122	91.9	93.3	74	76	10-135	1	42	
1,4-Dichlorobenzene	ug/kg	ND	124	122	91.1	89.5	73	73	10-144	2	48	
2,2-Dichloropropane	ug/kg	ND	124	122	98.2	96.6	79	79	16-137	2	44	
2-Butanone (MEK)	ug/kg	ND	621	610	462	435	74	71	10-160	6	50	
2-Chloroethylvinyl ether	ug/kg	ND	124	122	92.0	90.6	74	74	10-139	2	49	
2-Chlorotoluene	ug/kg	ND	124	122	90.9	86.9	73	71	10-143	5	48	
2-Hexanone	ug/kg	ND	621	610	466	468	75	77	10-160	1	50	
4-Chlorotoluene	ug/kg	ND	124	122	90.8	90.6	73	74	10-144	0	47	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	621	610	492	487	79	80	10-152	1	47	
Acetone	ug/kg	ND	621	610	518	488	83	80	10-160	6	49	
Acrolein	ug/kg	ND	1240	1220	1090	1090	88	89	10-160	1	43	
Acrylonitrile	ug/kg	ND	1240	1220	963	950	78	78	10-148	1	44	
Benzene	ug/kg	ND	124	122	93.9	108	76	88	22-144	14	38	
Bromobenzene	ug/kg	ND	124	122	96.0	97.8	77	80	10-150	2	46	
Bromochloromethane	ug/kg	ND	124	122	95.1	93.5	77	77	17-142	2	45	
Bromodichloromethane	ug/kg	ND	124	122	96.5	95.8	78	79	10-143	1	42	
Bromoform	ug/kg	ND	124	122	105	106	85	87	10-145	1	44	
Bromomethane	ug/kg	ND	124	122	108	111	87	91	10-137	3	47	
Carbon disulfide	ug/kg	ND	124	122	100	98.4	81	81	10-142	2	44	
Carbon tetrachloride	ug/kg	ND	124	122	127	126	102	103	15-153	0	45	
Chlorobenzene	ug/kg	ND	124	122	94.3	98.7	76	81	10-145	4	46	
Chloroethane	ug/kg	ND	124	122	88.3	89.0	71	73	17-134	1	42	
Chloroform	ug/kg	ND	124	122	95.8	95.1	77	78	17-138	1	44	
Chloromethane	ug/kg	ND	124	122	113	114	91	94	10-128	1	39	
cis-1,2-Dichloroethene	ug/kg	ND	124	122	98.8	95.0	80	78	17-140	4	46	
cis-1,3-Dichloropropene	ug/kg	ND	124	122	97.8	94.5	79	77	10-142	3	43	
Dibromochloromethane	ug/kg	ND	124	122	97.7	96.5	79	79	10-149	1	42	
Dibromomethane	ug/kg	ND	124	122	95.8	92.2	77	76	14-144	4	46	
Dichlorodifluoromethane	ug/kg	ND	124	122	104	106	84	87	10-130	2	31	
Ethylbenzene	ug/kg	ND	124	122	100	101	81	83	10-154	1	42	
Hexachloro-1,3-butadiene	ug/kg	ND	124	122	96.6	96.3	78	79	10-151	0	50	
Isopropylbenzene (Cumene)	ug/kg	ND	124	122	108	110	87	90	10-159	2	49	
m&p-Xylene	ug/kg	ND	249	244	197	198	79	81	10-155	1	41	
Methyl-tert-butyl ether	ug/kg	ND	124	122	94.8	92.7	76	76	20-148	2	38	
Methylene chloride	ug/kg	ND	124	122	97.7	95.2	76	75	15-140	3	46	
n-Butylbenzene	ug/kg	ND	124	122	96.0	96.1	77	79	10-148	0	50	
n-Propylbenzene	ug/kg	ND	124	122	91.8	92.5	74	76	10-146	1	50	
Naphthalene	ug/kg	ND	124	122	99.3	97.4	80	80	10-160	2	45	
o-Xylene	ug/kg	ND	124	122	98.6	98.8	79	81	10-154	0	40	
p-Isopropyltoluene	ug/kg	ND	124	122	94.6	92.6	76	76	10-149	2	49	
sec-Butylbenzene	ug/kg	ND	124	122	92.8	92.3	75	76	10-150	1	50	
Styrene	ug/kg	ND	124	122	98.2	100	79	82	10-142	2	44	
tert-Butylbenzene	ug/kg	ND	124	122	94.6	92.7	76	76	10-151	2	48	
Tetrachloroethene	ug/kg	ND	124	122	101	104	81	85	10-150	3	48	
Toluene	ug/kg	ND	124	122	95.7	96.8	77	79	11-150	1	40	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1454913 1454914

Parameter	Units	60179286002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/kg	ND	124	122	103	99.0	83	81	20-140	4	42	
trans-1,3-Dichloropropene	ug/kg	ND	124	122	102	103	82	84	10-149	1	41	
Trichloroethene	ug/kg	ND	124	122	103	104	83	85	14-146	1	45	
Trichlorofluoromethane	ug/kg	ND	124	122	104	101	84	83	24-130	4	41	
Vinyl acetate	ug/kg	ND	124	122	85.2J	82.4J	69	68	70-130		30	M1
Vinyl chloride	ug/kg	ND	124	122	106	102	86	84	19-131	4	37	
Xylene (Total)	ug/kg	ND	372	366	295	296	79	81	10-154	0	41	
1,2-Dichloroethane-d4 (S)	%						97	120	75-129			
4-Bromofluorobenzene (S)	%						99	101	76-123			
Toluene-d8 (S)	%						102	103	80-120			

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

QC Batch: MSV/64866 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60179521001, 60179521003, 60179521005

METHOD BLANK: 1455166 Matrix: Solid
Associated Lab Samples: 60179521001, 60179521003, 60179521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1,1-Trichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1,2-Trichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1-Dichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,1-Dichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
1,1-Dichloropropene	ug/kg	ND	5.0	10/07/14 09:48	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2,3-Trichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	10/07/14 09:48	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloroethane	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloroethene (Total)	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,3-Dichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
1,3-Dichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
1,4-Dichlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
2,2-Dichloropropane	ug/kg	ND	5.0	10/07/14 09:48	
2-Butanone (MEK)	ug/kg	ND	10.0	10/07/14 09:48	
2-Chloroethylvinyl ether	ug/kg	ND	5.0	10/07/14 09:48	
2-Chlorotoluene	ug/kg	ND	5.0	10/07/14 09:48	
2-Hexanone	ug/kg	ND	20.0	10/07/14 09:48	
4-Chlorotoluene	ug/kg	ND	5.0	10/07/14 09:48	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	10/07/14 09:48	
Acetone	ug/kg	ND	20.0	10/07/14 09:48	
Acrolein	ug/kg	ND	100	10/07/14 09:48	
Acrylonitrile	ug/kg	ND	100	10/07/14 09:48	
Benzene	ug/kg	ND	5.0	10/07/14 09:48	
Bromobenzene	ug/kg	ND	5.0	10/07/14 09:48	
Bromochloromethane	ug/kg	ND	5.0	10/07/14 09:48	
Bromodichloromethane	ug/kg	ND	5.0	10/07/14 09:48	
Bromoform	ug/kg	ND	5.0	10/07/14 09:48	
Bromomethane	ug/kg	ND	5.0	10/07/14 09:48	
Carbon disulfide	ug/kg	ND	5.0	10/07/14 09:48	
Carbon tetrachloride	ug/kg	ND	5.0	10/07/14 09:48	
Chlorobenzene	ug/kg	ND	5.0	10/07/14 09:48	
Chloroethane	ug/kg	ND	5.0	10/07/14 09:48	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

METHOD BLANK: 1455166 Matrix: Solid
Associated Lab Samples: 60179521001, 60179521003, 60179521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/kg	ND	5.0	10/07/14 09:48	
Chloromethane	ug/kg	ND	5.0	10/07/14 09:48	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	10/07/14 09:48	
Dibromochloromethane	ug/kg	ND	5.0	10/07/14 09:48	
Dibromomethane	ug/kg	ND	5.0	10/07/14 09:48	
Dichlorodifluoromethane	ug/kg	ND	5.0	10/07/14 09:48	
Ethylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	10/07/14 09:48	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	10/07/14 09:48	
m&p-Xylene	ug/kg	ND	5.0	10/07/14 09:48	
Methyl-tert-butyl ether	ug/kg	ND	5.0	10/07/14 09:48	
Methylene chloride	ug/kg	ND	5.0	10/07/14 09:48	
n-Butylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
n-Propylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Naphthalene	ug/kg	ND	10.0	10/07/14 09:48	
o-Xylene	ug/kg	ND	5.0	10/07/14 09:48	
p-Isopropyltoluene	ug/kg	ND	5.0	10/07/14 09:48	
sec-Butylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Styrene	ug/kg	ND	5.0	10/07/14 09:48	
tert-Butylbenzene	ug/kg	ND	5.0	10/07/14 09:48	
Tetrachloroethene	ug/kg	ND	5.0	10/07/14 09:48	
Toluene	ug/kg	ND	5.0	10/07/14 09:48	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	10/07/14 09:48	
Trichloroethene	ug/kg	ND	5.0	10/07/14 09:48	
Trichlorofluoromethane	ug/kg	ND	5.0	10/07/14 09:48	
Vinyl acetate	ug/kg	ND	100	10/07/14 09:48	
Vinyl chloride	ug/kg	ND	5.0	10/07/14 09:48	
Xylene (Total)	ug/kg	ND	5.0	10/07/14 09:48	
1,2-Dichloroethane-d4 (S)	%	103	75-129	10/07/14 09:48	
4-Bromofluorobenzene (S)	%	98	76-123	10/07/14 09:48	
Toluene-d8 (S)	%	101	80-120	10/07/14 09:48	

LABORATORY CONTROL SAMPLE: 1455167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	109	109	80-122	
1,1,1-Trichloroethane	ug/kg	100	108	108	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	106	106	73-120	
1,1,2-Trichloroethane	ug/kg	100	104	104	76-120	
1,1-Dichloroethane	ug/kg	100	103	103	71-120	
1,1-Dichloroethene	ug/kg	100	106	106	76-130	
1,1-Dichloropropene	ug/kg	100	108	108	77-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1455167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/kg	100	106	106	80-123	
1,2,3-Trichloropropane	ug/kg	100	103	103	75-120	
1,2,4-Trichlorobenzene	ug/kg	100	104	104	80-126	
1,2,4-Trimethylbenzene	ug/kg	100	104	104	78-120	
1,2-Dibromo-3-chloropropane	ug/kg	100	109	109	71-125	
1,2-Dibromoethane (EDB)	ug/kg	100	102	102	80-121	
1,2-Dichlorobenzene	ug/kg	100	105	105	80-120	
1,2-Dichloroethane	ug/kg	100	102	102	78-120	
1,2-Dichloroethene (Total)	ug/kg	200	208	104	79-121	
1,2-Dichloropropane	ug/kg	100	106	106	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	107	107	78-120	
1,3-Dichlorobenzene	ug/kg	100	107	107	80-120	
1,3-Dichloropropane	ug/kg	100	106	106	75-120	
1,4-Dichlorobenzene	ug/kg	100	101	101	80-120	
2,2-Dichloropropane	ug/kg	100	106	106	65-129	
2-Butanone (MEK)	ug/kg	500	477	95	55-135	
2-Chloroethylvinyl ether	ug/kg	100	70.0	70	47-143	
2-Chlorotoluene	ug/kg	100	106	106	80-120	
2-Hexanone	ug/kg	500	513	103	57-136	
4-Chlorotoluene	ug/kg	100	108	108	77-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	507	101	71-128	
Acetone	ug/kg	500	455	91	43-144	
Acrolein	ug/kg	1000	777	78	60-140	
Acrylonitrile	ug/kg	1000	1000	100	71-120	
Benzene	ug/kg	100	104	104	80-120	
Bromobenzene	ug/kg	100	108	108	80-122	
Bromochloromethane	ug/kg	100	106	106	76-122	
Bromodichloromethane	ug/kg	100	109	109	80-120	
Bromoform	ug/kg	100	98.3	98	75-124	
Bromomethane	ug/kg	100	102	102	38-150	
Carbon disulfide	ug/kg	100	115	115	58-137	
Carbon tetrachloride	ug/kg	100	116	116	75-140	
Chlorobenzene	ug/kg	100	103	103	80-120	
Chloroethane	ug/kg	100	102	102	65-127	
Chloroform	ug/kg	100	104	104	74-120	
Chloromethane	ug/kg	100	110	110	39-138	
cis-1,2-Dichloroethene	ug/kg	100	103	103	76-124	
cis-1,3-Dichloropropene	ug/kg	100	105	105	82-120	
Dibromochloromethane	ug/kg	100	111	111	80-124	
Dibromomethane	ug/kg	100	106	106	80-120	
Dichlorodifluoromethane	ug/kg	100	117	117	16-135	
Ethylbenzene	ug/kg	100	109	109	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	112	112	73-138	
Isopropylbenzene (Cumene)	ug/kg	100	119	119	80-136	
m&p-Xylene	ug/kg	200	212	106	77-120	
Methyl-tert-butyl ether	ug/kg	100	95.5	95	78-121	
Methylene chloride	ug/kg	100	99.3	99	70-123	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

LABORATORY CONTROL SAMPLE: 1455167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/kg	100	112	112	72-132	
n-Propylbenzene	ug/kg	100	106	106	72-127	
Naphthalene	ug/kg	100	104	104	77-126	
o-Xylene	ug/kg	100	107	107	80-120	
p-Isopropyltoluene	ug/kg	100	107	107	78-128	
sec-Butylbenzene	ug/kg	100	109	109	73-134	
Styrene	ug/kg	100	108	108	79-120	
tert-Butylbenzene	ug/kg	100	108	108	77-130	
Tetrachloroethene	ug/kg	100	112	112	78-128	
Toluene	ug/kg	100	101	101	79-120	
trans-1,2-Dichloroethene	ug/kg	100	105	105	76-124	
trans-1,3-Dichloropropene	ug/kg	100	118	118	80-124	
Trichloroethene	ug/kg	100	107	107	80-120	
Trichlorofluoromethane	ug/kg	100	110	110	64-126	
Vinyl acetate	ug/kg	100	91.2J	91	70-130	
Vinyl chloride	ug/kg	100	112	112	57-132	
Xylene (Total)	ug/kg	300	319	106	79-120	
1,2-Dichloroethane-d4 (S)	%			97	75-129	
4-Bromofluorobenzene (S)	%			100	76-123	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

QC Batch: OEXT/4757 — Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 — Analysis Description: 8270 Soil 1,4 Dioxane
Associated Lab Samples: 60179521001, 60179521003, 60179521004, 60179521005

METHOD BLANK: 99681 — Matrix: Solid
Associated Lab Samples: 60179521001, 60179521003, 60179521004, 60179521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/kg	ND	6.7	10/06/14 13:36	
1,4-Dioxane-d8(S)	%.	36	10-140	10/06/14 13:36	

LABORATORY CONTROL SAMPLE: 99682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/kg	333	118	35	10-140	
1,4-Dioxane-d8(S)	%.			35	10-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 99683 99684

Parameter	Units	60179419002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/kg	31.3	402	402	149	130	29	25	10-140	14	40	
1,4-Dioxane-d8(S)	%.						29	25	10-140			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

QC Batch: PMST/10081 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60179521001, 60179521003, 60179521004, 60179521005

METHOD BLANK: 1454725 Matrix: Solid
Associated Lab Samples: 60179521001, 60179521003, 60179521004, 60179521005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	10/06/14 00:00	

SAMPLE DUPLICATE: 1454726

Parameter	Units	60179521001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.5	14.5	0	20	

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QUALIFIERS

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

IS	The internal standard response is below criteria. Results may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLEAN HARBORS-WICHITA KS
Pace Project No.: 60179521

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60179521001	BLD B-UFS 9	EPA 3546	OEXT/4757	EPA 8270 by SIM	MSSV/1734
60179521003	BLD B-UFS 11	EPA 3546	OEXT/4757	EPA 8270 by SIM	MSSV/1734
60179521004	BLD B-UFS 12	EPA 3546	OEXT/4757	EPA 8270 by SIM	MSSV/1734
60179521005	BLD B-UFS 13	EPA 3546	OEXT/4757	EPA 8270 by SIM	MSSV/1734
60179521001	BLD B-UFS 9	EPA 8260	MSV/64866		
60179521003	BLD B-UFS 11	EPA 8260	MSV/64866		
60179521004	BLD B-UFS 12	EPA 8260	MSV/64856		
60179521005	BLD B-UFS 13	EPA 8260	MSV/64866		
60179521006	TRIP BLANK	EPA 8260	MSV/64856		
60179521001	BLD B-UFS 9	ASTM D2974	PMST/10081		
60179521003	BLD B-UFS 11	ASTM D2974	PMST/10081		
60179521004	BLD B-UFS 12	ASTM D2974	PMST/10081		
60179521005	BLD B-UFS 13	ASTM D2974	PMST/10081		

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Sample Condition Upon Receipt

WO#: 60179521

60179521

Client Name: ESI

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ EXP

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☒ ZPLC

Thermometer Used: ~~T-239~~ / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun
(circle one)

Cooler Temperature: 4.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 10/4

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes	☐No	☐N/A	6. Kits
Rush Turn Around Time requested:	☒Yes	☐No	☐N/A	7. 24 hr
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☒Yes	☐No	☐N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC:	☒Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: SL				13.
All containers needing preservation have been checked	☐Yes	☐No	☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation	☐Yes	☐No	☒N/A	14.
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water) Phenolics	☒Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): Cooled				15.
Headspace in VOA vials (>6mm):	☐Yes	☐No	☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☒No	☐N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? (Y) N Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [illegible] for (SAP) Date: 10/4/14

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	iSi Environmental
Address:	215 S. Lawa
	Wichita KS 67211
Email To:	bgerber@isienvironmental.com
Phone:	316-264-7050
Fax:	
Requested Due Date/TAT:	24hr

Section B Required Project Information:

Report To:	iSi
Copy To:	
Purchase Order No.:	
Project Name:	Clean Harbors-Wichita KS
Project Number:	

Section C Invoice Information:

Attention:	
Company Name:	Clean Harbors
Address:	
Pace Quote Reference:	
Pace Project Manager:	Sherri Rosenstangle
Pace Profile #:	7745.1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260 VOC	8270 SVOC SIM - 1,4 Dioxane							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60179521
1	Bld B-UFS 9	SL	G			10-3-14	0940		6	X					X	X			X	X		DG9M	DG9D	(2) VG9U	B9SU		N	01
2	Bld B-UFS 10	SL	G			10-3-14	0955		6	X					X	X			X	X								02
3	Bld B-UFS 11	SL	G			10-3-14	1000		6	X					X	X			X	X								03
4	Bld B-UFS 12	SL	G			10-3-14	1015		6	X					X	X			X	X								04
5	Bld B-UFS 13	SL	G			10-3-14	1030		6	X					X	X			X	X								05
6	Trip Blank								2										X			(2) VG9U						06
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Hold soil sample Bld B-UFS 10 until further notice.	Brady Gerber / iSi	10-3-14	1400	[signature] Rau	10/3	2250	4.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brady Gerber / Stuart Klaus

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/03/14

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev.07, 15-Feb-2007