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ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

Landmark Center II, Suite 220 • 4601 Six Forks Road • Raleigh, NC 27609 • Phone 919-783-9214 • Fax 919-783-9266

RECEIVED NOV DEC 10 2009 SOLID WASTE SECTION

December 8, 2009

Mr. Ervin Lane
Compliance Hydrogeologist
NCDENR-Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: Soil Assessment Report
Town of Edenton, Waste Transfer Facility, 21-01T

Dear Mr. Lane:

KCI Associates of North Carolina (KCI) has prepared this Soil Assessment Report on behalf of the Town of Edenton in response the NCDENR Facility Compliance Audit Report and the NCDENR Compliance Order with Administrative Penalty (Compliance Order) for the Public Works Solid Waste Transfer Facility in Edenton, NC. The scope of work for the assessment was conducted in accordance with the NCDENR letter dated November 23, 2009. The site location is illustrated in Figure 1.

Background

During a site audit by Mr. Wes Hare, Environmental Senior Specialist, NCDENR Solid Waste Section, on August 11, 2009, leachate was observed outside the concrete containment area. Edenton Public Works staff immediately attended to the leachate and stopped its migration while Mr. Hare was on-site. Gravel and course sand (crush and run) material was placed in the low area where the leachate had migrated.

Ms. Anne-Marie Knighton, Edenton Town Manager, and Mr. James Joyner, KCI Project Manager, met with Mr. Hare and Mr. Dennis Shackelford, NCDENR Eastern Regional Supervisor, in an informal conference to discuss the Compliance Order. In the meeting, Mr. Shackelford requested data on soil quality in the area of the leachate release.

A Soil Assessment Plan was plan was submitted to you on November 20, 2009. The Plan was approved with the provision that soil samples be collected from 6-12 inches below land surface, rather than 0-6 inches below as proposed.

Soil Assessment

KCI collected three soil samples from beneath the backfill material in the approximate location of the eroded area where the leachate traversed. The sample locations are provided in Figure 2. Prior to collecting the samples, Town of Edenton Public Works staff removed the backfill cover with a front-end loader to reveal native soil material. The soil samples were collected using a hand auger from a depth range of 6 to 12 inches below ground surface (bgs). The hand auger was cleaned with soap and water between borings. Soil descriptions for the samples indicated gravel was present from 0-6 inches, with underlying soil characterized as brown sand with minor amounts of clay.

The samples were placed in containers provided by ESC Lab Sciences. The containers were placed in a cooler with ice and submitted to the analytical laboratory under chain of custody procedures. As approved by NCDENR, the soil samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260, and 8 RCRA metals (various methods). One additional background soil sample was collected from a separate area of the site and analyzed for the same constituents (see Figure 2).

Results

The analytical results for the soil samples are summarized in Table 1 and Figure 2. The laboratory data sheets are provided in Attachment A. The data are compared to NCDENR Soil Remediation Goals (SRGs). Soil cleanup levels are based on direct contact (human health-based) and the protection of groundwater. The NCDENR requires that soil contamination be cleaned up to the lower of the two criteria. The cleanup levels are included in Table 1.

The analytical results for the soil samples indicated two VOCs (acetone and 2-butanone) were detected in the soil samples. Both of these constituents are common laboratory contaminants and were detected at concentrations well below the NCDENR SRGs. Seven of the 8 RCRA metals were detected in soil sample SS-1, while 6 were detected in the remaining samples. Silver was not detected in any samples, and cadmium was detected only in sample SS-1. All of the detected concentrations were well below either of the NCDENR SRGs.

The soil assessment has revealed no constituents are present at concentrations exceeding NCDENR cleanup levels. As a result, no further investigation is warranted. KCI, on behalf of the Town of Edenton, requests that the assessment requirement in the NOV be documented as completed.

Please feel free to call us if you have any questions at 919-783-9214.

Sincerely yours,

KCI Associates of North Carolina

James Y. Joyner, II, RSM
Sr. Program Manager

David M. Koss, P.E.
Senior Engineer

NORTH CAROLINA PROFESSIONAL SEAL 7466 ENGINEER DAVID M. KOSS

Attachments:

Table 1	Soil Analytical Results
Figure 1.	Site Location
Figure 2.	Sample Locations and Results
A	Laboratory Data Sheets

Table 1. Soil Analytical Results, Town of Edenton Public Works Solid Waste Transfer Facilty.

Analyte	SS-1	SS-2	SS-3	Background	SRG	
					Health-Based	Protect Groundwater
VOCs (mg/kg)						
Acetone	0.085	0.3	BRL	0.074	12,000	3
2-Butanone	0.015	0.022	BRL	BRL	5,600	17
Metals (mg/kg)						
Arsenic	2.6	2.4	2.2	2.2	4.4	5.4
Barium	32	21	44	21	3,000	1,600
Cadmium	0.46	BRL	BRL	BRL	14	2.6
Chromium	11	11	14	11	280	NAV
Lead	48	33	23	18	400	270
Mercury	0.11	0.050	0.023	0.20	0.86	NAV
Selenium	2.7	1.6	2.7	2.2	78	5.2
Silver	BRL	BRL	BRL	BRL	78	3.0

BRL Below reporting limit.
mg/kg Milligrams per kilogram.
NAV Not available.
SRG Soil remediation goal.
VOCs Volatile Organic Compounds.

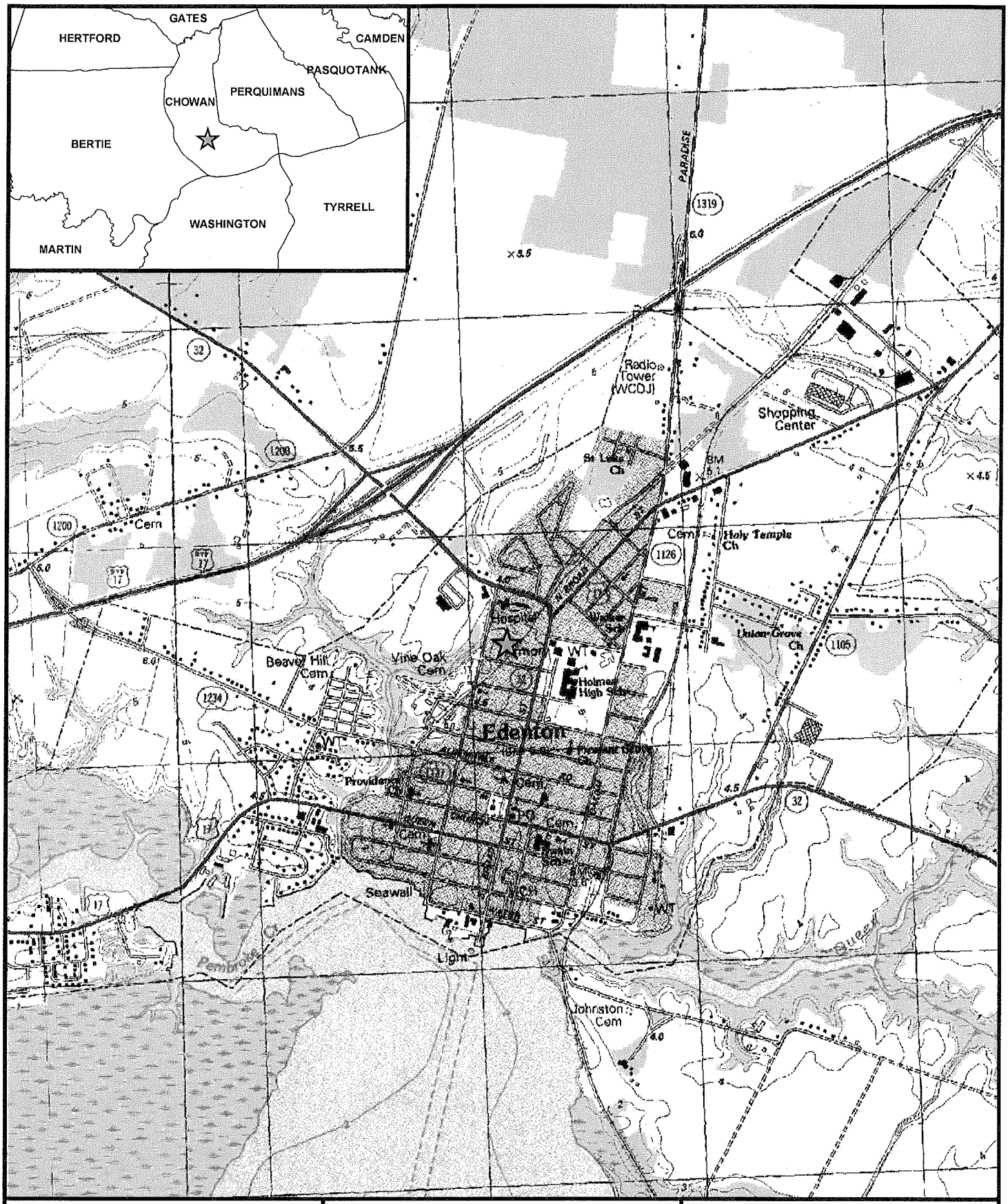

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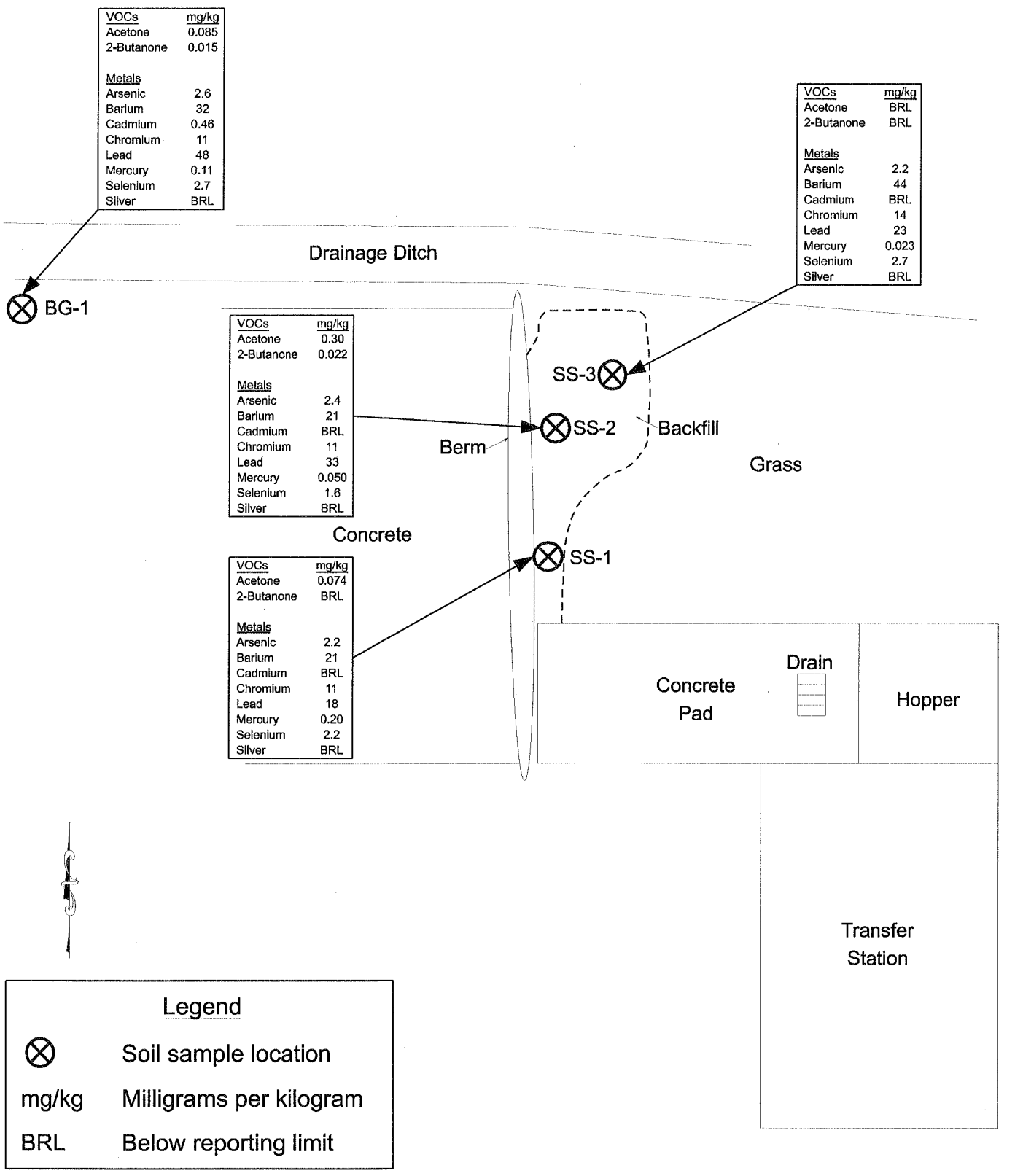
FIGURE 1 - SITE LOCATION
TOWN OF EDENTON
PUBLIC WORKS

☆ Approximate Subject Area

N

0 2,000 4,000 Feet

Source: USGS DRGs, Edenhouse Quad (1982) and Edenton Quad (1981).



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4601 SIX FORKS ROAD
RALEIGH, NORTH CAROLINA 27609

Soil Sample Location and Results
Town of Edenton Public Works

DATE: 10 DECEMBER 2009
KCI PROJ. # 12091396A
FILE: Figure_2_results.dgn

SCALE
HORIZONTAL: NTS
VERTICAL: N/A

FIGURE: 2

ATTACHMENT A

12065 Lebanon Rd.
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220

Raleigh, NC 27609

Report Summary

Friday December 04, 2009

Report Number: L433946
Samples Received: 11/25/09
Client Project: 12091396B

Description: Town of Edenton

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-01

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : SS-1 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.0		%	2540G	12/02/09	1
Mercury	0.11	0.020	mg/kg	7471	11/29/09	1
Arsenic	2.6	1.1	mg/kg	6010B	12/01/09	1
Barium	32.	0.28	mg/kg	6010B	12/01/09	1
Cadmium	0.46	0.28	mg/kg	6010B	12/01/09	1
Chromium	11.	0.56	mg/kg	6010B	12/01/09	1
Lead	48.	0.28	mg/kg	6010B	12/01/09	1
Selenium	2.7	1.1	mg/kg	6010B	12/01/09	1
Silver	BDL	0.56	mg/kg	6010B	12/01/09	1
Volatile Organics						
Acetone	0.085	0.056	mg/kg	8260B	12/03/09	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	12/03/09	1
Benzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromoform	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromomethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chloroethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260B	12/03/09	1
Chloroform	BDL	0.0056	mg/kg	8260B	12/03/09	1
Chloromethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-01

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : SS-1 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	12/03/09	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
2-Butanone (MEK)	0.015	0.011	mg/kg	8260B	12/03/09	1
Methylene Chloride	BDL	0.0056	mg/kg	8260B	12/03/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	12/03/09	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	12/03/09	1
Naphthalene	BDL	0.0056	mg/kg	8260B	12/03/09	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Styrene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0011	mg/kg	8260B	12/03/09	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Toluene	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,2,3-Trichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	12/03/09	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	12/03/09	1
Surrogate Recovery						
Toluene-d8	88.2		% Rec.	8260B	12/03/09	1
Dibromofluoromethane	110.		% Rec.	8260B	12/03/09	1
4-Bromofluorobenzene	73.2		% Rec.	8260B	12/03/09	1

Results listed are dry weight basis.
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REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-02

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : SS-2 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.4		%	2540G	12/02/09	1
Mercury	0.050	0.020	mg/kg	7471	11/29/09	1
Arsenic	2.4	1.1	mg/kg	6010B	12/01/09	1
Barium	21.	0.29	mg/kg	6010B	12/01/09	1
Cadmium	BDL	0.29	mg/kg	6010B	12/01/09	1
Chromium	11.	0.57	mg/kg	6010B	12/01/09	1
Lead	33.	0.29	mg/kg	6010B	12/01/09	1
Selenium	1.6	1.1	mg/kg	6010B	12/01/09	1
Silver	BDL	0.57	mg/kg	6010B	12/01/09	1
Volatile Organics						
Acetone	0.30	0.057	mg/kg	8260B	12/03/09	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	12/03/09	1
Benzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromoform	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromomethane	BDL	0.0057	mg/kg	8260B	12/03/09	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chloroethane	BDL	0.0057	mg/kg	8260B	12/03/09	1
2-Chloroethyl vinyl ether	BDL	0.057	mg/kg	8260B	12/03/09	1
Chloroform	BDL	0.0057	mg/kg	8260B	12/03/09	1
Chloromethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0057	mg/kg	8260B	12/03/09	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Dichlorodifluoromethane	BDL	0.0057	mg/kg	8260B	12/03/09	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-02

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : SS-2 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	12/03/09	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
2-Butanone (MEK)	0.022	0.011	mg/kg	8260B	12/03/09	1
Methylene Chloride	BDL	0.0057	mg/kg	8260B	12/03/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	12/03/09	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	12/03/09	1
Naphthalene	BDL	0.0057	mg/kg	8260B	12/03/09	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Styrene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0011	mg/kg	8260B	12/03/09	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Toluene	BDL	0.0057	mg/kg	8260B	12/03/09	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Trichlorofluoromethane	BDL	0.0057	mg/kg	8260B	12/03/09	1
1,2,3-Trichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	12/03/09	1
Xylenes, Total	BDL	0.0034	mg/kg	8260B	12/03/09	1
Surrogate Recovery						
Toluene-d8	90.3		% Rec.	8260B	12/03/09	1
Dibromofluoromethane	105.		% Rec.	8260B	12/03/09	1
4-Bromofluorobenzene	84.3		% Rec.	8260B	12/03/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-03

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : SS-3 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.6		%	2540G	12/02/09	1
Mercury	0.023	0.020	mg/kg	7471	11/29/09	1
Arsenic	2.2	1.2	mg/kg	6010B	12/01/09	1
Barium	44.	0.29	mg/kg	6010B	12/01/09	1
Cadmium	BDL	0.29	mg/kg	6010B	12/01/09	1
Chromium	14.	0.58	mg/kg	6010B	12/01/09	1
Lead	23.	0.29	mg/kg	6010B	12/01/09	1
Selenium	2.7	1.2	mg/kg	6010B	12/01/09	1
Silver	BDL	0.58	mg/kg	6010B	12/01/09	1
Volatile Organics						
Acetone	BDL	0.058	mg/kg	8260B	12/03/09	1
Acrylonitrile	BDL	0.012	mg/kg	8260B	12/03/09	1
Benzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Bromobenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
Bromoform	BDL	0.0012	mg/kg	8260B	12/03/09	1
Bromomethane	BDL	0.0058	mg/kg	8260B	12/03/09	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	12/03/09	1
Chlorobenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
Chloroethane	BDL	0.0058	mg/kg	8260B	12/03/09	1
2-Chloroethyl vinyl ether	BDL	0.058	mg/kg	8260B	12/03/09	1
Chloroform	BDL	0.0058	mg/kg	8260B	12/03/09	1
Chloromethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	12/03/09	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0058	mg/kg	8260B	12/03/09	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
Dibromomethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Dichlorodifluoromethane	BDL	0.0058	mg/kg	8260B	12/03/09	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	12/03/09	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	12/03/09	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	12/03/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-03

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : SS-3 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	12/03/09	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	12/03/09	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	12/03/09	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	12/03/09	1
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	12/03/09	1
Ethylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Hexachloro-1,3-butadiene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	12/03/09	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	12/03/09	1
Methylene Chloride	BDL	0.0058	mg/kg	8260B	12/03/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	12/03/09	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	12/03/09	1
Naphthalene	BDL	0.0058	mg/kg	8260B	12/03/09	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Styrene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	12/03/09	1
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Toluene	BDL	0.0058	mg/kg	8260B	12/03/09	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	12/03/09	1
Trichloroethene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Trichlorofluoromethane	BDL	0.0058	mg/kg	8260B	12/03/09	1
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	12/03/09	1
Vinyl chloride	BDL	0.0012	mg/kg	8260B	12/03/09	1
Xylenes, Total	BDL	0.0035	mg/kg	8260B	12/03/09	1
Surrogate Recovery						
Toluene-d8	94.6		% Rec.	8260B	12/03/09	1
Dibromofluoromethane	105.		% Rec.	8260B	12/03/09	1
4-Bromofluorobenzene	95.4		% Rec.	8260B	12/03/09	1

Results listed are dry weight basis.
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REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-04

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : BG-1 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.8		%	2540G	12/02/09	1
Mercury	0.020	0.020	mg/kg	7471	11/29/09	1
Arsenic	2.2	1.1	mg/kg	6010B	12/01/09	1
Barium	21.	0.28	mg/kg	6010B	12/01/09	1
Cadmium	BDL	0.28	mg/kg	6010B	12/01/09	1
Chromium	11.	0.56	mg/kg	6010B	12/01/09	1
Lead	18.	0.28	mg/kg	6010B	12/01/09	1
Selenium	2.2	1.1	mg/kg	6010B	12/01/09	1
Silver	BDL	0.56	mg/kg	6010B	12/01/09	1
Volatile Organics						
Acetone	0.074	0.056	mg/kg	8260B	12/03/09	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	12/03/09	1
Benzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromoform	BDL	0.0011	mg/kg	8260B	12/03/09	1
Bromomethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Chloroethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260B	12/03/09	1
Chloroform	BDL	0.0056	mg/kg	8260B	12/03/09	1
Chloromethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Mr. James Joyner
KCI Technologies
4601 Six Forks Road, Ste 220
Raleigh, NC 27609

December 04,2009

ESC Sample # : L433946-04

Date Received : November 25, 2009
Description : Town of Edenton

Site ID : EDENTON, NC

Sample ID : BG-1 6-12IN

Project # : 12091396B

Collected By : Kevin O'Briant
Collection Date : 11/24/09 13:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	12/03/09	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	12/03/09	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	12/03/09	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	12/03/09	1
Methylene Chloride	BDL	0.0056	mg/kg	8260B	12/03/09	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	12/03/09	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	12/03/09	1
Naphthalene	BDL	0.0056	mg/kg	8260B	12/03/09	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Styrene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0011	mg/kg	8260B	12/03/09	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Toluene	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	12/03/09	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260B	12/03/09	1
1,2,3-Trichloropropane	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	12/03/09	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	12/03/09	1
Xylenes, Total	BDL	0.0034	mg/kg	8260B	12/03/09	1
Surrogate Recovery						
Toluene-d8	97.0		% Rec.	8260B	12/03/09	1
Dibromofluoromethane	106.		% Rec.	8260B	12/03/09	1
4-Bromofluorobenzene	87.1		% Rec.	8260B	12/03/09	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Summary of Remarks For Samples Printed
12/04/09 at 10:51:36

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R5 - Desired TAT

Paperless client - jeh 7/23/07 Pending credit app

Sample: L433946-01 Account: KCIRNC Received: 11/25/09 07:00 Due Date: 12/03/09 00:00 RPT Date: 12/04/09 10:51

Sample: L433946-02 Account: KCIRNC Received: 11/25/09 07:00 Due Date: 12/03/09 00:00 RPT Date: 12/04/09 10:51

Sample: L433946-03 Account: KCIRNC Received: 11/25/09 07:00 Due Date: 12/03/09 00:00 RPT Date: 12/04/09 10:51

Sample: L433946-04 Account: KCIRNC Received: 11/25/09 07:00 Due Date: 12/03/09 00:00 RPT Date: 12/04/09 10:51

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Tax I.D. 62-0814289

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KCI Technologies
Mr. James Joyner
4601 Six Forks Road, Ste 220

Raleigh, NC 27609

Quality Assurance Report
Level II

L433946

December 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Mercury	< .02	mg/kg			WG452568	11/29/09 11:38
Total Solids	< .1	%			WG453142	12/02/09 10:15
Arsenic	< 1	mg/kg			WG452859	12/02/09 05:06
Barium	< .25	mg/kg			WG452859	12/02/09 05:06
Cadmium	< .25	mg/kg			WG452859	12/02/09 05:06
Chromium	< .5	mg/kg			WG452859	12/02/09 05:06
Lead	< .25	mg/kg			WG452859	12/02/09 05:06
Selenium	< 1	mg/kg			WG452859	12/02/09 05:06
Silver	< .5	mg/kg			WG452859	12/02/09 05:06
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,1,1-Trichloroethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,1,2-Trichloroethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,1-Dichloroethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,1-Dichloroethene	< .001	mg/kg			WG453425	12/03/09 07:38
1,1-Dichloropropene	< .001	mg/kg			WG453425	12/03/09 07:38
1,2,3-Trichlorobenzene	< .001	mg/kg			WG453425	12/03/09 07:38
1,2,3-Trichloropropane	< .001	mg/kg			WG453425	12/03/09 07:38
1,2,3-Trimethylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
1,2,4-Trichlorobenzene	< .001	mg/kg			WG453425	12/03/09 07:38
1,2,4-Trimethylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG453425	12/03/09 07:38
1,2-Dibromoethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,2-Dichlorobenzene	< .001	mg/kg			WG453425	12/03/09 07:38
1,2-Dichloroethane	< .001	mg/kg			WG453425	12/03/09 07:38
1,2-Dichloropropane	< .001	mg/kg			WG453425	12/03/09 07:38
1,3,5-Trimethylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
1,3-Dichlorobenzene	< .001	mg/kg			WG453425	12/03/09 07:38
1,3-Dichloropropane	< .001	mg/kg			WG453425	12/03/09 07:38
1,4-Dichlorobenzene	< .001	mg/kg			WG453425	12/03/09 07:38
2,2-Dichloropropane	< .001	mg/kg			WG453425	12/03/09 07:38
2-Butanone (MEK)	< .01	mg/kg			WG453425	12/03/09 07:38
2-Chloroethyl vinyl ether	< .001	mg/kg			WG453425	12/03/09 07:38
2-Chlorotoluene	< .001	mg/kg			WG453425	12/03/09 07:38
4-Chlorotoluene	< .001	mg/kg			WG453425	12/03/09 07:38
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG453425	12/03/09 07:38
Acetone	< .05	mg/kg			WG453425	12/03/09 07:38
Acrylonitrile	< .01	mg/kg			WG453425	12/03/09 07:38
Benzene	< .001	mg/kg			WG453425	12/03/09 07:38
Bromobenzene	< .001	mg/kg			WG453425	12/03/09 07:38
Bromodichloromethane	< .001	mg/kg			WG453425	12/03/09 07:38
Bromoform	< .001	mg/kg			WG453425	12/03/09 07:38
Bromomethane	< .005	mg/kg			WG453425	12/03/09 07:38
Carbon tetrachloride	< .001	mg/kg			WG453425	12/03/09 07:38
Chlorobenzene	< .001	mg/kg			WG453425	12/03/09 07:38
Chlorodibromomethane	< .001	mg/kg			WG453425	12/03/09 07:38
Chloroethane	< .005	mg/kg			WG453425	12/03/09 07:38
Chloroform	< .005	mg/kg			WG453425	12/03/09 07:38
Chloromethane	< .001	mg/kg			WG453425	12/03/09 07:38
cis-1,2-Dichloroethene	< .001	mg/kg			WG453425	12/03/09 07:38
cis-1,3-Dichloropropene	< .001	mg/kg			WG453425	12/03/09 07:38
Di-isopropyl ether	< .001	mg/kg			WG453425	12/03/09 07:38

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KCI Technologies
Mr. James Joyner
4601 Six Forks Road, Ste 220

Raleigh, NC 27609

Quality Assurance Report
Level II

L433946

December 04, 2009

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Dibromomethane	< .001	mg/kg			WG453425	12/03/09 07:38
Dichlorodifluoromethane	< .005	mg/kg			WG453425	12/03/09 07:38
Ethylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
Hexachloro-1,3-butadiene	< .001	mg/kg			WG453425	12/03/09 07:38
Isopropylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
Methyl tert-butyl ether	< .001	mg/kg			WG453425	12/03/09 07:38
Methylene Chloride	< .005	mg/kg			WG453425	12/03/09 07:38
n-Butylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
n-Propylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
Naphthalene	< .005	mg/kg			WG453425	12/03/09 07:38
p-Isopropyltoluene	< .001	mg/kg			WG453425	12/03/09 07:38
sec-Butylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
Styrene	< .001	mg/kg			WG453425	12/03/09 07:38
tert-Butylbenzene	< .001	mg/kg			WG453425	12/03/09 07:38
Tetrachloroethene	< .001	mg/kg			WG453425	12/03/09 07:38
Toluene	< .005	mg/kg			WG453425	12/03/09 07:38
trans-1,2-Dichloroethene	< .001	mg/kg			WG453425	12/03/09 07:38
trans-1,3-Dichloropropene	< .001	mg/kg			WG453425	12/03/09 07:38
Trichloroethene	< .001	mg/kg			WG453425	12/03/09 07:38
Trichlorofluoromethane	< .005	mg/kg			WG453425	12/03/09 07:38
Vinyl chloride	< .001	mg/kg			WG453425	12/03/09 07:38
Xylenes, Total	< .003	mg/kg			WG453425	12/03/09 07:38
4-Bromofluorobenzene		% Rec.	108.1	59-140	WG453425	12/03/09 07:38
Dibromofluoromethane		% Rec.	92.02	63-139	WG453425	12/03/09 07:38
Toluene-d8		% Rec.	94.59	84-116	WG453425	12/03/09 07:38

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Mercury	mg/kg	0	0	0	20	L433987-20	WG452568
Total Solids	%	93.0	92.8	0.559	5	L433950-01	WG453142
Arsenic	mg/kg	0	0	0	20	L434013-02	WG452859
Barium	mg/kg	65.0	62.0	4.11	20	L434013-02	WG452859
Cadmium	mg/kg	0	0	0	20	L434013-02	WG452859
Chromium	mg/kg	19.0	19.0	1.06	20	L434013-02	WG452859
Lead	mg/kg	14.0	15.0	8.33	20	L434013-02	WG452859
Selenium	mg/kg	4.00	4.00	0	20	L434013-02	WG452859
Silver	mg/kg	0	0	0	20	L434013-02	WG452859

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Mercury	mg/kg	8.77	10.1	115.	71.6-127.7	WG452568
Total Solids	%	50	50.0	100.	85-115	WG453142
Arsenic	mg/kg	192	178.	92.7	78.6-120.8	WG452859
Barium	mg/kg	420	423.	101.	78.8-121.4	WG452859
Cadmium	mg/kg	70.1	67.0	95.6	78.5-121.5	WG452859
Chromium	mg/kg	168	177.	105.	80.4-120.2	WG452859
Lead	mg/kg	113	110.	97.3	77.3-122.1	WG452859
Selenium	mg/kg	176	179.	102.	75.6-125.0	WG452859
Silver	mg/kg	115	113.	98.3	66-133.9	WG452859

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Quality Assurance Report
Level II

L433946

December 04, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0269	107.	73-134	WG453425
1,1,1-Trichloroethane	mg/kg	.025	0.0235	93.9	62-135	WG453425
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0247	98.7	74-129	WG453425
1,1,2-Trichloroethane	mg/kg	.025	0.0254	102.	77-124	WG453425
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0221	88.3	49-155	WG453425
1,1-Dichloroethane	mg/kg	.025	0.0233	93.0	61-134	WG453425
1,1-Dichloroethene	mg/kg	.025	0.0191	76.4	53-136	WG453425
1,1-Dichloropropene	mg/kg	.025	0.0247	98.8	63-132	WG453425
1,2,3-Trichlorobenzene	mg/kg	.025	0.0250	99.9	62-146	WG453425
1,2,3-Trichloropropane	mg/kg	.025	0.0247	98.7	70-133	WG453425
1,2,3-Trimethylbenzene	mg/kg	.025	0.0239	95.7	73-126	WG453425
1,2,4-Trichlorobenzene	mg/kg	.025	0.0258	103.	61-148	WG453425
1,2,4-Trimethylbenzene	mg/kg	.025	0.0283	113.	68-135	WG453425
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0260	104.	61-134	WG453425
1,2-Dibromoethane	mg/kg	.025	0.0257	103.	76-127	WG453425
1,2-Dichlorobenzene	mg/kg	.025	0.0243	97.2	77-123	WG453425
1,2-Dichloroethane	mg/kg	.025	0.0224	89.6	58-141	WG453425
1,2-Dichloropropane	mg/kg	.025	0.0231	92.5	71-128	WG453425
1,3,5-Trimethylbenzene	mg/kg	.025	0.0277	111.	71-133	WG453425
1,3-Dichlorobenzene	mg/kg	.025	0.0261	104.	71-132	WG453425
1,3-Dichloropropane	mg/kg	.025	0.0239	95.5	76-120	WG453425
1,4-Dichlorobenzene	mg/kg	.025	0.0230	92.1	72-123	WG453425
2,2-Dichloropropane	mg/kg	.025	0.0246	98.2	50-147	WG453425
2-Butanone (MEK)	mg/kg	.125	0.114	90.8	51-131	WG453425
2-Chloroethyl vinyl ether	mg/kg	.125	0.114	91.1	0-188	WG453425
2-Chlorotoluene	mg/kg	.025	0.0253	101.	73-128	WG453425
4-Chlorotoluene	mg/kg	.025	0.0256	102.	72-129	WG453425
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.118	94.1	61-143	WG453425
Acetone	mg/kg	.125	0.109	86.8	44-140	WG453425
Acrylonitrile	mg/kg	.125	0.113	90.7	55-143	WG453425
Benzene	mg/kg	.025	0.0238	95.2	65-128	WG453425
Bromobenzene	mg/kg	.025	0.0239	95.8	75-123	WG453425
Bromodichloromethane	mg/kg	.025	0.0249	99.6	66-126	WG453425
Bromoform	mg/kg	.025	0.0242	96.8	64-139	WG453425
Bromomethane	mg/kg	.025	0.0303	121.	41-175	WG453425
Carbon tetrachloride	mg/kg	.025	0.0224	89.8	60-140	WG453425
Chlorobenzene	mg/kg	.025	0.0265	106.	75-125	WG453425
Chlorodibromomethane	mg/kg	.025	0.0262	105.	72-137	WG453425
Chloroethane	mg/kg	.025	0.0240	96.0	44-159	WG453425
Chloroform	mg/kg	.025	0.0234	93.6	63-123	WG453425
Chloromethane	mg/kg	.025	0.0203	81.0	42-149	WG453425
cis-1,2-Dichloroethene	mg/kg	.025	0.0247	98.9	71-129	WG453425
cis-1,3-Dichloropropene	mg/kg	.025	0.0249	99.5	73-132	WG453425
Di-isopropyl ether	mg/kg	.025	0.0240	95.9	59-143	WG453425
Dibromomethane	mg/kg	.025	0.0246	98.5	70-130	WG453425
Dichlorodifluoromethane	mg/kg	.025	0.0230	91.9	26-186	WG453425
Ethylbenzene	mg/kg	.025	0.0263	105.	74-128	WG453425
Hexachloro-1,3-butadiene	mg/kg	.025	0.0244	97.8	65-137	WG453425
Isopropylbenzene	mg/kg	.025	0.0269	107.	73-130	WG453425
Methyl tert-butyl ether	mg/kg	.025	0.0241	96.3	44-148	WG453425
Methylene Chloride	mg/kg	.025	0.0230	92.1	57-129	WG453425
n-Butylbenzene	mg/kg	.025	0.0249	99.7	60-145	WG453425
n-Propylbenzene	mg/kg	.025	0.0253	101.	71-132	WG453425
Naphthalene	mg/kg	.025	0.0255	102.	61-142	WG453425
p-Isopropyltoluene	mg/kg	.025	0.0254	102.	67-138	WG453425
sec-Butylbenzene	mg/kg	.025	0.0270	108.	71-134	WG453425
Styrene	mg/kg	.025	0.0249	99.6	76-133	WG453425
tert-Butylbenzene	mg/kg	.025	0.0279	112.	72-132	WG453425
Tetrachloroethene	mg/kg	.025	0.0266	106.	65-135	WG453425

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Quality Assurance Report
Level II

L433946

December 04, 2009

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Toluene	mg/kg	.025	0.0248	99.2	70-120	WG453425
trans-1,2-Dichloroethene	mg/kg	.025	0.0245	98.1	61-133	WG453425
trans-1,3-Dichloropropene	mg/kg	.025	0.0222	89.0	70-135	WG453425
Trichloroethene	mg/kg	.025	0.0248	99.2	71-126	WG453425
Trichlorofluoromethane	mg/kg	.025	0.0217	86.9	52-147	WG453425
Vinyl chloride	mg/kg	.025	0.0228	91.1	50-151	WG453425
Xylenes, Total	mg/kg	.075	0.0810	108.	74-127	WG453425
4-Bromofluorobenzene				103.2	59-140	WG453425
Dibromofluoromethane				94.88	63-139	WG453425
Toluene-d8				95.56	84-116	WG453425

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0284	0.0269	114.	73-134	5.53	20	WG453425
1,1,1-Trichloroethane	mg/kg	0.0242	0.0235	97.0	62-135	3.20	20	WG453425
1,1,2,2-Tetrachloroethane	mg/kg	0.0264	0.0247	106.	74-129	6.94	20	WG453425
1,1,2-Trichloroethane	mg/kg	0.0259	0.0254	104.	77-124	1.95	20	WG453425
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0223	0.0221	89.0	49-155	1.03	20	WG453425
1,1-Dichloroethane	mg/kg	0.0232	0.0233	93.0	61-134	0.363	20	WG453425
1,1-Dichloroethene	mg/kg	0.0201	0.0191	80.0	53-136	5.16	20	WG453425
1,1-Dichloropropene	mg/kg	0.0251	0.0247	100.	63-132	1.75	20	WG453425
1,2,3-Trichlorobenzene	mg/kg	0.0253	0.0250	101.	62-146	1.22	20	WG453425
1,2,3-Trichloropropane	mg/kg	0.0270	0.0247	108.	70-133	8.87	20	WG453425
1,2,3-Trimethylbenzene	mg/kg	0.0239	0.0239	96.0	73-126	0.164	20	WG453425
1,2,4-Trichlorobenzene	mg/kg	0.0254	0.0258	102.	61-148	1.80	20	WG453425
1,2,4-Trimethylbenzene	mg/kg	0.0292	0.0283	117.	68-135	2.87	20	WG453425
1,2-Dibromo-3-Chloropropane	mg/kg	0.0269	0.0260	108.	61-134	3.45	21	WG453425
1,2-Dibromoethane	mg/kg	0.0281	0.0257	112.	76-127	8.70	20	WG453425
1,2-Dichlorobenzene	mg/kg	0.0241	0.0243	96.0	77-123	0.962	20	WG453425
1,2-Dichloroethane	mg/kg	0.0223	0.0224	89.0	58-141	0.592	20	WG453425
1,2-Dichloropropane	mg/kg	0.0233	0.0231	93.0	71-128	0.628	20	WG453425
1,3,5-Trimethylbenzene	mg/kg	0.0289	0.0277	116.	71-133	4.46	20	WG453425
1,3-Dichlorobenzene	mg/kg	0.0276	0.0261	110.	71-132	5.65	20	WG453425
1,3-Dichloropropane	mg/kg	0.0248	0.0239	99.0	76-120	3.66	20	WG453425
1,4-Dichlorobenzene	mg/kg	0.0233	0.0230	93.0	72-123	1.40	20	WG453425
2,2-Dichloropropane	mg/kg	0.0254	0.0246	101.	50-147	3.20	20	WG453425
2-Butanone (MEK)	mg/kg	0.112	0.114	90.0	51-131	1.21	25	WG453425
2-Chloroethyl vinyl ether	mg/kg	0.125	0.114	100.	0-188	9.41	39	WG453425
2-Chlorotoluene	mg/kg	0.0271	0.0253	108.	73-128	6.83	20	WG453425
4-Chlorotoluene	mg/kg	0.0272	0.0256	109.	72-129	6.05	20	WG453425
4-Methyl-2-pentanone (MIBK)	mg/kg	0.124	0.118	99.0	61-143	5.06	23	WG453425
Acetone	mg/kg	0.106	0.109	85.0	44-140	2.21	25	WG453425
Acrylonitrile	mg/kg	0.114	0.113	91.0	55-143	0.715	20	WG453425
Benzene	mg/kg	0.0236	0.0238	94.0	65-128	0.969	20	WG453425
Bromobenzene	mg/kg	0.0256	0.0239	102.	75-123	6.56	20	WG453425
Bromodichloromethane	mg/kg	0.0253	0.0249	101.	66-126	1.64	20	WG453425
Bromoform	mg/kg	0.0251	0.0242	100.	64-139	3.46	20	WG453425
Bromomethane	mg/kg	0.0341	0.0303	136.	41-175	12.1	20	WG453425
Carbon tetrachloride	mg/kg	0.0230	0.0224	92.0	60-140	2.55	20	WG453425
Chlorobenzene	mg/kg	0.0278	0.0265	111.	75-125	4.72	20	WG453425
Chlorodibromomethane	mg/kg	0.0280	0.0262	112.	72-137	6.42	20	WG453425
Chloroethane	mg/kg	0.0253	0.0240	101.	44-159	5.32	20	WG453425
Chloroform	mg/kg	0.0237	0.0234	95.0	63-123	1.32	20	WG453425
Chloromethane	mg/kg	0.0209	0.0203	84.0	42-149	3.29	20	WG453425
cis-1,2-Dichloroethene	mg/kg	0.0247	0.0247	99.0	71-129	0.0629	20	WG453425
cis-1,3-Dichloropropene	mg/kg	0.0252	0.0249	101.	73-132	1.24	20	WG453425
Di-isopropyl ether	mg/kg	0.0241	0.0240	96.0	59-143	0.314	20	WG453425
Dibromomethane	mg/kg	0.0243	0.0246	97.0	70-130	1.22	20	WG453425

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Quality Assurance Report
Level II

L433946

December 04, 2009

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Dichlorodifluoromethane	mg/kg	0.0226	0.0230	90.0	26-186	1.59	22	WG453425
Ethylbenzene	mg/kg	0.0282	0.0263	113.	74-128	7.08	20	WG453425
Hexachloro-1,3-butadiene	mg/kg	0.0243	0.0244	97.0	65-137	0.528	20	WG453425
Isopropylbenzene	mg/kg	0.0283	0.0269	113.	73-130	5.07	20	WG453425
Methyl tert-butyl ether	mg/kg	0.0236	0.0241	94.0	44-148	2.10	20	WG453425
Methylene Chloride	mg/kg	0.0230	0.0230	92.0	57-129	0.174	20	WG453425
n-Butylbenzene	mg/kg	0.0254	0.0249	102.	60-145	1.86	20	WG453425
n-Propylbenzene	mg/kg	0.0274	0.0253	110.	71-132	8.05	20	WG453425
Naphthalene	mg/kg	0.0259	0.0255	104.	61-142	1.36	20	WG453425
p-Isopropyltoluene	mg/kg	0.0267	0.0254	107.	67-138	4.84	20	WG453425
sec-Butylbenzene	mg/kg	0.0285	0.0270	114.	71-134	5.12	20	WG453425
Styrene	mg/kg	0.0267	0.0249	107.	76-133	6.88	20	WG453425
tert-Butylbenzene	mg/kg	0.0289	0.0279	116.	72-132	3.52	20	WG453425
Tetrachloroethene	mg/kg	0.0270	0.0266	108.	65-135	1.47	20	WG453425
Toluene	mg/kg	0.0244	0.0248	98.0	70-120	1.54	20	WG453425
trans-1,2-Dichloroethene	mg/kg	0.0247	0.0245	99.0	61-133	0.822	20	WG453425
trans-1,3-Dichloropropene	mg/kg	0.0224	0.0222	90.0	70-135	0.910	20	WG453425
Trichloroethene	mg/kg	0.0249	0.0248	100.	71-126	0.363	20	WG453425
Trichlorofluoromethane	mg/kg	0.0234	0.0217	94.0	52-147	7.52	20	WG453425
Vinyl chloride	mg/kg	0.0232	0.0228	93.0	50-151	1.83	20	WG453425
Xylenes, Total	mg/kg	0.0854	0.0810	114.	74-127	5.25	20	WG453425
4-Bromofluorobenzene				108.4	59-140			WG453425
Dibromofluoromethane				94.71	63-139			WG453425
Toluene-d8				96.85	84-116			WG453425

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/kg	0.234	0	.25	93.6	70-130	L433987-20	WG452568
Arsenic	mg/kg	44.4	0	50	88.8	75-125	L434013-02	WG452859
Barium	mg/kg	112.	62.0	50	100.	75-125	L434013-02	WG452859
Cadmium	mg/kg	44.0	0	50	88.0	75-125	L434013-02	WG452859
Chromium	mg/kg	66.1	19.0	50	94.2	75-125	L434013-02	WG452859
Lead	mg/kg	59.9	15.0	50	89.8	75-125	L434013-02	WG452859
Selenium	mg/kg	47.2	4.00	50	86.4	75-125	L434013-02	WG452859
Silver	mg/kg	45.0	0	50	90.0	75-125	L434013-02	WG452859
1,1,1,2-Tetrachloroethane	mg/kg	0.0232	0	.025	92.9	29-145	L433959-22	WG453425
1,1,1-Trichloroethane	mg/kg	0.0228	0	.025	91.2	23-147	L433959-22	WG453425
1,1,2,2-Tetrachloroethane	mg/kg	0.0196	0	.025	78.3	18-150	L433959-22	WG453425
1,1,2-Trichloroethane	mg/kg	0.0218	0	.025	87.3	35-140	L433959-22	WG453425
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0213	0	.025	85.2	10-145	L433959-22	WG453425
1,1-Dichloroethane	mg/kg	0.0218	0	.025	87.2	24-148	L433959-22	WG453425
1,1-Dichloroethene	mg/kg	0.0197	0	.025	78.7	10-149	L433959-22	WG453425
1,1-Dichloropropene	mg/kg	0.0230	0	.025	92.0	10-141	L433959-22	WG453425
1,2,3-Trichlorobenzene	mg/kg	0.0116	0	.025	46.4	10-129	L433959-22	WG453425
1,2,3-Trichloropropane	mg/kg	0.0213	0	.025	85.2	30-148	L433959-22	WG453425
1,2,3-Trimethylbenzene	mg/kg	0.0192	0	.025	76.9	10-137	L433959-22	WG453425
1,2,4-Trichlorobenzene	mg/kg	0.0126	0	.025	50.4	10-119	L433959-22	WG453425
1,2,4-Trimethylbenzene	mg/kg	0.0210	0	.025	84.0	10-145	L433959-22	WG453425
1,2-Dibromo-3-Chloropropane	mg/kg	0.0213	0	.025	85.1	19-145	L433959-22	WG453425
1,2-Dibromoethane	mg/kg	0.0219	0	.025	87.7	24-145	L433959-22	WG453425
1,2-Dichlorobenzene	mg/kg	0.0177	0	.025	70.6	12-130	L433959-22	WG453425
1,2-Dichloroethane	mg/kg	0.0186	0	.025	74.2	21-155	L433959-22	WG453425
1,2-Dichloropropane	mg/kg	0.0204	0	.025	81.7	28-144	L433959-22	WG453425
1,3,5-Trimethylbenzene	mg/kg	0.0199	0	.025	79.6	10-135	L433959-22	WG453425

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KCI Technologies
Mr. James Joyner
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Raleigh, NC 27609

Quality Assurance Report
Level II

L433946

December 04, 2009

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,3-Dichlorobenzene	mg/kg	0.0186	0	.025	74.3	10-129	L433959-22	WG453425
1,3-Dichloropropane	mg/kg	0.0203	0	.025	81.4	31-137	L433959-22	WG453425
1,4-Dichlorobenzene	mg/kg	0.0180	0	.025	71.9	10-121	L433959-22	WG453425
2,2-Dichloropropane	mg/kg	0.0242	0	.025	96.8	18-144	L433959-22	WG453425
2-Butanone (MEK)	mg/kg	0.131	0.0179	.125	90.2	21-143	L433959-22	WG453425
2-Chloroethyl vinyl ether	mg/kg	0.0911	0	.125	72.8	0-176	L433959-22	WG453425
2-Chlorotoluene	mg/kg	0.0196	0	.025	78.4	10-132	L433959-22	WG453425
4-Chlorotoluene	mg/kg	0.0193	0	.025	77.3	10-129	L433959-22	WG453425
4-Methyl-2-pentanone (MIBK)	mg/kg	0.102	0	.125	81.9	31-151	L433959-22	WG453425
Acetone	mg/kg	0.266	0.153	.125	90.6	13-158	L433959-22	WG453425
Acrylonitrile	mg/kg	0.0985	0	.125	78.8	20-154	L433959-22	WG453425
Benzene	mg/kg	0.0216	0	.025	86.4	16-143	L433959-22	WG453425
Bromobenzene	mg/kg	0.0189	0	.025	75.6	14-135	L433959-22	WG453425
Bromodichloromethane	mg/kg	0.0205	0	.025	82.2	27-139	L433959-22	WG453425
Bromoform	mg/kg	0.0189	0	.025	75.6	21-144	L433959-22	WG453425
Bromomethane	mg/kg	0.0277	0	.025	111.	0-180	L433959-22	WG453425
Carbon tetrachloride	mg/kg	0.0208	0	.025	83.1	12-149	L433959-22	WG453425
Chlorobenzene	mg/kg	0.0223	0	.025	89.2	17-134	L433959-22	WG453425
Chlorodibromomethane	mg/kg	0.0222	0	.025	88.6	28-147	L433959-22	WG453425
Chloroethane	mg/kg	0.0250	0	.025	99.8	0-172	L433959-22	WG453425
Chloroform	mg/kg	0.0216	0	.025	86.3	28-138	L433959-22	WG453425
Chloromethane	mg/kg	0.0208	0	.025	83.4	10-158	L433959-22	WG453425
cis-1,2-Dichloroethene	mg/kg	0.0220	0	.025	88.1	21-147	L433959-22	WG453425
cis-1,3-Dichloropropene	mg/kg	0.0203	0	.025	81.1	17-145	L433959-22	WG453425
Di-isopropyl ether	mg/kg	0.0229	0	.025	91.6	31-153	L433959-22	WG453425
Dibromomethane	mg/kg	0.0202	0	.025	80.6	24-147	L433959-22	WG453425
Dichlorodifluoromethane	mg/kg	0.0253	0	.025	101.	0-192	L433959-22	WG453425
Ethylbenzene	mg/kg	0.0230	0	.025	91.8	12-137	L433959-22	WG453425
Hexachloro-1,3-butadiene	mg/kg	0.00879	0	.025	35.1	10-123	L433959-22	WG453425
Isopropylbenzene	mg/kg	0.0220	0	.025	88.1	14-134	L433959-22	WG453425
Methyl tert-butyl ether	mg/kg	0.0225	0	.025	90.0	21-157	L433959-22	WG453425
Methylene Chloride	mg/kg	0.0208	0	.025	83.2	12-149	L433959-22	WG453425
n-Butylbenzene	mg/kg	0.0156	0	.025	62.3	10-130	L433959-22	WG453425
n-Propylbenzene	mg/kg	0.0194	0	.025	77.4	10-130	L433959-22	WG453425
Naphthalene	mg/kg	0.0174	0.000470	.025	67.7	0-146	L433959-22	WG453425
p-Isopropyltoluene	mg/kg	0.0169	0	.025	67.7	10-131	L433959-22	WG453425
sec-Butylbenzene	mg/kg	0.0177	0	.025	70.6	10-134	L433959-22	WG453425
Styrene	mg/kg	0.0198	0	.025	79.0	10-140	L433959-22	WG453425
tert-Butylbenzene	mg/kg	0.0192	0	.025	76.7	11-137	L433959-22	WG453425
Tetrachloroethene	mg/kg	0.0225	0	.025	90.1	10-131	L433959-22	WG453425
Toluene	mg/kg	0.0210	0	.025	83.8	12-136	L433959-22	WG453425
trans-1,2-Dichloroethene	mg/kg	0.0227	0	.025	91.0	10-143	L433959-22	WG453425
trans-1,3-Dichloropropene	mg/kg	0.0180	0	.025	72.2	16-147	L433959-22	WG453425
Trichloroethene	mg/kg	0.0221	0	.025	88.5	10-155	L433959-22	WG453425
Trichlorofluoromethane	mg/kg	0.0231	0	.025	92.3	10-154	L433959-22	WG453425
Vinyl chloride	mg/kg	0.0239	0	.025	95.5	10-159	L433959-22	WG453425
Xylenes, Total	mg/kg	0.0688	0	.075	91.7	10-138	L433959-22	WG453425
4-Bromofluorobenzene					102.1	59-140		WG453425
Dibromofluoromethane					93.97	63-139		WG453425
Toluene-d8					95.08	84-116		WG453425

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Mercury	mg/kg	0.226	0.234	90.4	70-130	3.48	20	L433987-20	WG452568
Arsenic	mg/kg	44.8	44.4	89.6	75-125	0.897	20	L434013-02	WG452859
Barium	mg/kg	112.	112.	100.	75-125	0	20	L434013-02	WG452859

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Quality Assurance Report
Level II

L433946

December 04, 2009

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Cadmium	mg/kg	43.4	44.0	86.8	75-125	1.37	20	L434013-02	WG452859
Chromium	mg/kg	64.6	66.1	91.2	75-125	2.30	20	L434013-02	WG452859
Lead	mg/kg	60.2	59.9	90.4	75-125	0.500	20	L434013-02	WG452859
Selenium	mg/kg	44.3	47.2	80.6	75-125	6.34	20	L434013-02	WG452859
Silver	mg/kg	45.5	45.0	91.0	75-125	1.10	20	L434013-02	WG452859
1,1,1,2-Tetrachloroethane	mg/kg	0.00898	0.0232	35.9	29-145	88.4*	31	L433959-22	WG453425
1,1,1-Trichloroethane	mg/kg	0.00853	0.0228	34.1	23-147	91.2*	32	L433959-22	WG453425
1,1,2,2-Tetrachloroethane	mg/kg	0.00853	0.0196	34.1	18-150	78.6*	33	L433959-22	WG453425
1,1,2-Trichloroethane	mg/kg	0.00906	0.0218	36.2	35-140	82.7*	29	L433959-22	WG453425
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00917	0.0213	36.7	10-145	79.6*	35	L433959-22	WG453425
1,1-Dichloroethane	mg/kg	0.00929	0.0218	37.2	24-148	80.5*	31	L433959-22	WG453425
1,1-Dichloroethene	mg/kg	0.00982	0.0197	39.3	10-149	66.8*	34	L433959-22	WG453425
1,1-Dichloropropene	mg/kg	0.00840	0.0230	33.6	10-141	93.0*	34	L433959-22	WG453425
1,2,3-Trichlorobenzene	mg/kg	0.00490	0.0116	19.6	10-129	81.3*	43	L433959-22	WG453425
1,2,3-Trichloropropane	mg/kg	0.00887	0.0213	35.5	30-148	82.4*	32	L433959-22	WG453425
1,2,3-Trimethylbenzene	mg/kg	0.00630	0.0192	25.2	10-137	101.*	36	L433959-22	WG453425
1,2,4-Trichlorobenzene	mg/kg	0.00489	0.0126	19.6	10-119	88.1*	44	L433959-22	WG453425
1,2,4-Trimethylbenzene	mg/kg	0.00714	0.0210	28.6	10-145	98.5*	41	L433959-22	WG453425
1,2-Dibromo-3-Chloropropane	mg/kg	0.00734	0.0213	29.4	19-145	97.3*	35	L433959-22	WG453425
1,2-Dibromoethane	mg/kg	0.00968	0.0219	38.7	24-145	77.6*	31	L433959-22	WG453425
1,2-Dichlorobenzene	mg/kg	0.00576	0.0177	23.0	12-130	102.*	35	L433959-22	WG453425
1,2-Dichloroethane	mg/kg	0.00848	0.0186	33.9	21-155	74.5*	29	L433959-22	WG453425
1,2-Dichloropropane	mg/kg	0.00860	0.0204	34.4	28-144	81.5*	30	L433959-22	WG453425
1,3,5-Trimethylbenzene	mg/kg	0.00703	0.0199	28.1	10-135	95.6*	39	L433959-22	WG453425
1,3-Dichlorobenzene	mg/kg	0.00644	0.0186	25.8	10-129	97.1*	38	L433959-22	WG453425
1,3-Dichloropropane	mg/kg	0.00877	0.0203	35.1	31-137	79.5*	29	L433959-22	WG453425
1,4-Dichlorobenzene	mg/kg	0.00574	0.0180	23.0	10-121	103.*	36	L433959-22	WG453425
2,2-Dichloropropane	mg/kg	0.00940	0.0242	37.6	18-144	88.1*	32	L433959-22	WG453425
2-Butanone (MEK)	mg/kg	0.0560	0.131	30.5	21-143	80.0*	37	L433959-22	WG453425
2-Chloroethyl vinyl ether	mg/kg	0.0436	0.0911	34.9	0-176	70.5*	50	L433959-22	WG453425
2-Chlorotoluene	mg/kg	0.00684	0.0196	27.4	10-132	96.5*	37	L433959-22	WG453425
4-Chlorotoluene	mg/kg	0.00683	0.0193	27.3	10-129	95.5*	38	L433959-22	WG453425
4-Methyl-2-pentanone (MIBK)	mg/kg	0.0434	0.102	34.7	31-151	80.9*	36	L433959-22	WG453425
Acetone	mg/kg	0.126	0.266	0*	13-158	71.4*	34	L433959-22	WG453425
Acrylonitrile	mg/kg	0.0457	0.0985	36.6	20-154	73.2*	35	L433959-22	WG453425
Benzene	mg/kg	0.00844	0.0216	33.8	16-143	87.6*	31	L433959-22	WG453425
Bromobenzene	mg/kg	0.00727	0.0189	29.1	14-135	88.9*	39	L433959-22	WG453425
Bromodichloromethane	mg/kg	0.00890	0.0205	35.6	27-139	79.1*	30	L433959-22	WG453425
Bromoform	mg/kg	0.00775	0.0189	31.0	21-144	83.6*	34	L433959-22	WG453425
Bromomethane	mg/kg	0.0124	0.0277	49.4	0-180	76.5*	41	L433959-22	WG453425
Carbon tetrachloride	mg/kg	0.00762	0.0208	30.5	12-149	92.7*	34	L433959-22	WG453425
Chlorobenzene	mg/kg	0.00849	0.0223	34.0	17-134	89.7*	34	L433959-22	WG453425
Chlorodibromomethane	mg/kg	0.00929	0.0222	37.1	28-147	81.9*	32	L433959-22	WG453425
Chloroethane	mg/kg	0.0102	0.0250	40.8	0-172	84.0*	38	L433959-22	WG453425
Chloroform	mg/kg	0.00904	0.0216	36.2	28-138	81.9*	30	L433959-22	WG453425
Chloromethane	mg/kg	0.00956	0.0208	38.2	10-158	74.3*	35	L433959-22	WG453425
cis-1,2-Dichloroethene	mg/kg	0.00954	0.0220	38.2	21-147	79.2*	31	L433959-22	WG453425
cis-1,3-Dichloropropene	mg/kg	0.00877	0.0203	35.1	17-145	79.3*	32	L433959-22	WG453425
Di-isopropyl ether	mg/kg	0.00957	0.0229	38.3	31-153	82.2*	29	L433959-22	WG453425
Dibromomethane	mg/kg	0.00896	0.0202	35.8	24-147	76.9*	30	L433959-22	WG453425
Dichlorodifluoromethane	mg/kg	0.00933	0.0253	37.3	0-192	92.3*	38	L433959-22	WG453425
Ethylbenzene	mg/kg	0.00839	0.0230	33.5	12-137	93.0*	36	L433959-22	WG453425
Hexachloro-1,3-butadiene	mg/kg	0.00374	0.00879	15.0	10-123	80.5*	50	L433959-22	WG453425
Isopropylbenzene	mg/kg	0.00756	0.0220	30.2	14-134	97.8*	37	L433959-22	WG453425
Methyl tert-butyl ether	mg/kg	0.00945	0.0225	37.8	21-157	81.8*	31	L433959-22	WG453425
Methylene Chloride	mg/kg	0.00952	0.0208	38.1	12-149	74.4*	31	L433959-22	WG453425
n-Butylbenzene	mg/kg	0.00484	0.0156	19.4	10-130	105.*	48	L433959-22	WG453425

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Level II

L433946

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Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
n-Propylbenzene	mg/kg	0.00663	0.0194	26.5	10-130	97.9*	40	L433959-22	WG453425
Naphthalene	mg/kg	0.00606	0.0174	22.4	0-146	96.6*	43	L433959-22	WG453425
p-Isopropyltoluene	mg/kg	0.00601	0.0169	24.0	10-131	95.2*	43	L433959-22	WG453425
sec-Butylbenzene	mg/kg	0.00620	0.0177	24.8	10-134	96.1*	43	L433959-22	WG453425
Styrene	mg/kg	0.00749	0.0198	30.0	10-140	90.0*	35	L433959-22	WG453425
tert-Butylbenzene	mg/kg	0.00687	0.0192	27.5	11-137	94.5*	39	L433959-22	WG453425
Tetrachloroethene	mg/kg	0.00774	0.0225	31.0	10-131	97.7*	35	L433959-22	WG453425
Toluene	mg/kg	0.00821	0.0210	32.8	12-136	87.4*	32	L433959-22	WG453425
trans-1,2-Dichloroethene	mg/kg	0.00945	0.0227	37.8	10-143	82.6*	33	L433959-22	WG453425
trans-1,3-Dichloropropene	mg/kg	0.00807	0.0180	32.3	16-147	76.4*	32	L433959-22	WG453425
Trichloroethene	mg/kg	0.00861	0.0221	34.4	10-155	88.0*	33	L433959-22	WG453425
Trichlorofluoromethane	mg/kg	0.00851	0.0231	34.0	10-154	92.2*	32	L433959-22	WG453425
Vinyl chloride	mg/kg	0.0103	0.0239	41.1	10-159	79.6*	36	L433959-22	WG453425
Xylenes, Total	mg/kg	0.0250	0.0688	33.3	10-138	93.5*	36	L433959-22	WG453425
4-Bromofluorobenzene				109.3	59-140				WG453425
Dibromofluoromethane				94.32	63-139				WG453425
Toluene-d8				95.05	84-116				WG453425

Batch number /Run number / Sample number cross reference

WG452568: R1012189: L433946-01 02 03 04
WG453142: R1016334: L433946-01 02 03 04
WG452859: R1016469: L433946-01 02 03 04
WG453425: R1018431: L433946-01 02 03 04

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
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Est. 1970

KCI Technologies
Mr. James Joyner
4601 Six Forks Road, Ste 220

Raleigh, NC 27609

Quality Assurance Report
Level II

L433946

December 04, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address

KCI Associates of NC
Landmark Center II, Suite 200
4601 Six Forks Road
Raleigh, NC 27609

Alternate Billing

Report to: James Joyner

E-mail to: james.joyner@kci.com

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by: C075

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Project Description: Town of Edenton

City/State Edenton, NC

PHONE: (919) 783-9214
FAX: (919) 783-9266

Client Project No. 12091396B

Lab Project #

Collected by: Kevin O'Brian

Site/Facility ID#

P.O.#

CoCode (lab use only)

Collected by(signature):

Packed on Ice N___ Y X

Rush? (Lab MUST be Notified)
_____Same Day.....200%
_____Next Day.....100%
_____Two Day.....50%

Date Results Needed: Normal TAT

Email? ___No X Yes
FAX? X No ___Yes

Template/Prelogin

Shipped Via: Raleigh Service Center

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	VOCs X 8260B	RCRA Metals							Remarks/contaminant	Sample # (lab only)
SS-1	Grab	SS	6-12"	11/24/09	13:10	5	X	X								L433946-01
SS-2	Grab	SS	6-12"	11/24/09	13:20	5	X	X								-02
SS-3	Grab	SS	6"-12"	11/24/09	13:30	5	X	X								-03
BG-1	Grab	SS	6-12"	11/24/09	13:40	5	X	X								-04

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Remarks:

Flow_____ Other_____

Relinquisher by:(Signature	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx__ UPS__Other__		Condition (lab use only)
	11/24/09	16:45		Bus		OK
Relinquisher by:(Signature	Date:	Time:	Received by: (Signature)	Temp: 35°C	Bottles Received: 20	
Relinquisher by:(Signature	Date:	Time:	Received for lab by: (Signature)	Date: 11.25.09	Time: 0100	pH Checked: NCF: