



COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.

4600 West 60th Avenue
Arvada, Colorado 80003
T 303.433.9788 / F 303.433.1432

February 5, 2013

Mr. Robert Chesson
Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

**RE: Groundwater Monitoring Report/Request for No Further Action
Wacker 2, 22-10, 10D
API: 05-123-13596
Spill # 2521515
Remediation #6012
NENW Sec. 10 T5N R64W 6th PM
Weld County, Colorado**

Dear Mr. Chesson:

LT Environmental, Inc. (LTE), under the direction of PDC Energy, Inc. (PDC), conducted groundwater sampling activities at the Wacker 2 Tank Battery (Site) on December 20, 2012. The Site is located approximately 0.40 miles west southwest of the intersection of Weld County Road (WCR) 55.5 and WCR 60 in Weld County, Colorado. The legal site description is the northeast quarter of the northwest quarter of Section 10, Township 5 North, and Range 64 West of the 6th Principal Meridian. A Site Location Map is provided as Figure 1.

Source Removal Activities

Following the discovery of the release, PDC shut-in the wells feeding the battery. Once the dump lines were removed, approximately 1,480 cubic yards of impacted soil were excavated and transported offsite for disposal. On June 13, 2010, due to a storm event and potential irrigation of the nearby agricultural field, the excavation filled with water overnight before excavation soil samples could be collected. As a result, approximately 1,600 barrels of water were removed from the excavation with a vacuum truck. After removal, groundwater did not enter the base of the excavation.

Soil borings were installed surrounding the excavation to determine the extent of soil and groundwater impact beyond the current excavation extent. On June 14, 2010, soil samples BH01 through BH05 (Figure 2) were collected during soil boring installation activities and were submitted to Summit Scientific, Inc. (Summit) of Golden, Colorado, for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), and naphthalene by Environmental Protection Agency (EPA) Method 8260B and TPH-diesel range organics (DRO) by EPA Modified Method 8015. Soil sample BH01 was also analyzed for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C. On June 24, 2010, soil samples S01 through S11 were collected from the extent of the excavation and were submitted for laboratory analysis of BTEX and TPH-GRO by EPA Method 8260B and TPH-DRO by EPA modified Method 8015. All soil samples were compliant with Colorado Oil and Gas Conservation Commission Table 910-1 Concentration Levels. Soil analytical results are summarized in Table 1. The laboratory analytical reports are included as an attachment.



Quarterly Groundwater Monitoring

Soil borings BH01 through BH05 were installed at the site on June 14, 2010. The soil borings were completed as monitoring wells to allow for continued groundwater sampling. Following installation, each well was developed, purged, and sampled. Groundwater samples were collected from the wells and submitted to Summit for laboratory analysis of BTEX by EPA Method 8260B. Laboratory analytical results indicated BTEX concentrations in monitoring well BH03 were in compliance with the Colorado Department of Public Health and Environment Water Quality Control Commission Regulation 41 (Reg. 41) standards (Table 2). The benzene concentrations in all other monitoring wells and the toluene concentration at monitoring well BH01 were not in compliance with Reg. 41 standards. Prior to the next sampling event, monitoring wells BH02, BH04, and BH05 were destroyed by battery traffic and agricultural activities. Due to access issues, LTE was unable to replace these monitoring wells until April 2011. On April 28, 2011, monitoring wells BH02R, BH04R, and BH05R were installed to replace BH02, BH04, and BH05, respectively. Following well replacement, each well was developed, purged, and sampled. Groundwater samples were collected from the wells and submitted to Summit for laboratory analysis of BTEX by EPA Method 8260B. Laboratory analytical results indicated the BTEX concentrations in monitoring wells BH02R and BH05R were in compliance with Reg. 41 standards. Monitoring well BH04R was dry and could not be sampled. LTE continued to collect groundwater samples from the monitoring wells on a quarterly basis.

Following the most recent sampling event on December 20, 2012, laboratory analytical results confirmed BTEX concentrations in groundwater have been in compliance with Reg. 41 for four consecutive quarters (Table 2). The laboratory analytical reports are attached.

As soil and groundwater have now been remediated to achieve COGCC and Reg. 41 cleanup goals, PDC is requesting a No Further Action determination for the Site.

Should you have any questions, please contact Brandon Bruns with PDC at (303) 831-3971.

Sincerely,

LT ENVIRONMENTAL, INC.

Michael Wicker
Staff Geologist

Brian Dodek, P.G.
Client Manager/Senior Geologist

Attachments:

Figure 1 – Site Location Map

Figure 2 – Site Map

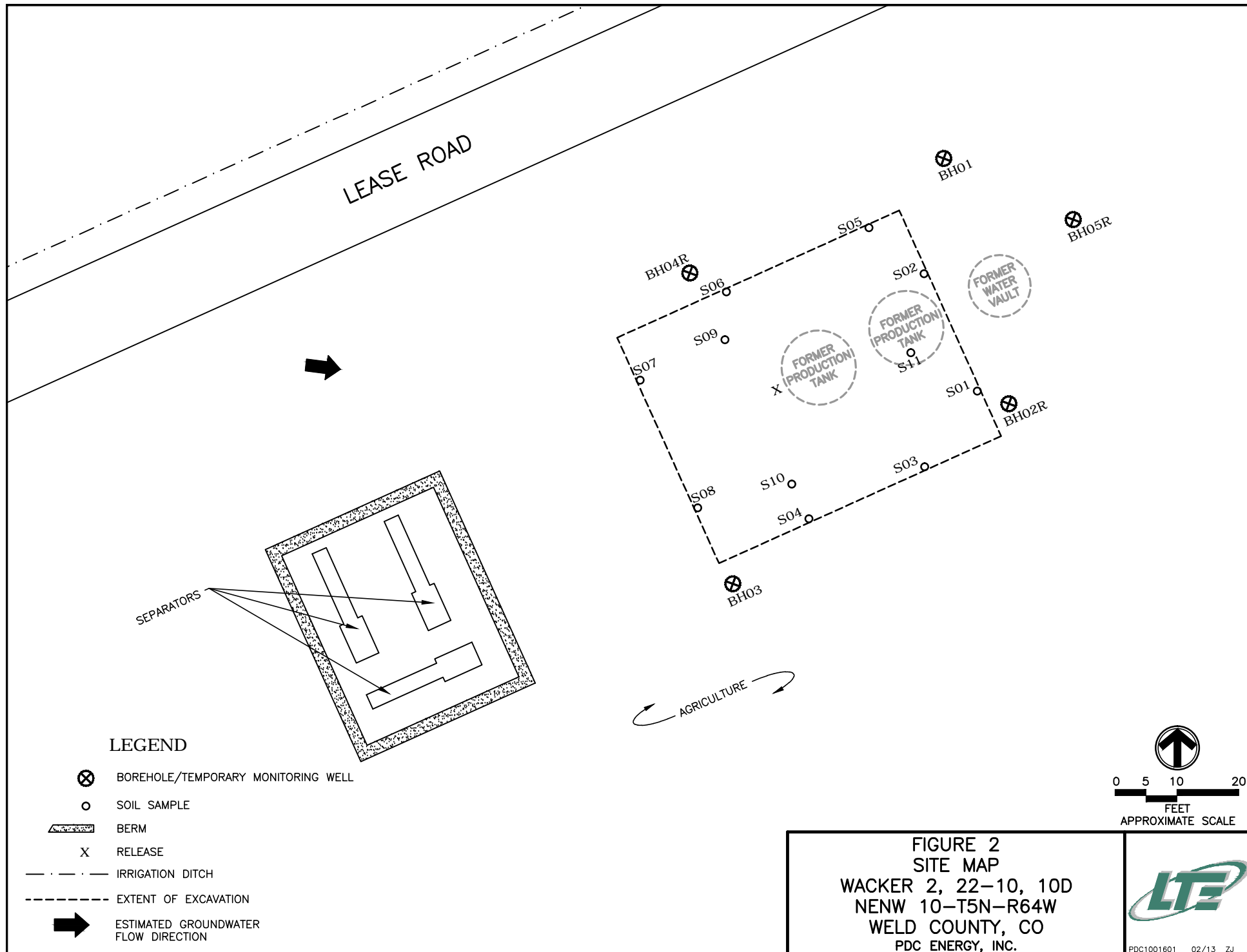
Table 1 – Soil Sample Analytical Results

Table 2 – Groundwater Analytical Results

Attachment – Laboratory Analytical Reports

FIGURES





TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 05-123-13596)
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	Standard	BH01	BH02	BH03	BH04
Depth (feet)		22	25	22.5	20
Sample Date		6/14/2010	6/14/2010	6/14/2010	6/14/2010

Organic Compounds

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.5	<0.5	<0.5	<0.5
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	<50.5
Benzene (mg/kg)	0.17	<0.005	<0.005	<0.005	<0.005
Toluene (mg/kg)	85	<0.005	<0.005	<0.005	<0.005
Ethylbenzene (mg/kg)	100	<0.005	<0.005	<0.005	<0.005
Xylenes, Total (mg/kg)	175	<0.015	<0.015	<0.015	<0.015
Acenaphthene (mg/kg)	1000	<0.33	NA	NA	NA
Anthracene (mg/kg)	1000	<0.33	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	<0.22	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	<0.22	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	<0.33	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	<0.062	NA	NA	NA
Chrysene (mg/kg)	22	<0.33	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.062	NA	NA	NA
Fluoranthene (mg/kg)	1000	<0.33	NA	NA	NA
Fluorene (mg/kg)	1000	<0.33	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.22	NA	NA	NA
Naphthalene (mg/kg)	23	<0.005	<0.005	<0.005	<0.005
Pyrene (mg/kg)	1000	<0.33	NA	NA	NA

Notes:

DRO - Diesel Range Organics

mmhos/cm - millimhos per centimeter

< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons (C6-C28)

TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 05-123-13596)
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	Standard	BH05	S01	S02	S03
Depth (feet)		20	19	19	19
Sample Date		6/14/2010	6/24/2010	6/24/2010	6/24/2010

Organic Compounds

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.5	<0.50	<0.50	<0.50
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	<50.5
Benzene (mg/kg)	0.17	<0.005	<0.0050	<0.0050	<0.0050
Toluene (mg/kg)	85	<0.005	<0.0050	<0.0050	<0.0050
Ethylbenzene (mg/kg)	100	<0.005	<0.0050	<0.0050	<0.0050
Xylenes, Total (mg/kg)	175	<0.015	<0.0050	<0.0050	<0.0050
Acenaphthene (mg/kg)	1000	NA	NA	NA	NA
Anthracene (mg/kg)	1000	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	NA	NA	NA
Chrysene (mg/kg)	22	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	NA	NA	NA
Fluoranthene (mg/kg)	1000	NA	NA	NA	NA
Fluorene (mg/kg)	1000	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	NA	NA	NA
Naphthalene (mg/kg)	23	<0.005	NA	NA	NA
Pyrene (mg/kg)	1000	NA	NA	NA	NA

Notes:

DRO - Diesel Range Organics

mmhos/cm - millimhos per centimeter

< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons (C6-C28)

TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 05-123-13596)
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	Standard	S04	S05	S06	S07
Depth (feet)		19	19	19	19
Sample Date		6/24/2010	6/24/2010	6/24/2010	6/24/2010

Organic Compounds

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.50	<0.50	<0.50	<0.50
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	<50.5
Benzene (mg/kg)	0.17	<0.0050	<0.0050	<0.0050	<0.0050
Toluene (mg/kg)	85	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene (mg/kg)	100	<0.0050	<0.0050	<0.0050	<0.0050
Xylenes, Total (mg/kg)	175	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthene (mg/kg)	1000	NA	NA	NA	NA
Anthracene (mg/kg)	1000	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	NA	NA	NA
Chrysene (mg/kg)	22	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	NA	NA	NA
Fluoranthene (mg/kg)	1000	NA	NA	NA	NA
Fluorene (mg/kg)	1000	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	NA	NA	NA
Naphthalene (mg/kg)	23	NA	NA	NA	NA
Pyrene (mg/kg)	1000	NA	NA	NA	NA

Notes:

DRO - Diesel Range Organics

mmhos/cm - millimhos per centimeter

< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons (C6-C28)

TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 05-123-13596)
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Parameter	Standard	S08	S09	S10	S11
Depth (feet)		19	20	20	20
Sample Date		6/24/2010	6/24/2010	6/24/2010	6/24/2010

Organic Compounds

TPH-DRO (mg/kg)		<50	<50	<50	<50
TPH-GRO (mg/kg)		<0.50	<0.50	<0.50	0.74
TPH-Total (mg/kg)	500	<50.5	<50.5	<50.5	0.74
Benzene (mg/kg)	0.17	<0.0050	<0.0050	<0.0050	0.026
Toluene (mg/kg)	85	<0.0050	<0.0050	<0.0050	0.0086
Ethylbenzene (mg/kg)	100	<0.0050	<0.0050	<0.0050	<0.0050
Xylenes, Total (mg/kg)	175	<0.0050	<0.0050	<0.0050	0.060
Acenaphthene (mg/kg)	1000	NA	NA	NA	NA
Anthracene (mg/kg)	1000	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	0.22	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	2.2	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.022	NA	NA	NA	NA
Chrysene (mg/kg)	22	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/kg)	0.022	NA	NA	NA	NA
Fluoranthene (mg/kg)	1000	NA	NA	NA	NA
Fluorene (mg/kg)	1000	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	NA	NA	NA	NA
Naphthalene (mg/kg)	23	NA	NA	NA	NA
Pyrene (mg/kg)	1000	NA	NA	NA	NA

Notes:

DRO - Diesel Range Organics

mmhos/cm - millimhos per centimeter

< - less than stated laboratory reporting limit

GRO - Gasoline Range Organics

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons (C6-C28)

TPH-Total - sum of TPH-GRO and TPH-DRO

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 2009.

Bold numbers indicate result equalled or exceeded standard.



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 05-123-13596)
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft btoc)
BH01	06/15/2010	620	1100	26	480	27.10
	03/31/2011	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2011	<1.0	<1.0	<1.0	<1.0	27.27
	09/23/2011	<1.0	<1.0	<1.0	<1.0	22.24
	12/08/2011	<1.0	<1.0	<1.0	<1.0	25.30
	03/29/2012	<1.0	<1.0	<1.0	<1.0	30.09
	06/22/2012	<1.0	<1.0	<1.0	<1.0	27.01
	09/20/2012	<1.0	<1.0	<1.0	<1.0	19.75
	12/20/2012	<1.0	<1.0	<1.0	<1.0	25.24
BH02	06/15/2010	1400	440	31	250	26.77
BH02R	04/29/2011	<1.0	1.3	<1.0	<1.0	26.32
	06/22/2011	<1.0	<1.0	<1.0	<1.0	26.33
	09/23/2011	<1.0	<1.0	<1.0	<1.0	19.44
	12/08/2011	<1.0	<1.0	<1.0	<1.0	22.65
	03/29/2012	<1.0	<1.0	<1.0	<1.0	27.45
	06/22/2012	<1.0	<1.0	<1.0	<1.0	24.43
	09/20/2012	<1.0	<1.0	<1.0	<1.0	19.61
	12/20/2012	<1.0	<1.0	<1.0	<1.0	25.23
BH03	06/15/2010	<1.0	<1.0	<1.0	<1.0	27.23
	03/31/2011	<1.0	<1.0	<1.0	<1.0	NM
	06/22/2011	<1.0	<1.0	<1.0	<1.0	27.11
	09/23/2011	<1.0	<1.0	<1.0	<1.0	21.97
	12/08/2011	42	<1.0	<1.0	<1.0	25.10
	03/29/2012	<1.0	<1.0	<1.0	<1.0	29.83
	06/22/2012	<1.0	<1.0	<1.0	<1.0	27.00
	09/20/2012	<1.0	<1.0	<1.0	<1.0	22.19
	12/20/2012	<1.0	<1.0	<1.0	<1.0	27.68
BH04	06/15/2010	200	220	7.2	430	27.79
BH04R	04/29/2011	Dry - Not Sampled				
	06/22/2011	Dry - Not Sampled				
	08/18/2011	9.2	3.7	36	2.7	21.50
	09/23/2011	36	<1.0	68	730	19.29
	12/08/2011	<1.0	<1.0	5.7	22	22.33
	03/29/2012	<1.0	<1.0	<1.0	<1.0	27.12
	06/22/2012	<1.0	<1.0	7.8	26	23.80
	09/20/2012	<1.0	<1.0	<1.0	<1.0	20.05
	12/20/2012	Damaged - Not Sampled				
BH05	06/15/2010	19	<1.0	<1.0	<1.0	26.21
BH05R	04/29/2011	<1.0	<1.0	<1.0	<1.0	26.40
	06/22/2011	<1.0	<1.0	<1.0	<1.0	26.36
	09/23/2011	<1.0	<1.0	<1.0	<1.0	19.60
	12/08/2011	<1.0	<1.0	<1.0	<1.0	22.75
	03/29/2012	<1.0	<1.0	<1.0	<1.0	27.54
	06/22/2012	<1.0	<1.0	<1.0	<1.0	24.47
	09/20/2012	<1.0	<1.0	<1.0	<1.0	19.74



TABLE 2 (Continued)
GROUNDWATER ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 05-123-13596)
WELD COUNTY, COLORADO
PDC ENERGY, INC.

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft btoc)
BH05R	12/20/2012	<1.0	<1.0	<1.0	<1.0	25.29
Basic Standards for Groundwater:		5	560	700	1400	

Notes:

API - American Petroleum Institute

NA - not analyzed/not available

ug/L - micrograms per Liter

ft btoc - feet below top of casing

NM - not measured

< - less than stated laboratory reporting limit

Basic Standards for Ground Water are from the Colorado Department of Health and Environment -

Water Quality Control Commission Regulation 41, effective 4/1/2009.

Bold indicates result equaled or exceeded standard.



ATTACHMENT
LABORATORY ANALYTICAL REPORTS



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 24, 2010

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/15/10 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 '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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01@22'	R006086-01	Soil	06/14/10 09:50	06/15/10 17:00
BH02@25'	R006086-02	Soil	06/14/10 11:15	06/15/10 17:00
BH03@22.5'	R006086-03	Soil	06/14/10 13:35	06/15/10 17:00
BH04@20'	R006086-04	Soil	06/14/10 15:00	06/15/10 17:00
BH05@20'	R006086-05	Soil	06/14/10 16:50	06/15/10 17:00
BH01	R006086-06	Water	06/15/10 12:00	06/15/10 17:00
BH02	R006086-07	Water	06/15/10 13:25	06/15/10 17:00
BH03	R006086-08	Water	06/15/10 14:00	06/15/10 17:00
BH04	R006086-09	Water	06/15/10 14:35	06/15/10 17:00
BH05	R006086-10	Water	06/15/10 12:40	06/15/10 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

Summit Scientific
S₂ 2006086

741 Corporate Circle Suite 1 • 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
Project Manager: Brian Dodek
E-Mail: bdodek@ltenv.com
Project Name: Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Sampler Name: Devin Girvin

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	GBTEX	BTEX	Table 9.10 Full		Table 9.10 Short	PH / EC	SAR Naphthalene
BH01 - 22'	6-14-10	0950	1			X				X								X	
BH02 - 25'		1115	1																
BH03 - 22.5'		1335	1																
BH04 - 20'		1500	1																
BH05 - 20'		1650	1																
BH01	6-15-10	1200	3	X															
BH02		1325	1																
BH03		1400	1																
BH04		1435	1																
BH05		1240	1																
Relinquished by: Devin Girvin	Date/Time: 6-15-10			Received by: [Signature]				Date/Time: 6-15-10 1700		Turn Around Time (Check): Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Standard <input type="checkbox"/>						Notes:			
Relinquished by:	Date/Time:			Received by:				Date/Time:		Sample Integrity: Temperature Upon Receipt: 5.3 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
Relinquished by:	Date/Time:			Received in Lab by:				Date/Time:											

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH01@22'
R006086-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.3 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.9 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	79.6-120		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH01@22'
R006086-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270C

Acenaphthene	ND	330	ug/kg	1	0062101	06/21/10	06/23/10	EPA 8270D
Acenaphthylene	ND	330	"	"	"	"	"	"
Anthracene	ND	330	"	"	"	"	"	"
Benzo (a) anthracene	ND	220	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	220	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	330	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"
Benzo (a) pyrene	ND	62	"	"	"	"	"	"
Chrysene	ND	330	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	62	"	"	"	"	"	"
Fluoranthene	ND	330	"	"	"	"	"	"
Fluorene	ND	330	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	220	"	"	"	"	"	"
Naphthalene	ND	330	"	"	"	"	"	"
Phenanthrene	ND	330	"	"	"	"	"	"
Pyrene	ND	330	"	"	"	"	"	"

Date Sampled: **06/14/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		25.4 %	20-121		"	"	"	"	
Surrogate: Phenol-d6		25.9 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		51.7 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		57.3 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		13.6 %	20-85.7		"	"	"	"	
Surrogate: Terphenyl-d14		140 %	20-137		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH02@25'
R006086-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		90.6 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH03@22.5'
R006086-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.2 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH04@20'
R006086-04 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.4 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH05@20'
R006086-05 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0061606	06/16/10	06/16/10	8015 DRO	

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		89.7 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	5.0	ug/kg	1	0061607	06/16/10	06/16/10	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **06/14/10 16:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH01
R006086-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/15/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	620	10	ug/l	10	0061605	06/16/10	06/17/10	EPA 8260B	
Toluene	1100	10	"	"	"	"	"	"	
Ethylbenzene	26	1.0	"	1	"	"	"	"	
Xylenes (total)	480	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.3 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.6 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH02
R006086-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/15/10 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	1400	10		ug/l	10	0061605	06/16/10	06/17/10	EPA 8260B	
Toluene	440	10		"	"	"	"	"	"	
Ethylbenzene	31	1.0		"	1	"	"	"	"	
Xylenes (total)	250	1.0		"	"	"	"	"	"	

Date Sampled: **06/15/10 13:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		70.4-127		"	"	"	"	
Surrogate: Toluene-d8		110 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH03
R006086-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/15/10 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	0061605	06/16/10	06/17/10	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/15/10 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.4 %		70.4-127		"	"	"	"	
Surrogate: Toluene-d8		91.4 %		85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH04
R006086-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/15/10 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	200	1.0	ug/l	1	0061605	06/16/10	06/17/10	EPA 8260B	
Toluene	220	1.0	"	"	"	"	"	"	
Ethylbenzene	7.2	1.0	"	"	"	"	"	"	
Xylenes (total)	430	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.4 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH05
R006086-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/15/10 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	19	1.0	ug/l	1	0061605	06/16/10	06/17/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/15/10 12:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		105 %	70.4-127		"	"	"	"	
Surrogate: Toluene-d8		100 %	85.7-111		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

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 0061606 - EPA 3550A

Blank (0061606-BLK1)

Prepared & Analyzed: 06/16/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 11.9 " 12.5 95.6 88.8-124

LCS (0061606-BS1)

Prepared & Analyzed: 06/16/10

C10-C28 (DRO) 466 50 mg/kg 500 93.2 81.4-129 9.26

LCS Dup (0061606-BSD1)

Prepared & Analyzed: 06/16/10

C10-C28 (DRO) 498 50 mg/kg 500 99.7 81.4-129 6.73 9.26

Matrix Spike (0061606-MS1)

Source: R006086-02

Prepared & Analyzed: 06/16/10

C10-C28 (DRO) 462 50 mg/kg 500 14.1 89.5 77.8-133 8.48

Matrix Spike Dup (0061606-MSD1)

Source: R006086-02

Prepared & Analyzed: 06/16/10

C10-C28 (DRO) 473 50 mg/kg 500 14.1 91.8 77.8-133 2.48 8.48

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

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 0061605 - EPA 5030 Water MS

Blank (0061605-BLK1)

Prepared & Analyzed: 06/16/10

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.7	70.4-127			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	85.7-111			
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	83.9-116			

LCS (0061605-BS1)

Prepared & Analyzed: 06/16/10

Benzene	32.2	1.0	ug/l	33.3		96.7	64.2-127		10.9	
Toluene	32.1	1.0	"	33.3		96.2	66.4-125		11.3	
Ethylbenzene	31.6	1.0	"	33.3		94.9	70-130		20	
m,p-Xylene	60.5	2.0	"	66.7		90.7	70-130		20	
o-Xylene	26.5	1.0	"	33.3		79.4	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	70.4-127			
Surrogate: Toluene-d8	14.0		"	13.3		105	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		102	83.9-116			

LCS Dup (0061605-BSD1)

Prepared & Analyzed: 06/16/10

Benzene	32.7	1.0	ug/l	33.3		98.2	64.2-127	1.51	10.9	
Toluene	32.6	1.0	"	33.3		97.7	66.4-125	1.58	11.3	
Ethylbenzene	31.8	1.0	"	33.3		95.3	70-130	0.505	20	
m,p-Xylene	60.9	2.0	"	66.7		91.4	70-130	0.692	20	
o-Xylene	27.2	1.0	"	33.3		81.6	70-130	2.68	20	
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	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			

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

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 0061605 - EPA 5030 Water MS

Matrix Spike (0061605-MS1)				Source: R006078-01		Prepared & Analyzed: 06/16/10				
Benzene	30.3	1.0	ug/l	33.3	ND	90.8	57.4-127		19.3	
Toluene	30.3	1.0	"	33.3	ND	90.8	60.1-123		18.7	
Ethylbenzene	29.7	1.0	"	33.3	ND	89.2	70-130		20	
m,p-Xylene	56.9	2.0	"	66.7	ND	85.4	70-130		20	
o-Xylene	25.6	1.0	"	33.3	ND	76.8	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	70.4-127			
Surrogate: Toluene-d8	13.9		"	13.3		104	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	83.9-116			

Matrix Spike Dup (0061605-MSD1)				Source: R006078-01		Prepared & Analyzed: 06/16/10				
Benzene	32.0	1.0	ug/l	33.3	ND	96.1	57.4-127	5.68	19.3	
Toluene	32.1	1.0	"	33.3	ND	96.2	60.1-123	5.81	18.7	
Ethylbenzene	30.5	1.0	"	33.3	ND	91.4	70-130	2.43	20	
m,p-Xylene	59.3	2.0	"	66.7	ND	88.9	70-130	4.05	20	
o-Xylene	26.0	1.0	"	33.3	ND	78.1	70-130	1.67	20	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		107	70.4-127			
Surrogate: Toluene-d8	14.4		"	13.3		108	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	83.9-116			

Batch 0061607 - EPA 5030 Soil MS

Blank (0061607-BLK1)				Prepared & Analyzed: 06/16/10						
Naphthalene	ND	5.0	ug/kg							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
Surrogate: 1,2-Dichloroethane-d4	46.1		"	40.0		115	74-135			
Surrogate: Toluene-d8	39.3		"	40.0		98.2	84.3-112			
Surrogate: 4-Bromofluorobenzene	41.0		"	40.0		103	79.6-120			

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

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 0061607 - EPA 5030 Soil MS

LCS (0061607-BS1)

Prepared & Analyzed: 06/16/10

Naphthalene	ND	5.0	ug/kg				70-130		20	
Benzene	116	5.0	"	100		116	70.2-125		11.1	
Toluene	113	5.0	"	100		113	74-123		10.9	
Ethylbenzene	123	5.0	"	100		123	70-130		20	
m,p-Xylene	213	10	"	200		107	70-130		20	
o-Xylene	112	5.0	"	100		112	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	46.4		"	40.0		116	74-135			
Surrogate: Toluene-d8	40.5		"	40.0		101	84.3-112			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.4	79.6-120			

LCS Dup (0061607-BSD1)

Prepared & Analyzed: 06/16/10

Naphthalene	ND	5.0	ug/kg				70-130		20	
Benzene	122	5.0	"	100		122	70.2-125	4.41	11.1	
Toluene	118	5.0	"	100		118	74-123	3.95	10.9	
Ethylbenzene	120	5.0	"	100		120	70-130	2.61	20	
m,p-Xylene	205	10	"	200		102	70-130	4.09	20	
o-Xylene	112	5.0	"	100		112	70-130	0.428	20	
Surrogate: 1,2-Dichloroethane-d4	47.6		"	40.0		119	74-135			
Surrogate: Toluene-d8	40.5		"	40.0		101	84.3-112			
Surrogate: 4-Bromofluorobenzene	39.9		"	40.0		99.8	79.6-120			

Matrix Spike (0061607-MS1)

Source: R006086-02

Prepared & Analyzed: 06/16/10

Naphthalene	ND	5.0	ug/kg		0.00		70-130		20	
Benzene	109	5.0	"	100	0.00	109	67.1-125		17.9	
Toluene	103	5.0	"	100	0.00	103	68.6-124		11.9	
Ethylbenzene	110	5.0	"	100	0.00	110	70-130		20	
m,p-Xylene	191	10	"	200	0.00	95.4	70-130		20	
o-Xylene	101	5.0	"	100	0.00	101	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	49.7		"	40.0		124	74-135			
Surrogate: Toluene-d8	40.3		"	40.0		101	84.3-112			
Surrogate: 4-Bromofluorobenzene	40.6		"	40.0		101	79.6-120			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

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 0061607 - EPA 5030 Soil MS

Matrix Spike Dup (0061607-MSD1)		Source: R006086-02			Prepared & Analyzed: 06/16/10					
Naphthalene	ND	5.0	ug/kg		0.00		70-130		20	
Benzene	110	5.0	"	100	0.00	110	67.1-125	0.852	17.9	
Toluene	104	5.0	"	100	0.00	104	68.6-124	0.867	11.9	
Ethylbenzene	115	5.0	"	100	0.00	115	70-130	3.91	20	
m,p-Xylene	198	10	"	200	0.00	98.9	70-130	3.63	20	
o-Xylene	105	5.0	"	100	0.00	105	70-130	4.66	20	
Surrogate: 1,2-Dichloroethane-d4	45.8		"	40.0		115	74-135			
Surrogate: Toluene-d8	40.1		"	40.0		100	84.3-112			
Surrogate: 4-Bromofluorobenzene	39.3		"	40.0		98.3	79.6-120			

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Summit Scientific

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

Batch 0062101 - EPA 3550A

Blank (0062101-BLK1)

Prepared: 06/21/10 Analyzed: 06/23/10

Acenaphthene	ND	330	ug/kg							
Acenaphthylene	ND	330	"							
Anthracene	ND	330	"							
Benzo (a) anthracene	ND	220	"							
Benzo (b) fluoranthene	ND	220	"							
Benzo (k) fluoranthene	ND	330	"							
Benzo (g,h,i) perylene	ND	330	"							
Benzo (a) pyrene	ND	62	"							
Chrysene	ND	330	"							
Dibenz (a,h) anthracene	ND	62	"							
Fluoranthene	ND	330	"							
Fluorene	ND	330	"							
Indeno (1,2,3-cd) pyrene	ND	220	"							
Naphthalene	ND	330	"							
Phenanthrene	ND	330	"							
Pyrene	ND	330	"							
Surrogate: 2-Fluorophenol	879		"	3330		26.4	20-121			
Surrogate: Phenol-d6	963		"	3330		28.9	24-113			
Surrogate: Nitrobenzene-d5	1700		"	3330		51.0	23-120			
Surrogate: 2-Fluorobiphenyl	1840		"	3330		55.2	30-115			
Surrogate: 2,4,6-Tribromophenol	1020		"	6670		15.3	20-85.7			
Surrogate: Terphenyl-d14	7480		"	6670		112	20-137			

LCS (0062101-BS1)

Prepared: 06/21/10 Analyzed: 06/23/10

Acenaphthene	1930	330	ug/kg	3330	57.8	30-120	30
Acenaphthylene	979	330	"	3330	29.4	30-120	30
Anthracene	1210	330	"	3330	36.4	30-120	30
Benzo (a) anthracene	3500	220	"	3330	105	30-120	30
Benzo (b) fluoranthene	3110	220	"	3330	93.4	30-120	30
Benzo (k) fluoranthene	4600	330	"	3330	138	30-120	30
Benzo (g,h,i) perylene	2430	330	"	3330	72.8	30-120	30
Benzo (a) pyrene	4160	62	"	3330	125	30-120	30
Chrysene	3450	330	"	3330	103	30-120	30
Dibenz (a,h) anthracene	2830	62	"	3330	85.0	30-120	30
Fluoranthene	1330	330	"	3330	40.0	30-120	30
Fluorene	1090	330	"	3330	32.8	30-120	30
Indeno (1,2,3-cd) pyrene	2190	220	"	3330	65.6	30-120	30
Naphthalene	842	330	"	3330	25.2	30-120	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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Summit Scientific

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

Batch 0062101 - EPA 3550A

LCS (0062101-BS1)

Prepared: 06/21/10 Analyzed: 06/23/10

Phenanthrene	1140	330	ug/kg	3330		34.4	30-120		30	
Pyrene	7120	330	"	3330		214	30-120		30	
Surrogate: 2-Fluorophenol	822		"	3330		24.7	20-121			
Surrogate: Phenol-d6	920		"	3330		27.6	24-113			
Surrogate: Nitrobenzene-d5	1740		"	3330		52.2	23-120			
Surrogate: 2-Fluorobiphenyl	1910		"	3330		57.4	30-115			
Surrogate: 2,4,6-Tribromophenol	1170		"	6670		17.5	20-85.7			
Surrogate: Terphenyl-d14	7390		"	6670		111	20-137			

Matrix Spike (0062101-MS1)

Source: R006091-04

Prepared: 06/21/10 Analyzed: 06/23/10

Acenaphthene	2010	330	ug/kg	3330	ND	60.3	30-120		30	
Acenaphthylene	1030	330	"	3330	ND	31.0	30-120		30	
Anthracene	1240	330	"	3330	ND	37.1	30-120		30	
Benzo (a) anthracene	3680	220	"	3330	ND	110	30-120		30	
Benzo (b) fluoranthene	3180	220	"	3330	ND	95.6	30-120		30	
Benzo (k) fluoranthene	4140	330	"	3330	ND	124	30-120		30	
Benzo (g,h,i) perylene	3530	330	"	3330	ND	106	30-120		30	
Benzo (a) pyrene	4030	62	"	3330	ND	121	30-120		30	
Chrysene	3530	330	"	3330	ND	106	30-120		30	
Dibenz (a,h) anthracene	3760	62	"	3330	ND	113	30-120		30	
Fluoranthene	1400	330	"	3330	ND	42.1	30-120		30	
Fluorene	1130	330	"	3330	ND	34.0	30-120		30	
Indeno (1,2,3-cd) pyrene	3230	220	"	3330	ND	96.8	30-120		30	
Naphthalene	855	330	"	3330	ND	25.7	30-120		30	
Phenanthrene	1170	330	"	3330	ND	35.1	30-120		30	
Pyrene	6810	330	"	3330	ND	204	30-120		30	
Surrogate: 2-Fluorophenol	814		"	3330		24.4	20-121			
Surrogate: Phenol-d6	980		"	3330		29.4	24-113			
Surrogate: Nitrobenzene-d5	1800		"	3330		54.1	23-120			
Surrogate: 2-Fluorobiphenyl	1970		"	3330		59.2	30-115			
Surrogate: 2,4,6-Tribromophenol	1140		"	6670		17.0	20-85.7			
Surrogate: Terphenyl-d14	7170		"	6670		107	20-137			

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Summit Scientific

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

Batch 0062101 - EPA 3550A

Matrix Spike Dup (0062101-MSD1)		Source: R006091-04			Prepared: 06/21/10		Analyzed: 06/23/10			
Acenaphthene	1990	330	ug/kg	3330	ND	59.7	30-120	1.12	30	
Acenaphthylene	1040	330	"	3330	ND	31.1	30-120	0.451	30	
Anthracene	1220	330	"	3330	ND	36.5	30-120	1.60	30	
Benzo (a) anthracene	3580	220	"	3330	ND	107	30-120	2.77	30	
Benzo (b) fluoranthene	3320	220	"	3330	ND	99.5	30-120	4.04	30	
Benzo (k) fluoranthene	4210	330	"	3330	ND	126	30-120	1.62	30	
Benzo (g,h,i) perylene	2460	330	"	3330	ND	73.8	30-120	35.7	30	
Benzo (a) pyrene	3960	62	"	3330	ND	119	30-120	1.68	30	
Chrysene	3440	330	"	3330	ND	103	30-120	2.45	30	
Dibenz (a,h) anthracene	3010	62	"	3330	ND	90.4	30-120	22.0	30	
Fluoranthene	1380	330	"	3330	ND	41.3	30-120	1.75	30	
Fluorene	1130	330	"	3330	ND	33.9	30-120	0.206	30	
Indeno (1,2,3-cd) pyrene	2520	220	"	3330	ND	75.7	30-120	24.5	30	
Naphthalene	834	330	"	3330	ND	25.0	30-120	2.49	30	
Phenanthrene	1160	330	"	3330	ND	34.9	30-120	0.657	30	
Pyrene	6750	330	"	3330	ND	202	30-120	0.895	30	
Surrogate: 2-Fluorophenol	801		"	3330		24.0	20-121			
Surrogate: Phenol-d6	968		"	3330		29.0	24-113			
Surrogate: Nitrobenzene-d5	1780		"	3330		53.3	23-120			
Surrogate: 2-Fluorobiphenyl	1980		"	3330		59.5	30-115			
Surrogate: 2,4,6-Tribromophenol	1170		"	6670		17.5	20-85.7			
Surrogate: Terphenyl-d14	7210		"	6670		108	20-137			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

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

June 27, 2010

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/24/10 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 'PS' followed by a long horizontal stroke.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S01	R006142-01	Soil	06/24/10 00:00	06/24/10 17:00
S02	R006142-02	Soil	06/24/10 00:00	06/24/10 17:00
S03	R006142-03	Soil	06/24/10 00:00	06/24/10 17:00
S04	R006142-04	Soil	06/24/10 00:00	06/24/10 17:00
S05	R006142-05	Soil	06/24/10 00:00	06/24/10 17:00
S06	R006142-06	Soil	06/24/10 00:00	06/24/10 17:00
S07	R006142-07	Soil	06/24/10 00:00	06/24/10 17:00
S08	R006142-08	Soil	06/24/10 00:00	06/24/10 17:00
S09	R006142-09	Soil	06/24/10 00:00	06/24/10 17:00
S10	R006142-10	Soil	06/24/10 00:00	06/24/10 17:00
S11	R006142-11	Soil	06/24/10 00:00	06/24/10 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

Summit Scientific S₂ 2004112.1

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-277-9531 Fax

Page 1 of 2

Client: LT Environmental, Inc.
Address: 4600 West 60th Avenue
City/State/Zip: Arvada, CO 80003
Phone: (303) 433-9788
Fax: (303) 433-1432
Project Manager: Brian Dodek
E-Mail: bdodek@ltenv.com
Project Name: Wacker 2, 10D, 22-10
Project Number: PDC 10016.05
Sampler Name: Burkholder

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative					Matrix				Analyze For:					Special Instructions	Notes
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO/GRO	GBTEX	BTEX	Table 9.10 Full	Table 9.10 Short	PH / EC		
S01	6/24/10		1																
S02																			
S03																			
S04																			
S05																			
S06																			
S07																			
S08																			
S09																			
S10																			
Relinquished by:	Date/Time:	Received by: 6/27/10 10:10												Turn Around Time (Check)		Notes:			
														Same Day					
														24 Hours					
														48 Hours					
Relinquished by:	Date/Time:	Received by:												Sample Integrity:		Temperature Upon Receipt: 54			
														Intact: Yes No					
Relinquished by:	Date/Time:	Received in Lab by:																	

www.e2scientific.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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

Summit Scientific 2006.141.2-

741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page 2 of 2

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name: DRY WOOD

Project Manager: Brian Dodek

F-Mail: bdodek@itenv.com

Project Name: New York 2. 22-10 105

Project Number: DDC-10-10-A-K

[illegible]

www.ajph.org

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S01
R006142-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.3 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.6 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S02
R006142-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S03
R006142-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		107 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S04
R006142-04 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		105 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S05
R006142-05 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		115 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S06
R006142-06 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/25/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S07
R006142-07 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.7 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S08
R006142-08 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S09
R006142-09 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S10
R006142-10 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.7 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.9 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		93.1 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S11
R006142-11 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0062502	06/25/10	06/25/10	8015 DRO	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.026	0.0050	mg/kg	1	0062503	06/25/10	06/26/10	EPA 8260B	
Toluene	0.0086	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.060	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.74	0.50	"	"	"	"	"	"	

Date Sampled: **06/24/10 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	79.6-120		"	"	"	"	

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

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 0062502 - EPA 3550A

Blank (0062502-BLK1)

Prepared & Analyzed: 06/25/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 11.9 " 12.5 95.5 88.8-124

LCS (0062502-BS1)

Prepared & Analyzed: 06/25/10

C10-C28 (DRO) 441 50 mg/kg 500 88.2 81.4-129 9.26

LCS Dup (0062502-BSD1)

Prepared & Analyzed: 06/25/10

C10-C28 (DRO) 443 50 mg/kg 500 88.7 81.4-129 0.539 9.26

Matrix Spike (0062502-MS1)

Source: R006142-01

Prepared & Analyzed: 06/25/10

C10-C28 (DRO) 461 50 mg/kg 500 ND 92.3 77.8-133 8.48

Matrix Spike Dup (0062502-MSD1)

Source: R006142-01

Prepared & Analyzed: 06/25/10

C10-C28 (DRO) 457 50 mg/kg 500 ND 91.3 77.8-133 1.06 8.48

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

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 0062503 - EPA 5030 Soil MS

Blank (0062503-BLK1)

Prepared & Analyzed: 06/25/10

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	0.0394		"	0.0400	98.4	74-135				
Surrogate: Toluene-d8	0.0386		"	0.0400	96.5	84.3-112				
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400	105	79.6-120				

LCS (0062503-BS1)

Prepared & Analyzed: 06/25/10

Benzene	0.0789	0.0050	mg/kg	0.100	78.9	70.2-125		11.1		
Toluene	0.0774	0.0050	"	0.100	77.4	74-123		10.9		
Ethylbenzene	0.0830	0.0050	"	0.100	83.0	70-130		20		
m,p-Xylene	0.152	0.010	"	0.200	76.0	70-130		20		
o-Xylene	0.0772	0.0050	"	0.100	77.2	70-130		20		
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400	106	74-135				
Surrogate: Toluene-d8	0.0400		"	0.0400	100	84.3-112				
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400	97.0	79.6-120				

LCS Dup (0062503-BSD1)

Prepared & Analyzed: 06/25/10

Benzene	0.0808	0.0050	mg/kg	0.100	80.8	70.2-125	2.40	11.1		
Toluene	0.0797	0.0050	"	0.100	79.7	74-123	2.94	10.9		
Ethylbenzene	0.0856	0.0050	"	0.100	85.6	70-130	3.13	20		
m,p-Xylene	0.157	0.010	"	0.200	78.6	70-130	3.36	20		
o-Xylene	0.0795	0.0050	"	0.100	79.5	70-130	2.91	20		
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400	108	74-135				
Surrogate: Toluene-d8	0.0403		"	0.0400	101	84.3-112				
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400	98.4	79.6-120				

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

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 0062503 - EPA 5030 Soil MS

Matrix Spike (0062503-MS1)		Source: R006142-01			Prepared & Analyzed: 06/25/10					
Benzene	0.0874	0.0050	mg/kg	0.100	ND	87.4	67.1-125		17.9	
Toluene	0.0863	0.0050	"	0.100	ND	86.3	68.6-124		11.9	
Ethylbenzene	0.0924	0.0050	"	0.100	ND	92.4	70-130		20	
m,p-Xylene	0.167	0.010	"	0.200	ND	83.6	70-130		20	
o-Xylene	0.0847	0.0050	"	0.100	ND	84.7	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		105	74-135			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	79.6-120			

Matrix Spike Dup (0062503-MSD1)		Source: R006142-01			Prepared & Analyzed: 06/25/10					
Benzene	0.0914	0.0050	mg/kg	0.100	ND	91.4	67.1-125	4.43	17.9	
Toluene	0.0890	0.0050	"	0.100	ND	89.0	68.6-124	3.15	11.9	
Ethylbenzene	0.0957	0.0050	"	0.100	ND	95.7	70-130	3.51	20	
m,p-Xylene	0.173	0.010	"	0.200	ND	86.6	70-130	3.51	20	
o-Xylene	0.0883	0.0050	"	0.100	ND	88.3	70-130	4.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.0426		"	0.0400		107	74-135			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	79.6-120			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

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

April 04, 2011

Aimee Cole

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 10D, 2D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 03/31/11 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

David Shrewsbury For Ben Shrewsbury

President / Laboratory Director



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R104002-01	Water	03/31/11 12:20	03/31/11 16:45
BH03	R104002-02	Water	03/31/11 12:15	03/31/11 16:45

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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

R104002

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

Project Manager:
Brian Dodek

E-Mail: bbodek@itemv.com

Project Name: Wacker 10713D 22-10

Project Number: ~~00000000~~ PSC 10016

Sampler Name: Flora

12

[illegible]

www.s2scientific.com



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

BH01
R104002-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1040107	04/01/11	04/03/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/31/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	80.8-120		"	"	"	"	



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

BH03
R104002-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/31/11 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1040107	04/01/11	04/03/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/31/11 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		109 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %		80.8-120		"	"	"	"	



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

Project: PDC - Wacker 10D, 2D, 22-10

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

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 1040107 - EPA 5030 Water MS

Blank (1040107-BLK1)

Prepared: 04/01/11 Analyzed: 04/03/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3		97.2	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	80.8-120			

LCS (1040107-BS1)

Prepared: 04/01/11 Analyzed: 04/03/11

Benzene	28.5	1.0	ug/l	33.3		85.5	60.1-131		10.9	
Toluene	32.2	1.0	"	33.3		96.8	65.9-127		11.3	
Ethylbenzene	35.1	1.0	"	33.3		105	65.1-129		20	
m,p-Xylene	74.4	2.0	"	66.7		112	66.8-127		20	
o-Xylene	35.4	1.0	"	33.3		106	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		110	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.7	80.8-120			

LCS Dup (1040107-BSD1)

Prepared: 04/01/11 Analyzed: 04/03/11

Benzene	28.1	1.0	ug/l	33.3		84.4	60.1-131	1.31	10.9	
Toluene	32.4	1.0	"	33.3		97.1	65.9-127	0.371	11.3	
Ethylbenzene	34.8	1.0	"	33.3		104	65.1-129	0.886	20	
m,p-Xylene	73.1	2.0	"	66.7		110	66.8-127	1.65	20	
o-Xylene	34.9	1.0	"	33.3		105	61.2-120	1.54	20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.4	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 - Wacker 10D, 2D, 22-10

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

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 1040107 - EPA 5030 Water MS

Matrix Spike (1040107-MS1)				Source: R103177-01		Prepared: 04/01/11		Analyzed: 04/03/11		
Benzene	30.8	1.0	ug/l	33.3	ND	92.4	52.7-130		19.3	
Toluene	35.2	1.0	"	33.3	ND	106	57-127		18.7	
Ethylbenzene	38.2	1.0	"	33.3	ND	115	59.2-127		20	
m,p-Xylene	80.3	2.0	"	66.7	1.04	119	53.2-132		20	
o-Xylene	38.6	1.0	"	33.3	ND	116	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3		97.7	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.0	80.8-120			
Matrix Spike Dup (1040107-MSD1)				Source: R103177-01		Prepared: 04/01/11		Analyzed: 04/03/11		
Benzene	31.9	1.0	ug/l	33.3	ND	95.7	52.7-130	3.51	19.3	
Toluene	35.7	1.0	"	33.3	ND	107	57-127	1.35	18.7	
Ethylbenzene	38.9	1.0	"	33.3	ND	117	59.2-127	1.71	20	
m,p-Xylene	81.6	2.0	"	66.7	1.04	121	53.2-132	1.52	20	
o-Xylene	39.2	1.0	"	33.3	ND	118	56.3-117	1.59	20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.4	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.1	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 - Wacker 10D, 2D, 22-10

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 30, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 04/29/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH05R	R104177-01	Water	04/29/11 13:00	04/29/11 17:00
BH02R	R104177-02	Water	04/29/11 13:20	04/29/11 17:00

Summit Scientific

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

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

R104177

Summit Scientific

741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc. Project Manager: Brian Dodek
Address: 4600 West 60th Avenue E-Mail: bdodek@ltenv.com
City/State/Zip: Arvada, CO 80003
Phone: (303) 433-9788 Project Name: WYCKE 2, 3, 10, 100
Fax: (303) 433-1432 Project Number:
Sampler Name: 3004

[illegible]

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

BH05R
R104177-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/29/11 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1050401	05/04/11	05/06/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/29/11 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

BH02R
R104177-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/29/11 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1050401	05/04/11	05/06/11	EPA 8260B	
Toluene	1.3	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/29/11 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1050401 - EPA 5030 Water MS

Blank (1050401-BLK1)

Prepared & Analyzed: 05/04/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3	103	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	99.0	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3	96.6	80.8-120				

LCS (1050401-BS1)

Prepared & Analyzed: 05/04/11

Benzene	34.9	1.0	ug/l	33.3	105	60.1-131			10.9	
Toluene	33.0	1.0	"	33.3	99.1	65.9-127			11.3	
Ethylbenzene	35.2	1.0	"	33.3	106	65.1-129			20	
m,p-Xylene	68.2	2.0	"	66.7	102	66.8-127			20	
o-Xylene	33.3	1.0	"	33.3	99.9	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3	106	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	99.3	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.1	80.8-120				

LCS Dup (1050401-BSD1)

Prepared & Analyzed: 05/04/11

Benzene	35.1	1.0	ug/l	33.3	105	60.1-131	0.485		10.9	
Toluene	33.2	1.0	"	33.3	99.7	65.9-127	0.604		11.3	
Ethylbenzene	34.7	1.0	"	33.3	104	65.1-129	1.40		20	
m,p-Xylene	68.1	2.0	"	66.7	102	66.8-127	0.103		20	
o-Xylene	33.7	1.0	"	33.3	101	61.2-120	1.16		20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3	109	57.9-139				
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.5	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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

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 1050401 - EPA 5030 Water MS

Matrix Spike (1050401-MS1)				Source: R104175-01		Prepared & Analyzed: 05/04/11				
Benzene	34.5	1.0	ug/l	33.3	1.09	100	52.7-130		19.3	
Toluene	35.0	1.0	"	33.3	2.39	98.0	57-127		18.7	
Ethylbenzene	43.2	1.0	"	33.3	9.93	99.7	59.2-127		20	
m,p-Xylene	77.2	2.0	"	66.7	11.5	98.6	53.2-132		20	
o-Xylene	81.6	1.0	"	33.3	46.6	105	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	57.9-139			
Surrogate: Toluene-d8	13.6		"	13.3		102	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	80.8-120			
Matrix Spike Dup (1050401-MSD1)				Source: R104175-01		Prepared & Analyzed: 05/04/11				
Benzene	34.1	1.0	ug/l	33.3	1.09	99.0	52.7-130	1.20	19.3	
Toluene	34.6	1.0	"	33.3	2.39	96.7	57-127	1.26	18.7	
Ethylbenzene	43.3	1.0	"	33.3	9.93	100	59.2-127	0.370	20	
m,p-Xylene	78.5	2.0	"	66.7	11.5	101	53.2-132	1.66	20	
o-Xylene	80.6	1.0	"	33.3	46.6	102	56.3-117	1.24	20	
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	57.9-139			
Surrogate: Toluene-d8	13.3		"	13.3		99.6	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

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 'MSM'.

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

June 30, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/22/11 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R106147-01	Water	06/22/11 10:00	06/22/11 16:50
BH03	R106147-02	Water	06/22/11 10:20	06/22/11 16:50
BH02R	R106147-03	Water	06/22/11 10:40	06/22/11 16:50
BH05R	R106147-04	Water	06/22/11 11:00	06/22/11 16:50

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

BH01
R106147-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/11 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/11 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

BH03
R106147-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/11 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/22/11 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		113 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		92.5 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

BH02R
R106147-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/11 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/22/11 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		113 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		97.1 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

BH05R
R106147-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/11 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1062407	06/24/11	06/25/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/22/11 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		112 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		92.3 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

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 1062407 - EPA 5030 Water MS

Blank (1062407-BLK1)

Prepared & Analyzed: 06/24/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3	116	57.9-139				
Surrogate: Toluene-d8	12.8		"	13.3	96.4	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3	101	80.8-120				

LCS (1062407-BS1)

Prepared & Analyzed: 06/24/11

Benzene	28.7	1.0	ug/l	33.3	86.1	60.1-131			10.9	
Toluene	31.4	1.0	"	33.3	94.2	65.9-127			11.3	
Ethylbenzene	33.6	1.0	"	33.3	101	65.1-129			20	
m,p-Xylene	69.2	2.0	"	66.7	104	66.8-127			20	
o-Xylene	32.8	1.0	"	33.3	98.3	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	15.3		"	13.3	115	57.9-139				
Surrogate: Toluene-d8	12.2		"	13.3	91.7	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3	94.8	80.8-120				

LCS Dup (1062407-BSD1)

Prepared & Analyzed: 06/24/11

Benzene	28.6	1.0	ug/l	33.3	85.9	60.1-131	0.244		10.9	
Toluene	31.2	1.0	"	33.3	93.8	65.9-127	0.447		11.3	
Ethylbenzene	32.3	1.0	"	33.3	97.0	65.1-129	3.91		20	
m,p-Xylene	67.6	2.0	"	66.7	101	66.8-127	2.28		20	
o-Xylene	31.9	1.0	"	33.3	95.8	61.2-120	2.60		20	
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3	116	57.9-139				
Surrogate: Toluene-d8	12.4		"	13.3	93.0	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3	96.5	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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

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 1062407 - EPA 5030 Water MS

Matrix Spike (1062407-MS1)		Source: R106140-01			Prepared & Analyzed: 06/24/11					
Benzene	30.8	1.0	ug/l	33.3	ND	92.6	52.7-130		19.3	
Toluene	32.8	1.0	"	33.3	ND	98.3	57-127		18.7	
Ethylbenzene	34.0	1.0	"	33.3	ND	102	59.2-127		20	
m,p-Xylene	71.0	2.0	"	66.7	ND	107	53.2-132		20	
o-Xylene	34.4	1.0	"	33.3	ND	103	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		116	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		95.8	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	80.8-120			
Matrix Spike Dup (1062407-MSD1)		Source: R106140-01			Prepared & Analyzed: 06/24/11					
Benzene	29.9	1.0	ug/l	33.3	ND	89.7	52.7-130	3.13	19.3	
Toluene	32.0	1.0	"	33.3	ND	96.0	57-127	2.41	18.7	
Ethylbenzene	33.5	1.0	"	33.3	ND	100	59.2-127	1.60	20	
m,p-Xylene	69.4	2.0	"	66.7	ND	104	53.2-132	2.34	20	
o-Xylene	33.8	1.0	"	33.3	ND	101	56.3-117	1.88	20	
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		96.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

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 'MSM'.

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

August 23, 2011

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 08/18/11 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director

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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
08/23/11 08:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH04R	R108135-01	Water	08/18/11 10:35	08/18/11 14:00

R.108135

Summit Scientific

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

Client: LTE Project Manager: Brian Delek

Address: Cn File E-Mail: boadek@hewlett.com

City/State/Zip: ✓ Project Name: Wacker 2, 22-10, 1CD

Phone: ✓ Fax: ✓ Project Number: PDC 11016

Sampler Name: Devlin Griffin

[illegible]

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
08/23/11 08:48

BH04R
R108135-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/18/11 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	9.2	1.0	ug/l	1	1081903	08/19/11	08/20/11	EPA 8260B	
Toluene	3.7	1.0	"	"	"	"	"	"	
Ethylbenzene	36	1.0	"	"	"	"	"	"	
Xylenes (total)	2.7	1.0	"	"	"	"	08/20/11	"	

Date Sampled: **08/18/11 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
08/23/11 08:48

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 1081903 - EPA 5030 Water MS

Blank (1081903-BLK1)

Prepared: 08/19/11 Analyzed: 08/20/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3	104	57.9-139				
Surrogate: Toluene-d8	13.6		"	13.3	102	83.1-115				
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3	105	80.8-120				

LCS (1081903-BS1)

Prepared: 08/19/11 Analyzed: 08/20/11

Benzene	35.8	1.0	ug/l	33.3	108	60.1-131			10.9	
Toluene	36.1	1.0	"	33.3	108	65.9-127			11.3	
Ethylbenzene	35.4	1.0	"	33.3	106	65.1-129			20	
m,p-Xylene	64.9	2.0	"	66.7	97.4	66.8-127			20	
o-Xylene	35.2	1.0	"	33.3	106	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3	102	57.9-139				
Surrogate: Toluene-d8	14.1		"	13.3	106	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3	102	80.8-120				

LCS Dup (1081903-BSD1)

Prepared: 08/19/11 Analyzed: 08/20/11

Benzene	37.6	1.0	ug/l	33.3	113	60.1-131	4.69		10.9	
Toluene	37.7	1.0	"	33.3	113	65.9-127	4.31		11.3	
Ethylbenzene	37.2	1.0	"	33.3	112	65.1-129	4.90		20	
m,p-Xylene	67.8	2.0	"	66.7	102	66.8-127	4.38		20	
o-Xylene	36.8	1.0	"	33.3	110	61.2-120	4.36		20	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	104	57.9-139				
Surrogate: Toluene-d8	14.1		"	13.3	106	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3	101	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
08/23/11 08:48

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 'MSM'.

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 30, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 09/23/11 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R109145-01	Water	09/23/11 13:00	09/23/11 16:50
MW02R	R109145-02	Water	09/23/11 12:15	09/23/11 16:50
MW03	R109145-03	Water	09/23/11 11:45	09/23/11 16:50
MW04R	R109145-04	Water	09/23/11 11:20	09/23/11 16:50
MW05R	R109145-05	Water	09/23/11 12:35	09/23/11 16:50

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016

Project Manager: Brian Dodek

Reported:

09/30/11 14:44

R109145

Summit Scientific

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: Devia Girki

— 215 —

Project Manager:

E-Mail:

Project Name: /A

Project Number:

Journal of Management Education

Brian Dodek

bdodek@item

Jack

POC 10/21/16

2021-2021

ny.com

22-10 107

6/1/23

1

1

10

1

1

1

1

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	GBTEX	BTEX	pH / EC	SAR	Table 910.1 metals		
MW01	9-23-11	1300	3	X				X											
MW02R	↓	1215	↓	↓				↓											
MW03	↓	1145	↓	↓				↓											
MW04R	↓	1120	↓	↓				↓											
MW05R	↓	1235	↓	↓				↓											
															</				

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

MW01
R109145-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/11 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/23/11 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.2 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

MW02R
R109145-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/11 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/23/11 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		108 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.3 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

MW03
R109145-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/11 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/23/11 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.3 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

MW04R
R109145-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/11 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	36	1.0	ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	68	1.0	"	"	"	"	"	"	
Xylenes (total)	730	1.0	"	"	"	"	"	"	

Date Sampled: **09/23/11 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.0 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

MW05R
R109145-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/23/11 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1092707	09/27/11	09/28/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/23/11 12:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		111 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.2 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

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 1092707 - EPA 5030 Water MS

Blank (1092707-BLK1)

Prepared: 09/27/11 Analyzed: 09/28/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		98.6	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	80.8-120			

LCS (1092707-BS1)

Prepared: 09/27/11 Analyzed: 09/28/11

Benzene	39.9	1.0	ug/l	33.3		120	60.1-131		10.9	
Toluene	41.0	1.0	"	33.3		123	65.9-127		11.3	
Ethylbenzene	41.1	1.0	"	33.3		123	65.1-129		20	
m,p-Xylene	75.4	2.0	"	66.7		113	66.8-127		20	
o-Xylene	40.1	1.0	"	33.3		120	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	57.9-139			
Surrogate: Toluene-d8	14.0		"	13.3		105	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.8	80.8-120			

LCS Dup (1092707-BSD1)

Prepared: 09/27/11 Analyzed: 09/28/11

Benzene	37.2	1.0	ug/l	33.3		112	60.1-131	7.11	10.9	
Toluene	36.9	1.0	"	33.3		111	65.9-127	10.4	11.3	
Ethylbenzene	38.0	1.0	"	33.3		114	65.1-129	7.81	20	
m,p-Xylene	70.8	2.0	"	66.7		106	66.8-127	6.23	20	
o-Xylene	38.9	1.0	"	33.3		117	61.2-120	3.04	20	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	57.9-139			
Surrogate: Toluene-d8	13.6		"	13.3		102	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.7	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

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 1092707 - EPA 5030 Water MS

Matrix Spike (1092707-MS1)		Source: R109147-02			Prepared: 09/27/11		Analyzed: 09/28/11			
Benzene	39.8	1.0	ug/l	33.3	ND	119	52.7-130		19.3	
Toluene	39.3	1.0	"	33.3	ND	118	57-127		18.7	
Ethylbenzene	40.0	1.0	"	33.3	ND	120	59.2-127		20	
m,p-Xylene	74.7	2.0	"	66.7	ND	112	53.2-132		20	
o-Xylene	38.8	1.0	"	33.3	ND	116	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	57.9-139			
Surrogate: Toluene-d8	13.9		"	13.3		104	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.0	80.8-120			
Matrix Spike Dup (1092707-MSD1)		Source: R109147-02			Prepared: 09/27/11		Analyzed: 09/28/11			
Benzene	42.5	1.0	ug/l	33.3	ND	127	52.7-130	6.47	19.3	
Toluene	39.8	1.0	"	33.3	ND	119	57-127	1.19	18.7	
Ethylbenzene	42.3	1.0	"	33.3	ND	127	59.2-127	5.54	20	
m,p-Xylene	80.5	2.0	"	66.7	ND	121	53.2-132	7.50	20	
o-Xylene	35.6	1.0	"	33.3	ND	107	56.3-117	8.49	20	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	57.9-139			
Surrogate: Toluene-d8	13.7		"	13.3		103	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/30/11 14:44

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 'MSM'.

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 19, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 12/08/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R112051-01	Water	12/08/11 11:30	12/08/11 17:00
BH02	R112051-02	Water	12/08/11 11:35	12/08/11 17:00
BH03	R112051-03	Water	12/08/11 11:40	12/08/11 17:00
BH04	R112051-04	Water	12/08/11 11:45	12/08/11 17:00
BH05	R112051-05	Water	12/08/11 11:50	12/08/11 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016

Project Manager: Brian Dodek

Reported:

12/19/11 17:10

R112051

Summit Scientific

S₂
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

Fax: (303) 433-1432

Project Name: Wicker 2, 22-10, 102

Sampler Name: ILK.gov

Project Name: Wickit at 22
Project Number: BDC10016

Page / of /

[illegible]

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

BH01
R112051-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/08/11 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1121209	12/12/11	12/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/08/11 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.5 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

BH02
R112051-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/08/11 11:35

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1121209	12/12/11	12/16/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/08/11 11:35

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.2 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.7 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

BH03
R112051-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/08/11 11:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	42	1.0		ug/l	1	1121209	12/12/11	12/16/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/08/11 11:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		97.4 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.0 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

BH04
R112051-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/08/11 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1121209	12/12/11	12/17/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	5.7	1.0	"	"	"	"	"	"	
Xylenes (total)	22	1.0	"	"	"	"	"	"	

Date Sampled: 12/08/11 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.1 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

BH05
R112051-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/08/11 11:50

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1121209	12/12/11	12/17/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/08/11 11:50

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		103 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.4 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

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 1121209 - EPA 5030 Water MS

Blank (1121209-BLK1)

Prepared & Analyzed: 12/12/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3	100	57.9-139				
Surrogate: Toluene-d8	13.8		"	13.3	104	83.1-115				
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3	106	80.8-120				

Blank (1121209-BLK2)

Prepared & Analyzed: 12/12/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3	103	57.9-139				
Surrogate: Toluene-d8	13.4		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3	107	80.8-120				

LCS (1121209-BS1)

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	36.3	1.0	ug/l	33.3	109	60.1-131			10.9	
Toluene	36.6	1.0	"	33.3	110	65.9-127			11.3	
Ethylbenzene	37.0	1.0	"	33.3	111	65.1-129			20	
m,p-Xylene	72.6	2.0	"	66.7	109	66.8-127			20	
o-Xylene	36.4	1.0	"	33.3	109	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3	98.9	57.9-139				
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.0	80.8-120				

LCS (1121209-BS2)

Prepared: 12/12/11 Analyzed: 12/19/11

Benzene	35.5	1.0	ug/l	33.3	106	60.1-131			10.9	
Toluene	36.1	1.0	"	33.3	108	65.9-127			11.3	
Ethylbenzene	34.5	1.0	"	33.3	104	65.1-129			20	
m,p-Xylene	73.2	2.0	"	66.7	110	66.8-127			20	
o-Xylene	36.0	1.0	"	33.3	108	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3	99.8	57.9-139				
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3	102	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

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 1121209 - EPA 5030 Water MS

LCS Dup (1121209-BSD1)

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	38.4	1.0	ug/l	33.3	115	60.1-131	5.57	10.9	
Toluene	37.0	1.0	"	33.3	111	65.9-127	1.14	11.3	
Ethylbenzene	37.7	1.0	"	33.3	113	65.1-129	1.90	20	
m,p-Xylene	74.2	2.0	"	66.7	111	66.8-127	2.06	20	
o-Xylene	37.6	1.0	"	33.3	113	61.2-120	3.30	20	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	104	57.9-139			
Surrogate: Toluene-d8	13.8		"	13.3	104	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3	103	80.8-120			

LCS Dup (1121209-BSD2)

Prepared: 12/12/11 Analyzed: 12/19/11

Benzene	38.4	1.0	ug/l	33.3	115	60.1-131	7.85	10.9	
Toluene	37.0	1.0	"	33.3	111	65.9-127	2.46	11.3	
Ethylbenzene	37.7	1.0	"	33.3	113	65.1-129	8.86	20	
m,p-Xylene	74.2	2.0	"	66.7	111	66.8-127	1.36	20	
o-Xylene	37.6	1.0	"	33.3	113	61.2-120	4.35	20	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	104	57.9-139			
Surrogate: Toluene-d8	13.8		"	13.3	104	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3	104	80.8-120			

Matrix Spike (1121209-MS1)

Source: R112040-01

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	37.2	1.0	ug/l	33.3	ND	112	52.7-130	19.3	
Toluene	36.2	1.0	"	33.3	ND	109	57-127	18.7	
Ethylbenzene	35.8	1.0	"	33.3	ND	107	59.2-127	20	
m,p-Xylene	70.2	2.0	"	66.7	ND	105	53.2-132	20	
o-Xylene	35.1	1.0	"	33.3	ND	105	56.3-117	20	
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3	110	57.9-139			
Surrogate: Toluene-d8	14.5		"	13.3	109	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3	104	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

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 1121209 - EPA 5030 Water MS

Matrix Spike (1121209-MS2)		Source: R112040-02			Prepared: 12/12/11		Analyzed: 12/16/11			
Benzene	23.5	1.0	ug/l	33.3	ND	70.5	52.7-130		19.3	
Toluene	26.3	1.0	"	33.3	ND	79.0	57-127		18.7	
Ethylbenzene	26.6	1.0	"	33.3	ND	79.8	59.2-127		20	
m,p-Xylene	56.1	2.0	"	66.7	ND	84.1	53.2-132		20	
o-Xylene	28.1	1.0	"	33.3	ND	84.4	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	10.8		"	13.3		80.7	57.9-139			
Surrogate: Toluene-d8	12.5		"	13.3		94.0	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.7		"	13.3		87.5	80.8-120			

Matrix Spike Dup (1121209-MSD1)		Source: R112040-01			Prepared: 12/12/11		Analyzed: 12/13/11			
Benzene	40.3	1.0	ug/l	33.3	ND	121	52.7-130	7.79	19.3	
Toluene	39.2	1.0	"	33.3	ND	118	57-127	7.80	18.7	
Ethylbenzene	38.3	1.0	"	33.3	ND	115	59.2-127	6.83	20	
m,p-Xylene	75.2	2.0	"	66.7	ND	113	53.2-132	6.89	20	
o-Xylene	37.4	1.0	"	33.3	ND	112	56.3-117	6.15	20	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	57.9-139			
Surrogate: Toluene-d8	14.2		"	13.3		107	83.1-115			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	80.8-120			

Matrix Spike Dup (1121209-MSD2)		Source: R112040-02			Prepared: 12/12/11		Analyzed: 12/16/11			
Benzene	24.8	1.0	ug/l	33.3	ND	74.3	52.7-130	5.18	19.3	
Toluene	27.3	1.0	"	33.3	ND	82.0	57-127	3.76	18.7	
Ethylbenzene	27.4	1.0	"	33.3	ND	82.2	59.2-127	2.93	20	
m,p-Xylene	57.5	2.0	"	66.7	ND	86.2	53.2-132	2.48	20	
o-Xylene	28.9	1.0	"	33.3	ND	86.8	56.3-117	2.87	20	
Surrogate: 1,2-Dichloroethane-d4	11.2		"	13.3		84.4	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		96.4	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3		88.5	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/19/11 17:10

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 'MSM'.

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

April 09, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 03/29/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R203224-01	Water	03/29/12 11:20	03/29/12 16:30
BH02R	R203224-02	Water	03/29/12 11:10	03/29/12 16:30
BH03	R203224-03	Water	03/29/12 10:50	03/29/12 16:30
BH04R	R203224-04	Water	03/29/12 10:35	03/29/12 16:30
BH05R	R203224-05	Water	03/29/12 11:35	03/29/12 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

Summit Scientific

203224

S

741 Corporate Circle Suite 1 • Golden, Colorado 80001
303-277-9510 • 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc.
Address: 4400 West 60th Avenue
City/State/Zip: Arvada, CO 80003
Phone: (303) 433-4788 Fax: (303) 433-4432
Sample Name: Deion G-1
Project Manager: Brian Dodek
E-Mail: bdodek@ltenv.com
Project Name: Wacker 2, 3, 2-10, 10D
Project Number: PDC 10016.001

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	GBTEX	BTEX	PH / EC	
BAC1	3-29-12	1120	3	X				X								
BAC2	1110															
BAC3	1056															
BAC4	1135															
BAC5	1135															
Relinquished by: <u>Calvin</u> Date/Time: <u>3-29-12 1630</u>																
Relinquished by: _____ Date/Time: _____																
Relinquished by: _____ Date/Time: _____																

Turn Around Time (Check)	Notes
Same Day	
24 Hours	
48 Hours	
72 Hours	<input checked="" type="checkbox"/>
Standard	

Sample Integrity: 55
Temperature Upon Receipt: 55
Inact: 08 No

Received by: [Signature] Date/Time: 3-21-12 1630
Received by: _____ Date/Time: _____
Received 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

BH01
R203224-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/12 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/29/12 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

BH02R
R203224-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/12 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/29/12 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.8 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

BH03
R203224-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/12 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/29/12 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		105 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.0 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

BH04R
R203224-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/12 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2040312	04/03/12	04/05/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/29/12 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		119 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		109 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

BH05R
R203224-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/12 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2040312	04/03/12	04/09/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **03/29/12 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		101 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %		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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

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 2040312 - EPA 5030 Water MS

Blank (2040312-BLK1)

Prepared: 04/03/12 Analyzed: 04/04/12

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	105	57.9-139				
Surrogate: Toluene-d8	13.3		"	13.4	99.4	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.8		"	13.4	95.5	80.8-120				

LCS (2040312-BS1)

Prepared: 04/03/12 Analyzed: 04/05/12

Benzene	90.6	1.0	ug/l	100	90.6	60.1-131				
Toluene	99.4	1.0	"	100	99.4	65.9-127				
Ethylbenzene	116	1.0	"	100	116	65.1-129				
m,p-Xylene	222	2.0	"	200	111	66.8-127				
o-Xylene	104	1.0	"	100	104	61.2-120				
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3	106	57.9-139				
Surrogate: Toluene-d8	13.3		"	13.4	99.6	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.4	97.7	80.8-120				

LCS Dup (2040312-BSD1)

Prepared: 04/03/12 Analyzed: 04/05/12

Benzene	90.2	1.0	ug/l	100	90.2	60.1-131	0.453	10.9		
Toluene	100	1.0	"	100	100	65.9-127	0.951	11.3		
Ethylbenzene	119	1.0	"	100	119	65.1-129	2.13	20		
m,p-Xylene	227	2.0	"	200	114	66.8-127	2.11	20		
o-Xylene	106	1.0	"	100	106	61.2-120	2.38	20		
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3	104	57.9-139				
Surrogate: Toluene-d8	13.1		"	13.4	98.3	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.4	97.2	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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

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 2040312 - EPA 5030 Water MS

Matrix Spike (2040312-MS1)				Source: R203208-01		Prepared: 04/03/12		Analyzed: 04/05/12		
Benzene	91.5	1.0	ug/l	100	ND	91.5	52.7-130			
Toluene	101	1.0	"	100	ND	101	57-127			
Ethylbenzene	117	1.0	"	100	ND	117	59.2-127			
m,p-Xylene	224	2.0	"	200	ND	112	53.2-132			
o-Xylene	105	1.0	"	100	ND	105	56.3-117			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		106	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.4		98.8	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.4		96.6	80.8-120			
Matrix Spike Dup (2040312-MSD1)				Source: R203208-01		Prepared: 04/03/12		Analyzed: 04/05/12		
Benzene	92.6	1.0	ug/l	100	ND	92.6	52.7-130	1.15	19.3	
Toluene	102	1.0	"	100	ND	102	57-127	1.72	18.7	
Ethylbenzene	120	1.0	"	100	ND	120	59.2-127	2.47	20	
m,p-Xylene	231	2.0	"	200	ND	115	53.2-132	2.78	20	
o-Xylene	108	1.0	"	100	ND	108	56.3-117	2.55	20	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		107	57.9-139			
Surrogate: Toluene-d8	13.3		"	13.4		99.5	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.4		99.1	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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
04/09/12 16:05

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

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.

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 28, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 06/22/12 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 read 'Paul Shrewsbury', is written over a light gray circular background.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R206175-01	Water	06/22/12 12:05	06/22/12 17:00
BH02R	R206175-02	Water	06/22/12 12:40	06/22/12 17:00
BH03	R206175-03	Water	06/22/12 13:00	06/22/12 17:00
BH04R	R206175-04	Water	06/22/12 11:35	06/22/12 17:00
BH05R	R206175-05	Water	06/22/12 12:15	06/22/12 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001

Project Manager: Brian Dodek

Reported:

06/28/12 18:32

R206/75

Summit Scientific

52

741 Corporate Circle Suite 1 • 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: (307) 433-9788

Sampler Name: Darius

115 West

Project Manager: Brian Doherty

© 2004 by The McGraw-Hill Companies, Inc. All rights reserved. Printed in the United States of America. This book is printed on acid-free paper.

Project Name: Ukraine 5 93

Project Name: WATER 2, 2070, 10P
Project Number: 2001011 081

Project Number: FVLC/06.001

Sample Description			Preservative		Matrix		Analyze For:		Special Instructions	
Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil		Air - Canister Serial #
2401	6:30-8:30	3	X							Table 910.1 metals
2402 R	1240		X							SAR
2403	1240									pH / EC
2404 R	1135									BTX
2405 R	1215									GBTEX
										DRO
										Other (Specify)

Relinquished by:		Date Time:	1706	Received by:	Date Time:	Turn Around Time (Check)	Notes:
[Signature]		6:30-12				Same Day 24 Hours 48 Hours	72 Hours Standard X

Relinquished by:		Date Time:	Received in Lab by:	Date Time:	Sample Integrity:
[Signature]		1400	[Signature]	10:24:16	Temperature Upon Receipt: 50 Intact: Yes No

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

BH01
R206175-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/12 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		91.1 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

BH02R
R206175-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/12 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/22/12 12:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		49.7-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.5 %		50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

BH03
R206175-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		91.9 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

BH04R
R206175-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	7.8	1.0	"	"	"	"	"	"	
Xylenes (total)	26	1.0	"	"	"	"	"	"	

Date Sampled: **06/22/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>49.7-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>107 %</i>	<i>51-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>103 %</i>	<i>50.1-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

BH05R
R206175-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/22/12 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2062611	06/26/12	06/27/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **06/22/12 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		104 %		49.7-150		"	"	"	"	
Surrogate: Toluene-d8		81.8 %		51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %		50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

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 2062611 - EPA 5030 Water MS

Blank (2062611-BLK1)

Prepared & Analyzed: 06/26/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		99.9	27.8-167			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	27.6-157			

LCS (2062611-BS1)

Prepared: 06/26/12 Analyzed: 06/27/12

Benzene	34.4	1.0	ug/l	33.3		103	57.5-115			
Toluene	34.9	1.0	"	33.3		105	54-127			
Ethylbenzene	36.5	1.0	"	33.3		110	49.7-139			
m,p-Xylene	73.2	2.0	"	66.7		110	56-133			
o-Xylene	36.3	1.0	"	33.3		109	58.5-129			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		102	27.8-167			
Surrogate: Toluene-d8	13.2		"	13.3		98.8	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	27.6-157			

LCS Dup (2062611-BSD1)

Prepared: 06/26/12 Analyzed: 06/27/12

Benzene	34.8	1.0	ug/l	33.3		105	57.5-115	1.24	13.6	
Toluene	35.8	1.0	"	33.3		107	54-127	2.49	16.6	
Ethylbenzene	37.4	1.0	"	33.3		112	49.7-139	2.35	12.7	
m,p-Xylene	74.8	2.0	"	66.7		112	56-133	2.22	13.8	
o-Xylene	36.8	1.0	"	33.3		111	58.5-129	1.45	14.7	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		98.9	27.8-167			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.6	27.6-157			

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 - Wacker 2, 10D, 22-10
Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

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 2062611 - EPA 5030 Water MS

Matrix Spike (2062611-MS1)				Source: R206167-01		Prepared: 06/26/12		Analyzed: 06/27/12		
Benzene	34.7	1.0	ug/l	33.3	ND	104	37.2-135			
Toluene	35.1	1.0	"	33.3	ND	105	26.2-157			
Ethylbenzene	36.8	1.0	"	33.3	ND	110	21-162			
m,p-Xylene	73.4	2.0	"	66.7	ND	110	23.7-162			
o-Xylene	36.7	1.0	"	33.3	ND	110	28.9-156			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103	27.8-167			
Surrogate: Toluene-d8	13.2		"	13.3		99.3	31.8-160			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.9	27.6-157			
Matrix Spike Dup (2062611-MSD1)				Source: R206167-01		Prepared: 06/26/12		Analyzed: 06/27/12		
Benzene	36.6	1.0	ug/l	33.3	ND	110	37.2-135	5.52	25	
Toluene	37.2	1.0	"	33.3	ND	112	26.2-157	5.97	19.2	
Ethylbenzene	38.6	1.0	"	33.3	ND	116	21-162	4.75	21.9	
m,p-Xylene	77.1	2.0	"	66.7	ND	116	23.7-162	4.85	19.1	
o-Xylene	38.1	1.0	"	33.3	ND	114	28.9-156	3.64	20.3	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		101	27.8-167			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	31.8-160			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	27.6-157			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016.001
Project Manager: Brian Dodek

Reported:
06/28/12 18:32

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

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.

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

September 24, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 09/20/12 17:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph J. Egry IV". The signature is fluid and cursive, with a distinct "IV" at the end.

Joseph J Egry IV

Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R209149-01	Water	09/20/12 11:00	09/20/12 17:05
BH02R	R209149-02	Water	09/20/12 11:20	09/20/12 17:05
BH03	R209149-03	Water	09/20/12 11:30	09/20/12 17:05
BH04R	R209149-04	Water	09/20/12 10:50	09/20/12 17:05
BH05R	R209149-05	Water	09/20/12 11:10	09/20/12 17:05

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016

Project Manager: Brian Dodek

Reported:

09/24/12 15:14

Summit Scientific
R209149

52

741 Corporate Circle Suite 1 • 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

Sampler Name: Michael W. Velez

Example Name: FLOWERS WORKS

Project Manager.

E-Mail:

Project Name:

Project Number

Project Number:

[illegible]

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.

Legal Eagle IV



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

BH01
R209149-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2092204	09/22/12	09/22/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/20/12 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.4 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

BH02R
R209149-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/12 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2092204	09/22/12	09/22/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/20/12 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		83.4 %		49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.2 %		51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %		50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

BH03
R209149-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/12 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2092204	09/22/12	09/23/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/20/12 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		91.3 %		49.7-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %		51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %		50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

BH04R
R209149-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/12 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2092204	09/22/12	09/23/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/20/12 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		90.3 %		49.7-150		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %		50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

BH05R
R209149-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/12 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2092204	09/22/12	09/23/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/20/12 11:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		88.6 %		49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.9 %		51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.3 %		50.1-150		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

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 2092204 - EPA 5030 Water MS

Blank (2092204-BLK1)

Prepared & Analyzed: 09/22/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.2		89.5	49.7-150			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	51-150			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.5	50.1-150			

LCS (2092204-BS1)

Prepared & Analyzed: 09/22/12

Benzene	23.6	1.0	ug/l	33.3		70.9	51-132			
Toluene	27.8	1.0	"	33.3		83.4	51-138			
Ethylbenzene	29.6	1.0	"	33.3		88.7	58-146			
m,p-Xylene	61.0	2.0	"	66.7		91.6	57-144			
o-Xylene	29.2	1.0	"	33.3		87.7	53-146			
Surrogate: 1,2-Dichloroethane-d4	11.1		"	13.2		83.6	49.7-150			
Surrogate: Toluene-d8	12.7		"	13.3		95.0	51-150			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	50.1-150			

LCS Dup (2092204-BSD1)

Prepared & Analyzed: 09/22/12

Benzene	23.7	1.0	ug/l	33.3		71.1	51-132	0.296	17	
Toluene	27.8	1.0	"	33.3		83.5	51-138	0.108	17	
Ethylbenzene	29.1	1.0	"	33.3		87.3	58-146	1.57	16	
m,p-Xylene	59.6	2.0	"	66.7		89.4	57-144	2.37	16	
o-Xylene	28.8	1.0	"	33.3		86.4	53-146	1.52	15	
Surrogate: 1,2-Dichloroethane-d4	10.9		"	13.2		82.1	49.7-150			
Surrogate: Toluene-d8	13.0		"	13.3		97.4	51-150			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.2	50.1-150			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

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 2092204 - EPA 5030 Water MS

Matrix Spike (2092204-MS1)				Source: R209140-01		Prepared & Analyzed: 09/22/12				
Benzene	27.6	1.0	ug/l	33.3	ND	82.8	34-141			
Toluene	28.0	1.0	"	33.3	ND	84.1	27-151			
Ethylbenzene	29.2	1.0	"	33.3	ND	87.5	29-160			
m,p-Xylene	60.1	2.0	"	66.7	ND	90.1	20-166			
o-Xylene	29.0	1.0	"	33.3	ND	87.0	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.2		92.3	49.7-150			
Surrogate: Toluene-d8	13.0		"	13.3		97.5	51-150			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.7	50.1-150			
Matrix Spike Dup (2092204-MSD1)				Source: R209140-01		Prepared & Analyzed: 09/22/12				
Benzene	27.7	1.0	ug/l	33.3	ND	83.2	34-141	0.470	32	
Toluene	28.0	1.0	"	33.3	ND	84.0	27-151	0.0357	25	
Ethylbenzene	29.1	1.0	"	33.3	ND	87.3	29-160	0.172	50	
m,p-Xylene	59.3	2.0	"	66.7	ND	88.9	20-166	1.32	36	
o-Xylene	28.8	1.0	"	33.3	ND	86.4	33-159	0.692	26	
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.2		95.3	49.7-150			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	51-150			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	50.1-150			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
09/24/12 15:14

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 read 'Daniel A. [unclear]'.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 26, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wacker 2, 10D, 22-10

Enclosed are the results of analyses for samples received by Summit Scientific on 12/20/12 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 read "Joseph J. Egry IV". The signature is fluid and cursive, with a distinct "IV" at the end.

Joseph J Egry IV

Laboratory Director



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

Project: PDC - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	R212131-01	Water	12/20/12 13:35	12/20/12 17:00
BH02R	R212131-02	Water	12/20/12 13:15	12/20/12 17:00
BH03	R212131-03	Water	12/20/12 13:05	12/20/12 17:00
BH05R	R212131-04	Water	12/20/12 13:25	12/20/12 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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

BH01
R212131-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/20/12 13:35

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/20/12 13:35

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		107 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		99.8 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		45-146		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

BH02R
R212131-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/20/12 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: **12/20/12 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		108 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		99.0 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		45-146		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

BH03
R212131-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/20/12 13:05

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 12/20/12 13:05

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		109 %		37-154		"	"	"	"	
Surrogate: Toluene-d8		99.0 %		45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		45-146		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

BH05R
R212131-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/20/12 13:25

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2122111	12/21/12	12/24/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/20/12 13:25

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	45-146		"	"	"	"	

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

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 2122111 - EPA 5030 Water MS

Blank (2122111-BLK1)

Prepared: 12/21/12 Analyzed: 12/23/12

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		"	13.2		106	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.4	45-149			
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3		108	45-146			

LCS (2122111-BS1)

Prepared: 12/21/12 Analyzed: 12/23/12

Benzene	29.0	1.0	ug/l	33.3		86.9	51-132			
Toluene	31.1	1.0	"	33.3		93.3	51-138			
Ethylbenzene	32.4	1.0	"	33.3		97.1	58-146			
m,p-Xylene	67.0	2.0	"	66.7		101	57-144			
o-Xylene	33.1	1.0	"	33.3		99.3	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.2		111	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	45-149			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		102	45-146			

LCS Dup (2122111-BSD1)

Prepared: 12/21/12 Analyzed: 12/23/12

Benzene	25.7	1.0	ug/l	33.3		77.1	51-132	11.9	17	
Toluene	28.0	1.0	"	33.3		84.0	51-138	10.4	17	
Ethylbenzene	29.6	1.0	"	33.3		88.7	58-146	9.01	16	
m,p-Xylene	59.8	2.0	"	66.7		89.6	57-144	11.5	16	
o-Xylene	30.4	1.0	"	33.3		91.1	53-146	8.67	15	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.2		109	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.8	45-149			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	45-146			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

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 2122111 - EPA 5030 Water MS

Matrix Spike (2122111-MS1)		Source: R212112-01			Prepared: 12/21/12		Analyzed: 12/23/12			
Benzene	25.6	1.0	ug/l	33.3	ND	76.7	34-141			
Toluene	27.8	1.0	"	33.3	ND	83.6	27-151			
Ethylbenzene	28.9	1.0	"	33.3	ND	86.8	29-160			
m,p-Xylene	59.8	2.0	"	66.7	ND	89.7	20-166			
o-Xylene	29.4	1.0	"	33.3	ND	88.3	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.2		109	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.6	45-149			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	45-146			
Matrix Spike Dup (2122111-MSD1)		Source: R212112-01			Prepared: 12/21/12		Analyzed: 12/23/12			
Benzene	26.4	1.0	ug/l	33.3	ND	79.3	34-141	3.27	32	
Toluene	28.8	1.0	"	33.3	ND	86.3	27-151	3.25	25	
Ethylbenzene	30.4	1.0	"	33.3	ND	91.1	29-160	4.79	50	
m,p-Xylene	61.8	2.0	"	66.7	ND	92.7	20-166	3.32	36	
o-Xylene	30.9	1.0	"	33.3	ND	92.7	33-159	4.84	26	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.2		108	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.7	45-149			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146			

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 - Wacker 2, 10D, 22-10

Project Number: PDC 10016
Project Manager: Brian Dodek

Reported:
12/26/12 14:04

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 read 'Daniel A. [unclear]'.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	8260B BTEX TXYL	(Water)	Special Units: (ug/l) VERSION 6.10:2005 Default Report (not modified)