

01761160
State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109

FOR OGCC USE ONLY
RECEIVED

JAN 07 2011

COGCC

OGCC Employee:

☒ Spill ☐ Complaint
☐ Inspection ☐ NOAVTracking No: Rem #4935

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☒ Site/Facility Closure ☐ Other (describe):

GENERAL INFORMATION

OGCC Operator Number: <u>69175</u>		Contact Name and Telephone	
Name of Operator: <u>Petroleum Development Corporation</u>		Name: <u>Randall Ferguson</u>	
Address: <u>1775 Sherman Street, Suite 3000</u>		No: <u>(303) 860-5800</u>	
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80203</u>		Fax: <u>(303) 860-5838</u>	
API/Facility No: <u>05-123-21748</u>		County: <u>Weld</u>	
Facility Name: <u>B. Johnson</u>		Facility Number: <u>11, 12-11</u>	
Well Name: <u>B. Johnson</u>		Well Number: <u>11-11</u>	
Location (Qtr/Sec, Twp, Rng, Meridian): <u>NWNW Sec 11 T6N R65W 6th Principal Meridian</u> Latitude: Longitude:			

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.):		<u>Condensate and produced water</u>	
Site Conditions: Is location within a sensitive area (according to Rule 901e)?		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N If yes, attach evaluation. Groundwater < 20 feet bgs.	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.):		<u>Irrigated cropland</u>	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan:		<u>Olney fine sandy loam, 1 to 3 percent slopes</u>	
Potential receptors (water wells within 1/4 mi, surface waters, etc.):		<u>Surface water is located 60' southwest of the site; a building is located 125' west of the site; a water well is located 520' northwest of the site; and depth to groundwater is 9' below ground surface (bgs).</u>	
Description of Impact (if previously provided, refer to that form or document):			
Impacted Media (check):	Extent of Impact:	How Determined:	
<input checked="" type="checkbox"/> Soils	<u>33' N-S x 23' E-W x 9' bgs</u>	<u>Laboratory analysis and field screening of soil samples</u>	
<input type="checkbox"/> Vegetation			
<input checked="" type="checkbox"/> Groundwater	<u>See attached data</u>	<u>Laboratory analysis of groundwater samples</u>	
<input type="checkbox"/> Surface water			

REMEDIALATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):	
Form 19 was submitted on 10/21/2009 (Spill #1632793). An initial Form 27 submitted on 4/2/2010 (Remediation #4935).	
Describe how source is to be removed:	
During a routine tank battery upgrade, a leak in the dumlaine from the separator to the produced water tank was observed to have released an unknown volume of produced water and condensate into the subsurface. Once the dumlaine was removed, impacted soil was excavated. Soil samples were collected from the sidewalls of the excavation and submitted for analysis of BTEX and TPH-GRO by EPA Method 8260B and TPH-DRO by EPA Modified Method 8015. Laboratory analytical results indicate BTEX and TPH concentrations are in compliance with COGCC Table 910-1 Concentration Levels. Due to the proximity of an irrigation pond to the release area, two surface water samples were collected and analyzed for BTEX by EPA method 8260B. Laboratory analytical results indicated BTEX levels in the surface water were in compliance with the CDPHE WQCC Regulation 41 (Reg.41) standards. Groundwater entering the excavation was sampled and analyzed for BTEX by EPA method 8260B. Laboratory analytical results indicated only the benzene concentration was not in compliance with the Reg. 41 concentration level. Before backfilling the excavation, activated carbon was applied to the groundwater and exposed smear zone soils to remediate the remaining hydrocarbons. A topographic site location map and a site map are provided as Figures 1 and 2, respectively. Soil, groundwater, and surface water analytical results are summarized in Tables 1, 2, and 3, respectively.	
Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:	
Approx. 253 cubic yards of soil exceeding COGCC Table 910-1 Concentration Levels was removed and transported to the Waste Management landfill in Ault, CO for disposal.	

State of Colorado
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado
(303) 894-2100 Fax 894-2109

REMEDATION WORKPLAN (CONT.)

OGCC Employee:

Axelson

Tracking Number: Rem # 4935
Name of Operator: Petroleum Development Corporation
OGCC Operator No: 69175
Received Date: 1/7/11
Well Name & No: B. Johnson 11-11
Facility Name & No: B. Johnson 11, 12-11

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Monitoring wells MW01 through MW03 were installed at the site on November 30, 2009. Each of the wells were sampled on a quarterly basis from December 2009 through September 2010. Groundwater samples were collected from each of the wells and were submitted for laboratory analysis of BTEX by EPA method 8260B. Laboratory analytical results indicate four consecutive quarters of BTEX concentrations in compliance with Reg. 41 standards has been achieved.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The site was restored to pre-release grade. PDC's production facility remains at the site.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

Laboratory analytical results indicate BTEX concentrations in groundwater have been below laboratory reporting limits and in compliance with Reg. 41 standards for four consecutive quarters. Laboratory analytical results indicate the former groundwater impacts have been remediated. Based on these laboratory analytical results, PDC is requesting a No Further Action determination for this site.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Approx. 253 cubic yards of soil exceeding COGCC Table 910-1 Concentration Levels was transported to the Waste Management landfill in Ault, CO for disposal.

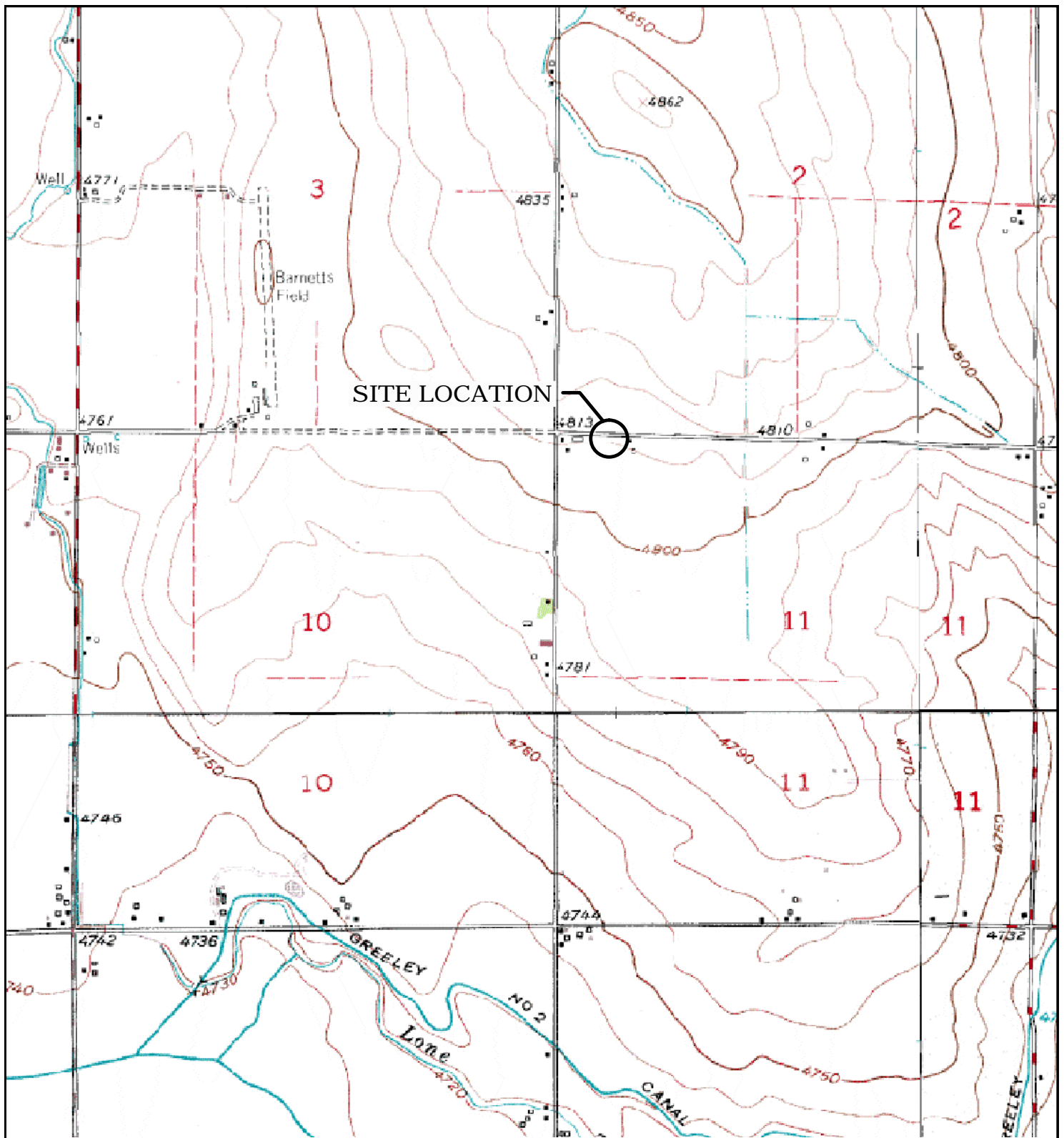
IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	<u>9/3/2009</u>	Date Site Investigation Completed:	<u>9/10/2010</u>	Remediation Plan Submitted:	<u>4/2/2010</u>
Remediation Start Date:	<u>9/3/2009</u>	Anticipated Completion Date:	<u>NA</u>	Actual Completion Date:	<u>9/10/2010</u>

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Randall FergusonSigned: Randall Ferguson Title: Environmental Supervisor Date: 1/7/2011OGCC Approved: [Signature] Title: EPS Date: 1/10/11

Note: This is a supplemental Form 27 for previously approved remediation workplan - COGCC Project # 4935.



LEGEND

○ SITE LOCATION

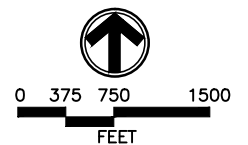









FIGURE 1
 SITE LOCATION MAP
 B. JOHNSON 11 & 12-11
 NWNW 11 6N 65W
 WELD COUNTY, CO
 PETROLEUM DEVELOPMENT CORPORATION



SOURCE: TOPOZONE.COM
 USGS 7.5' QUADRANGLE
 (NAD27)

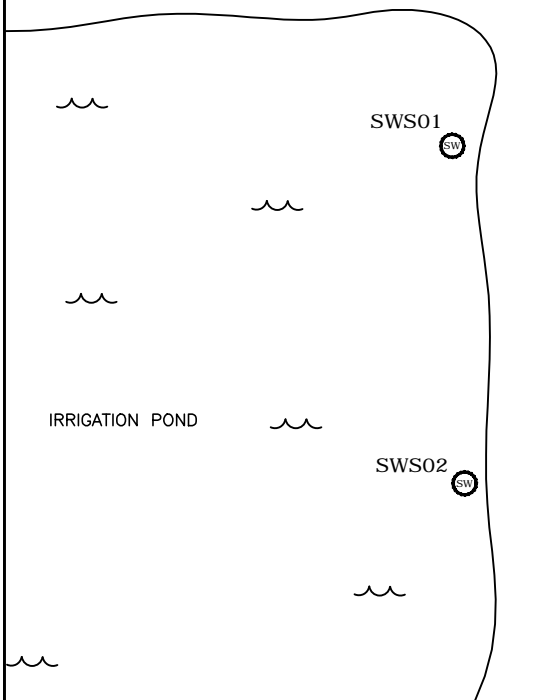
LEGEND

- MW01  MONITORING WELL LOCATION
- SWS01  SURFACE WATER SAMPLE LOCATION
- N01  SOIL SAMPLE LOCATION
- GW01  WATER SAMPLE LOCATION
-  METER HOUSE
-  BERM
- X RELEASE LOCATION
- - - - - EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION

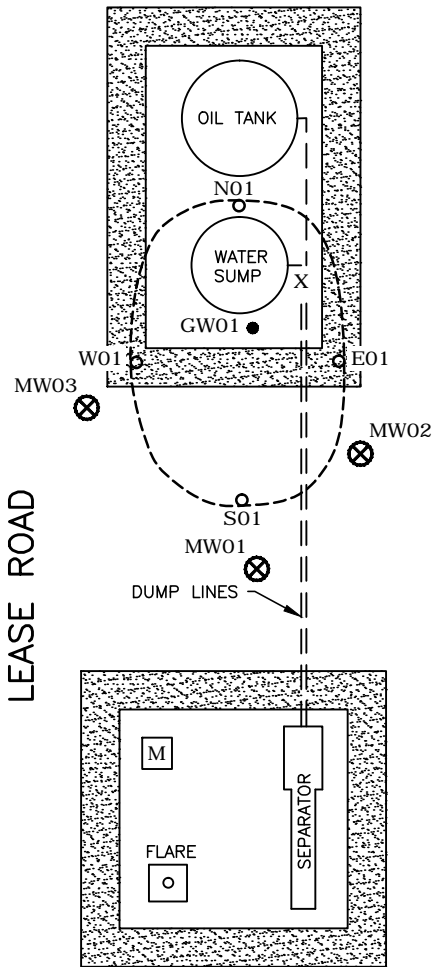
FARM EQUIPMENT



FARM ACCESS ROAD



LEASE ROAD



LEASE ROAD

AGRICULTURE

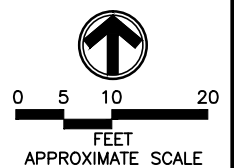



FIGURE 2
SITE MAP
B. JOHNSON 11 & 12-11
NWNW 11 6N 65W
WELD COUNTY, CO
PETROLEUM DEVELOPMENT CORPORATION



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
B. JOHNSON 11, 12-11 (API No. 05-123-21748)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Depth (ft bgs)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	TPH (mg/kg)
E01	3.5	09/08/2009	0.0056	<0.0050	<0.0050	<0.0050	<50.5
N01	4.5	09/08/2009	<0.010	<0.010	<0.010	<0.010	<51
S01	4	09/08/2009	<0.010	<0.010	<0.010	<0.010	<51
W01	4	09/08/2009	<0.0050	<0.0050	<0.0050	<0.0050	1.5
Basic Standards for Soil			0.17	85	100	175	500

Notes: < - less than stated laboratory reporting limit
TPH - Total Petroleum Hydrocarbons (C6-C28)
API - American Petroleum Institute
Bold numbers indicate result equalled or exceeded standard.
Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.

NA - Not Analyzed
mg/kg - milligrams per kilogram
ft bgs - feet below ground surface



TABLE 2
GROUNDWATER ANALYTICAL RESULTS AND FIELD PARAMETERS
B. JOHNSON 11, 12-11 (API No. 123-21748)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Depth to Water (ft btoc)
GW01	09/03/2009	2900	1400	300	3000	NM
MW01	12/03/2009	<1.0	<1.0	<1.0	<1.0	4.17
	04/02/2010	<1.0	<1.0	<1.0	<1.0	5.39
	06/23/2010	<1.0	<1.0	<1.0	<1.0	2.84
	09/10/2010	<1.0	<1.0	<1.0	<1.0	1.89
MW02	12/03/2009	<1.0	<1.0	<1.0	<1.0	4.45
	04/02/2010	<1.0	<1.0	<1.0	<1.0	5.53
	06/23/2010	<1.0	<1.0	<1.0	<1.0	3.18
	09/10/2010	<1.0	<1.0	<1.0	<1.0	2.41
MW03	12/03/2009	<1.0	<1.0	<1.0	<1.0	4.92
	04/02/2010	<1.0	<1.0	<1.0	<1.0	6.03
	06/23/2010	<1.0	<1.0	<1.0	<1.0	3.46
	09/10/2010	<1.0	<1.0	<1.0	<1.0	2.20
Basic Standards for Groundwater:		5	560	700	1400	

Notes: < - less than ug/L - micrograms per Liter NA - Not Analyzed/Not Available
ft btoc - feet below top of casing NM - Not measured API - American Petroleum Institute
Basic Standards for Groundwater are taken from the Colorado Department of Health and Environment -
Water Quality Control Commission Regulation 41, effective 4/1/2009.
Bold numbers indicate result equaled or exceeded standard.



TABLE 3
SURFACE WATER ANALYTICAL RESULTS
B. JOHNSON 11, 12-11 (API No. 123-21748)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)
SWS01	09/08/2009	<1.0	<1.0	<1.0	<1.0
SWS02	09/08/2009	<1.0	<1.0	<1.0	<1.0

Notes: < - less than

API - American Petroleum Institute

ug/L - micrograms per Liter

NA - Not Analyzed/Not Available



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 08, 2009

John Peterson
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 09/03/09 14:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'LS' followed by a long horizontal stroke.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/08/09 15:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	R909023-01	Water	09/03/09 11:00	09/03/09 14:25

Summit Scientific 2909023

S₂
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page of

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

Project Manager: John Peterson

Project Manager: John Peterson

Civ/State/Zip: Arvada, CO 80003

E-Mail: jpeterson@ltenv.com

phone: (303) 433-9788

Project Name: B. Johnson 11/2/2-11

Project Name: B. Johnson 11/2/2-11

Sample Name: Asheville

Project Number: PD09021

[illegible]

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/08/09 15:00

GW01
R909023-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/03/09 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2900	20	ug/l	20	9090409	09/04/09	09/05/09	EPA 8260B	
Toluene	1400	10	"	10	"	"	"	"	
Ethylbenzene	300	10	"	"	"	"	"	"	
Xylenes (total)	3000	10	"	"	"	"	"	"	

Date Sampled: **09/03/09 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	74.3-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		109 %	87.7-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	83.5-115		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/08/09 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9090409 - EPA 5030 Water MS

Blank (9090409-BLK1)

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3	106	74.3-129				
Surrogate: Toluene-d8	13.4		"	13.3	101	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.5	83.5-115				

LCS (9090409-BS1)

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	23.3	1.0	ug/l	33.3	69.9	70-114			8.14	
Toluene	25.3	1.0	"	33.3	76.0	72.7-116			7.88	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3	108	74.3-129				
Surrogate: Toluene-d8	12.1		"	13.3	90.5	87.7-110				
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3	88.2	83.5-115				

LCS Dup (9090409-BSD1)

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	22.9	1.0	ug/l	33.3	68.6	70-114	1.86		8.14	
Toluene	24.7	1.0	"	33.3	74.1	72.7-116	2.56		7.88	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3	109	74.3-129				
Surrogate: Toluene-d8	13.0		"	13.3	97.2	87.7-110				
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3	89.0	83.5-115				

Matrix Spike (9090409-MS1)

Source: R909025-01

Prepared: 09/04/09 Analyzed: 09/05/09

Benzene	22.6	1.0	ug/l	33.3	ND	67.8	66.8-117		17.8	
Toluene	24.5	1.0	"	33.3	ND	73.6	71.5-117		14.4	
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3		113	74.3-129			
Surrogate: Toluene-d8	12.2		"	13.3		91.4	87.7-110			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.1	83.5-115			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/08/09 15:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9090409 - EPA 5030 Water MS

Matrix Spike Dup (9090409-MSD1)		Source: R909025-01			Prepared: 09/04/09		Analyzed: 09/05/09			
Benzene	22.2	1.0	ug/l	33.3	ND	66.7	66.8-117	1.56	17.8	
Toluene	25.5	1.0	"	33.3	ND	76.5	71.5-117	3.88	14.4	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	74.3-129			
Surrogate: Toluene-d8	12.3		"	13.3		92.2	87.7-110			
Surrogate: 4-Bromofluorobenzene	11.3		"	13.3		84.5	83.5-115			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/08/09 15:00

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to be 'JM' followed by a long horizontal stroke.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 10, 2009

John Peterson
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 09/09/09 10:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'LS' followed by a long, sweeping horizontal line.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@4.5'	R909040-01	Soil	09/08/09 15:41	09/09/09 10:40
S01@4'	R909040-02	Soil	09/08/09 15:31	09/09/09 10:40
E01@3.5'	R909040-03	Soil	09/08/09 15:29	09/09/09 10:40
W01@4'	R909040-04	Soil	09/08/09 15:39	09/09/09 10:40
SWS01	R909040-05	Water	09/08/09 00:00	09/09/09 10:40
SWS02	R909040-06	Water	09/08/09 00:00	09/09/09 10:40

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

Summit Scientific
2909040

52

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303-277-9310 ♦ 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name: ATD Asher

1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325</
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Project Manager: John Peterson

E-Mail: jpeterson@ltenv.com

Project Name: B. Johnson 11/12-11

Project Number: PDC09021

[illegible]

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

N01@4.5'
R909040-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/10/09	8015 DRO	

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.4 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.010	mg/kg	2	9090905	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.4 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		95.7 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	85.3-109		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

S01@4'
R909040-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/10/09	8015 DRO	

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.010	mg/kg	2	9090905	09/09/09	09/10/09	EPA 8260B	
Toluene	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:31**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		100 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	85.3-109		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

E01@3.5'
R909040-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/10/09	8015 DRO	

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0056	0.0050	mg/kg	1	9090905	09/09/09	09/10/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	85.3-109		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

W01@4'
R909040-04 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	9090906	09/09/09	09/09/09	8015 DRO	

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	77.7-123		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9090905	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.5	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/09 15:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		100 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	85.3-109		"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

SWS01
R909040-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	9090903	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		111 %		74.3-129		"	"	"	"	
Surrogate: Toluene-d8		104 %		87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %		83.5-115		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

SWS02
R909040-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	9090903	09/09/09	09/09/09	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/08/09 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		106 %		74.3-129		"	"	"	"	
Surrogate: Toluene-d8		106 %		87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		83.5-115		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9090906 - EPA 3550A

Blank (9090906-BLK1)

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.5 " 12.5 99.9 77.7-123

LCS (9090906-BS1)

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO) 516 50 mg/kg 500 103 83.3-127 15

LCS Dup (9090906-BSD1)

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO) 514 50 mg/kg 500 103 83.3-127 0.199 15

Matrix Spike (9090906-MS1)

Source: R909040-01

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO) 518 50 mg/kg 500 ND 104 75.8-126 13.6

Matrix Spike Dup (9090906-MSD1)

Source: R909040-01

Prepared: 09/09/09 Analyzed: 09/10/09

C10-C28 (DRO) 501 50 mg/kg 500 ND 100 75.8-126 3.22 13.6

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11
Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9090903 - EPA 5030 Water MS

Blank (9090903-BLK1)

Prepared & Analyzed: 09/09/09

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	74.3-129			
Surrogate: Toluene-d8	14.6		"	13.3		110	87.7-110			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	83.5-115			

LCS (9090903-BS1)

Prepared & Analyzed: 09/09/09

Benzene	27.0	1.0	ug/l	33.3		81.1	70-114		8.14	
Toluene	31.4	1.0	"	33.3		94.2	72.7-116		7.88	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	74.3-129			
Surrogate: Toluene-d8	13.5		"	13.3		101	87.7-110			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		89.9	83.5-115			

LCS Dup (9090903-BSD1)

Prepared & Analyzed: 09/09/09

Benzene	28.0	1.0	ug/l	33.3		84.0	70-114	3.53	8.14	
Toluene	30.7	1.0	"	33.3		92.0	72.7-116	2.35	7.88	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	74.3-129			
Surrogate: Toluene-d8	14.3		"	13.3		107	87.7-110			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.3	83.5-115			

Batch 9090905 - EPA 5030 Soil MS

Blank (9090905-BLK1)

Prepared & Analyzed: 09/09/09

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.7	77.3-121			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	85.3-109			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9090905 - EPA 5030 Soil MS

LCS (9090905-BS1)

Prepared & Analyzed: 09/09/09

Benzene	0.0861	0.0050	mg/kg	0.100		86.1	70-114		8.14	
Toluene	0.0966	0.0050	"	0.100		96.6	72.7-116		7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.1	77.3-121			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.6	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.1	85.3-109			

LCS Dup (9090905-BSD1)

Prepared & Analyzed: 09/09/09

Benzene	0.0874	0.0050	mg/kg	0.100		87.4	70-114	1.52	8.14	
Toluene	0.0982	0.0050	"	0.100		98.2	72.7-116	1.60	7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.8	77.3-121			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.1	85.3-109			

Matrix Spike (9090905-MS1)

Source: R909040-01

Prepared & Analyzed: 09/09/09

Benzene	0.111	0.0050	mg/kg	0.100	ND	111	66.8-117		17.8	
Toluene	0.0991	0.0050	"	0.100	ND	99.1	71.5-117		14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	77.3-121			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	85.3-109			

Matrix Spike Dup (9090905-MSD1)

Source: R909040-01

Prepared & Analyzed: 09/09/09

Benzene	0.115	0.0050	mg/kg	0.100	ND	115	66.8-117	3.44	17.8	
Toluene	0.102	0.0050	"	0.100	ND	102	71.5-117	2.98	14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0553		"	0.0400		138	77.3-121			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	85.3-109			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
09/10/09 15:10

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to be 'JM' followed by a long horizontal stroke.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 10, 2009

John Peterson
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 12/04/09 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'PS' followed by a long, sweeping horizontal line.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R912022-01	Water	12/03/09 14:30	12/04/09 16:30
MW02	R912022-02	Water	12/03/09 14:45	12/04/09 16:30
MW03	R912022-03	Water	12/03/09 15:00	12/04/09 16:30

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

Summit Scientific
S₂ 2/9/2022

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page of

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

phone: (303) 433-9788

Sampler Name: KACB

Supplier Name: FLC

Project Manager: John Peterson

E-Mail: ipeterson@ltnv.com

Project Name: B. Johnson 11/12-11

Project Number: P009021

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative						Matrix		Analyze For:		Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)				DRO
M1001	12/3/09 12/3/09	1430	2	X					X						
M1002	12/3/09 12/3/09	1445	↓						X						
M1003	12/3/09 12/3/09	1500	↓												
Relinquished by:	Date/Time: <i>[Signature]</i> 12/4/09 16:30	Received by:							Date/Time:			Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>		Notes:	
Relinquished by:	Date/Time:	Received by:							Date/Time:			Sample Integrity: Temperature Upon Receipt: 4/ Intact: Yes No			
Relinquished by:	Date/Time:	Received in Lab by:							Date/Time:						

www.s2scientific.com

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

MW01
R912022-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/09 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9120702	12/07/09	12/08/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/03/09 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.8 %	74.3-129		"	"	"	"	
Surrogate: Toluene-d8		101 %	87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	83.5-115		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

MW02
R912022-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/09 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9120702	12/07/09	12/08/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/03/09 14:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	74.3-129		"	"	"	"	
Surrogate: Toluene-d8		102 %	87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	83.5-115		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

MW03
R912022-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/09 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9120702	12/07/09	12/08/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/03/09 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	74.3-129		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	83.5-115		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11
Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9120702 - EPA 5030 Water MS

Blank (9120702-BLK1)

Prepared & Analyzed: 12/07/09

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.8	74.3-129			
Surrogate: Toluene-d8	13.3		"	13.3		100	87.7-110			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		102	83.5-115			

LCS (9120702-BS1)

Prepared & Analyzed: 12/07/09

Benzene	35.2	1.0	ug/l	33.3		106	70-114		8.14	
Toluene	35.8	1.0	"	33.3		107	72.7-116		7.88	
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		99.8	74.3-129			
Surrogate: Toluene-d8	13.3		"	13.3		100	87.7-110			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	83.5-115			

LCS Dup (9120702-BSD1)

Prepared & Analyzed: 12/07/09

Benzene	35.6	1.0	ug/l	33.3		107	70-114	1.05	8.14	
Toluene	35.0	1.0	"	33.3		105	72.7-116	2.12	7.88	
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.5	74.3-129			
Surrogate: Toluene-d8	12.8		"	13.3		95.6	87.7-110			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	83.5-115			

Matrix Spike (9120702-MS1)

Source: R912014-01

Prepared & Analyzed: 12/07/09

Benzene	38.0	1.0	ug/l	33.3	ND	114	66.8-117		17.8	
Toluene	37.6	1.0	"	33.3	ND	113	71.5-117		14.4	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	74.3-129			
Surrogate: Toluene-d8	13.5		"	13.3		102	87.7-110			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	83.5-115			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 9120702 - EPA 5030 Water MS

Matrix Spike Dup (9120702-MSD1)		Source: R912014-01			Prepared & Analyzed: 12/07/09					
Benzene	34.4	1.0	ug/l	33.3	ND	103	66.8-117	9.92	17.8	
Toluene	34.4	1.0	"	33.3	ND	103	71.5-117	9.01	14.4	
Surrogate: 1,2-Dichloroethane-d4	16.4		"	13.3		123	74.3-129			
Surrogate: Toluene-d8	13.7		"	13.3		102	87.7-110			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	83.5-115			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: John Peterson

Reported:
12/10/09 10:40

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to be 'JM' followed by a long horizontal stroke.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

April 06, 2010

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Johnson 11+12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS' or 'Shrewsbury', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R004023-01	Water	04/02/10 15:05	04/02/10 17:00
MW02	R004023-02	Water	04/02/10 15:10	04/02/10 17:00
MW03	R004023-03	Water	04/02/10 15:15	04/02/10 17:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

MW01
R004023-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/10 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0040303	04/03/10	04/04/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/02/10 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.5 %	70.4-127		"	"	"	"	
Surrogate: Toluene-d8		100 %	85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	83.9-116		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

MW02
R004023-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/10 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0040303	04/03/10	04/04/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **04/02/10 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		79.6 %		70.4-127		"	"	"	"	
Surrogate: Toluene-d8		104 %		85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		83.9-116		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

MW03
R004023-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/02/10 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0040303	04/03/10	04/04/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **04/02/10 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		81.5 %		70.4-127		"	"	"	"	
Surrogate: Toluene-d8		102 %		85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %		83.9-116		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0040303 - EPA 5030 Water MS

Blank (0040303-BLK1)

Prepared & Analyzed: 04/03/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	10.3		"	13.3		77.6	70.4-127			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	85.7-111			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	83.9-116			

LCS (0040303-BS1)

Prepared & Analyzed: 04/03/10

Benzene	35.5	1.0	ug/l	33.3		107	64.2-127		10.9	
Toluene	36.7	1.0	"	33.3		110	66.4-125		11.3	
Ethylbenzene	29.8	1.0	"	33.3		89.4	70-130		20	
m,p-Xylene	69.2	2.0	"	66.7		104	70-130		20	
o-Xylene	27.4	1.0	"	33.3		82.2	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.3		84.5	70.4-127			
Surrogate: Toluene-d8	13.6		"	13.3		102	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	83.9-116			

LCS Dup (0040303-BSD1)

Prepared & Analyzed: 04/03/10

Benzene	36.5	1.0	ug/l	33.3		109	64.2-127	2.58	10.9	
Toluene	37.2	1.0	"	33.3		112	66.4-125	1.38	11.3	
Ethylbenzene	27.2	1.0	"	33.3		81.5	70-130	9.24	20	
m,p-Xylene	63.7	2.0	"	66.7		95.6	70-130	8.27	20	
o-Xylene	25.8	1.0	"	33.3		77.5	70-130	5.86	20	
Surrogate: 1,2-Dichloroethane-d4	11.5		"	13.3		86.0	70.4-127			
Surrogate: Toluene-d8	13.9		"	13.3		104	85.7-111			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.9	83.9-116			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0040303 - EPA 5030 Water MS

Matrix Spike (0040303-MS1)		Source: R004026-01			Prepared & Analyzed: 04/03/10					
Benzene	36.9	1.0	ug/l	33.3	ND	111	57.4-127		19.3	
Toluene	37.8	1.0	"	33.3	ND	113	60.1-123		18.7	
Ethylbenzene	26.9	1.0	"	33.3	ND	80.8	70-130		20	
m,p-Xylene	60.5	2.0	"	66.7	ND	90.8	70-130		20	
o-Xylene	25.6	1.0	"	33.3	ND	76.7	70-130		20	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	11.6		"	13.3		87.2	70.4-127			
Surrogate: Toluene-d8	14.1		"	13.3		106	85.7-111			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.7	83.9-116			
<hr/>										
Matrix Spike Dup (0040303-MSD1)		Source: R004026-01			Prepared & Analyzed: 04/03/10					
Benzene	36.3	1.0	ug/l	33.3	ND	109	57.4-127	1.42	19.3	
Toluene	37.0	1.0	"	33.3	ND	111	60.1-123	1.98	18.7	
Ethylbenzene	27.4	1.0	"	33.3	ND	82.1	70-130	1.69	20	
m,p-Xylene	61.6	2.0	"	66.7	ND	92.5	70-130	1.82	20	
o-Xylene	26.2	1.0	"	33.3	ND	78.5	70-130	2.24	20	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	11.5		"	13.3		86.3	70.4-127			
Surrogate: Toluene-d8	13.8		"	13.3		104	85.7-111			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	83.9-116			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Johnson 11+12-11

Project Number: PDC09021
Project Manager: Brian Dodek

Reported:
04/06/10 12:13

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

A handwritten signature in black ink, appearing to be 'JMM'.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 28, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 06/23/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'LS' followed by a long horizontal stroke.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R006140-01	Water	06/23/10 14:30	06/23/10 17:00
MW02	R006140-02	Water	06/23/10 14:35	06/23/10 17:00
MW03	R006140-03	Water	06/23/10 14:40	06/23/10 17:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

2006/40

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Fax: (303) 433-1432

Sampler Name: 50

1

Project Manager: Richard Dadek

E-Mail: bdw@kalttenus.com

Project Name: Δ. Johnson 11-12-11

Project Number: AX 69021

						Preservative		Matrix		Analyze For:		Special Instructions
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	
MW01	6/23	1430	3	X				X			Risk Score	
MW02	6/23	1435	3	X				X				
MW03	6/23	1440	3	X				X				
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>		Notes:		
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Sample Integrity: Temperature Upon Receipt: 5.4 Intact: Yes No				
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____								

...Cedric's ...

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

MW01
R006140-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/23/10 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0062505	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/23/10 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70.4-127		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %	83.9-116		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

MW02
R006140-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/23/10 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0062505	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/10 14:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		91.9 %		70.4-127		"	"	"	"	
Surrogate: Toluene-d8		99.3 %		85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		83.9-116		"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

MW03
R006140-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/23/10 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0062505	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/23/10 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		94.4 %		70.4-127		"	"	"	"	
Surrogate: Toluene-d8		98.7 %		85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		83.9-116		"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Reporting				Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0062505 - EPA 5030 Water MS

Blank (0062505-BLK1)

Prepared: 06/25/10 Analyzed: 06/26/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		92.9	70.4-127			
Surrogate: Toluene-d8	13.2		"	13.3		98.6	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.3	83.9-116			

LCS (0062505-BS1)

Prepared: 06/25/10 Analyzed: 06/26/10

Benzene	29.1	1.0	ug/l	33.3		87.4	64.2-127		10.9	
Toluene	28.9	1.0	"	33.3		86.7	66.4-125		11.3	
Ethylbenzene	28.7	1.0	"	33.3		86.0	70-130		20	
m,p-Xylene	55.8	2.0	"	66.7		83.7	70-130		20	
o-Xylene	26.3	1.0	"	33.3		78.8	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.5	70.4-127			
Surrogate: Toluene-d8	13.6		"	13.3		102	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	83.9-116			

LCS Dup (0062505-BSD1)

Prepared: 06/25/10 Analyzed: 06/26/10

Benzene	31.5	1.0	ug/l	33.3		94.6	64.2-127	7.91	10.9	
Toluene	31.4	1.0	"	33.3		94.1	66.4-125	8.20	11.3	
Ethylbenzene	30.3	1.0	"	33.3		91.0	70-130	5.56	20	
m,p-Xylene	59.6	2.0	"	66.7		89.4	70-130	6.57	20	
o-Xylene	28.2	1.0	"	33.3		84.7	70-130	7.19	20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		99.2	70.4-127			
Surrogate: Toluene-d8	13.6		"	13.3		102	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.9	83.9-116			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0062505 - EPA 5030 Water MS

Matrix Spike (0062505-MS1)				Source: R006139-03		Prepared: 06/25/10		Analyzed: 06/26/10		
Benzene	28.4	1.0	ug/l	33.3	ND	85.3	57.4-127		19.3	
Toluene	28.3	1.0	"	33.3	ND	84.8	60.1-123		18.7	
Ethylbenzene	27.3	1.0	"	33.3	ND	81.9	70-130		20	
m,p-Xylene	53.5	2.0	"	66.7	ND	80.3	70-130		20	
o-Xylene	25.1	1.0	"	33.3	ND	75.2	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.2	70.4-127			
Surrogate: Toluene-d8	13.5		"	13.3		101	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.8	83.9-116			
Matrix Spike Dup (0062505-MSD1)				Source: R006139-03		Prepared: 06/25/10		Analyzed: 06/26/10		
Benzene	28.8	1.0	ug/l	33.3	ND	86.5	57.4-127	1.40	19.3	
Toluene	28.4	1.0	"	33.3	ND	85.2	60.1-123	0.424	18.7	
Ethylbenzene	27.9	1.0	"	33.3	ND	83.8	70-130	2.35	20	
m,p-Xylene	55.0	2.0	"	66.7	ND	82.4	70-130	2.60	20	
o-Xylene	25.7	1.0	"	33.3	ND	77.1	70-130	2.52	20	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.1	70.4-127			
Surrogate: Toluene-d8	13.5		"	13.3		101	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5	83.9-116			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
06/28/10 14:16

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 19, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - B. Johnson 11, 12-11

Enclosed are the results of analyses for samples received by Summit Scientific on 09/10/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'LS' followed by a long horizontal stroke.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R009083-01	Water	09/10/10 10:30	09/10/10 17:00
MW02	R009083-02	Water	09/10/10 10:35	09/10/10 17:00
MW03	R009083-03	Water	09/10/10 10:40	09/10/10 17:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

phone: (303) 433-9788

Comet/Or Name: *P. 2001*

Sampler Name: J. K. G. G.

Project Manager:

E-Mail:

Project Name:

Project Number: A

Project Number: 7

1

1

1

1

1

Preservative						Matrix			Analyze For:										
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX	Table 9.10 Full	Table 9.10 Short	pH / EC	SAR	Special Instructions
MW01	9/10	1030	3	X				X						XXX					
MW02	9/10	1035	3	X				X											
MW03	9/10	1040	3	X				X											
Relinquished by:	Date/Time:				Received by:	Date/Time:	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> Standard 48 Hours <input type="checkbox"/>			Notes:									
Relinquished by:	Date/Time:				Received by:	Date/Time:													
Relinquished by:	Date/Time:				Received by:	Date/Time:													
Relinquished by:	Date/Time:				Received by:	Date/Time:													

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

MW01
R009083-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/10/10 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0091608	09/16/10	09/17/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/10/10 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.6 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		80.8-120		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

MW02
R009083-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/10/10 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0091608	09/16/10	09/17/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/10/10 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.7 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %		80.8-120		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

MW03
R009083-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/10/10 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	0091608	09/16/10	09/17/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/10/10 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80.8-120		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0091608 - EPA 5030 Water MS

Blank (0091608-BLK1)

Prepared: 09/16/10 Analyzed: 09/17/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3	105	57.9-139				
Surrogate: Toluene-d8	13.1		"	13.3	98.2	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3	96.9	80.8-120				

LCS (0091608-BS1)

Prepared: 09/16/10 Analyzed: 09/17/10

Benzene	29.6	1.0	ug/l	33.3	88.7	60.1-131		10.9		
Toluene	27.0	1.0	"	33.3	81.0	65.9-127		11.3		
Ethylbenzene	32.5	1.0	"	33.3	97.6	65.1-129		20		
m,p-Xylene	61.1	2.0	"	66.7	91.6	66.8-127		20		
o-Xylene	28.4	1.0	"	33.3	85.1	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3	106	57.9-139				
Surrogate: Toluene-d8	13.4		"	13.3	100	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3	94.6	80.8-120				

LCS Dup (0091608-BSD1)

Prepared: 09/16/10 Analyzed: 09/17/10

Benzene	30.4	1.0	ug/l	33.3	91.1	60.1-131	2.64	10.9		
Toluene	27.7	1.0	"	33.3	83.0	65.9-127	2.49	11.3		
Ethylbenzene	34.4	1.0	"	33.3	103	65.1-129	5.53	20		
m,p-Xylene	65.4	2.0	"	66.7	98.1	66.8-127	6.77	20		
o-Xylene	30.6	1.0	"	33.3	91.8	61.2-120	7.56	20		
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3	105	57.9-139				
Surrogate: Toluene-d8	13.3		"	13.3	100	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3	96.2	80.8-120				

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0091608 - EPA 5030 Water MS

Matrix Spike (0091608-MS1)		Source: R009083-01			Prepared: 09/16/10		Analyzed: 09/17/10			
Benzene	31.2	1.0	ug/l	33.3	ND	93.5	52.7-130		19.3	
Toluene	27.0	1.0	"	33.3	ND	81.1	57-127		18.7	
Ethylbenzene	30.4	1.0	"	33.3	ND	91.2	59.2-127		20	
m,p-Xylene	57.2	2.0	"	66.7	ND	85.8	53.2-132		20	
o-Xylene	26.6	1.0	"	33.3	ND	79.7	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	57.9-139			
Surrogate: Toluene-d8	13.4		"	13.3		101	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	80.8-120			
Matrix Spike Dup (0091608-MSD1)		Source: R009083-01			Prepared: 09/16/10		Analyzed: 09/17/10			
Benzene	29.2	1.0	ug/l	33.3	ND	87.7	52.7-130	6.39	19.3	
Toluene	26.3	1.0	"	33.3	ND	78.8	57-127	2.89	18.7	
Ethylbenzene	31.5	1.0	"	33.3	ND	94.5	59.2-127	3.62	20	
m,p-Xylene	58.7	2.0	"	66.7	ND	88.1	53.2-132	2.62	20	
o-Xylene	27.3	1.0	"	33.3	ND	81.9	56.3-117	2.71	20	
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		99.4	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.3	80.8-120			

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - B. Johnson 11, 12-11

Project Number: PDC 09021
Project Manager: Brian Dodek

Reported:
09/19/10 19:59

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.