



Oil and Gas Conservation Commission

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



#6012

FOR OGCC USE ONLY	
RECEIVED	
AUG 12 2011	
COGCC	
OGCC Employee: _____	
<input checked="" type="checkbox"/> Spill	<input type="checkbox"/> Complaint
<input type="checkbox"/> Inspection	<input type="checkbox"/> NOAV
Tracking No: <u>1761280</u>	

SITE INVESTIGATION AND REMEDIATION WORKPLAN

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

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

GENERAL INFORMATION

OGCC Operator Number: <u>69175</u> Name of Operator: <u>Petroleum Development Corporation</u> Address: <u>1775 Sherman Street, Suite 3000</u> City: <u>Denver</u> State: <u>CO</u> Zip: <u>80203</u>		Contact Name and Telephone Name: <u>Brandon Bruns</u> No: <u>(303) 860-5800</u> Fax: <u>(303) 860-5838</u>	
API/Facility No: <u>05-123-13596</u> Facility Name: <u>Wacker 2, 22-10, 10D</u> Well Name: <u>Wacker</u>		County: <u>Weld</u> Facility Number: _____ Well Number: <u>2</u>	
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NENW Sec 10 T5N R64W 6th PM</u> Latitude: _____ Longitude: _____			

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Condensate and Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation. Groundwater 25 feet below ground surface.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Agriculture

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Colombo clay loam, 1 to 3 percent slopes/Nunn clay loam, 1 to 3 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface water is located 45' northwest of the site; a building is located 1.895' southeast of the site; a water well is located 925' east of the site; and depth to groundwater is 25' below ground surface (bgs).

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>40' N-S x 50' E-W x 20' bgs</u>	<u>Laboratory analysis and field screening of soil samples</u>
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>See attached data</u>	<u>Laboratory analysis of groundwater samples</u>
<input type="checkbox"/> Surface water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

A Form 19 was submitted on October 1, 2010 (Spill #2521515).

Describe how source is to be removed:

Impacts were encountered during equipment upgrades. PDC shut-in the wells producing to the battery. Once the dump lines were removed, approximately 1,480 cubic yards of impacted soil were excavated and transported offsite for disposal. Due to a storm event and potential irrigation of the nearby agricultural field, the excavation filled with water overnight on June 13, 2010 before excavation soil samples could be collected. As a result, approximately 1,600 barrels of impacted water were removed from the excavation with a vacuum truck. After removal, groundwater did not enter the base of the excavation. Soil samples were collected during monitoring well installation activities on June 14, 2010 and were submitted for laboratory analysis of BTEX, naphthalene, and TPH-GRO by EPA Method 8260B and TPH-DRO by EPA modified Method 8015. One soil sample was submitted for laboratory analysis of PAHs by EPA Method 8270C. Soil samples 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 on June 24, 2010. A topographic site location map and site map are provided as Figures 1 and 2. Soil and groundwater analytical results are summarized in Tables 1 and 2. The laboratory analytical reports are included as an attachment.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Approximately 1,480 cubic yards of impacted soil exceeding COGCC Table 910-1 concentration levels were transported to the Waste Management Landfill in Ault, Colorado for disposal. A total of 1,600 barrels of groundwater potentially exceeding CDPHE Regulation 41 (Reg. 41) standards were recovered and disposed of at a licensed facility.



Tracking Number: 1761280
Name of Operator: Petroleum Development Corporation
OGCC Operator No: 69175
Received Date: 8/12/11
Well Name & No: Wacker 2
Facility Name & No.: Wacker 2, 22-10, 10D

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: Axelson

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Monitoring wells BH01 through BH05 were installed at the site on June 15, 2010 (Figure 2). Following installation, each well was developed, purged, and sampled. Groundwater samples were collected from the wells and submitted for laboratory analysis of BTEX by EPA Method 8260B. Laboratory results indicated the BTEX concentrations in groundwater in monitoring well BH03 were in compliance with the CDPHE Regulation 41 (Reg. 41) standards (Table 2). The benzene concentrations in all other monitoring wells and the toluene concentration in 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. Due to access issues, PDC 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 installation, each well was developed, purged, and sampled. Groundwater samples were collected from BH02R and BH05R on April 29, 2011 and submitted for laboratory analysis of BTEX by EPA Method 8260B. Laboratory results indicated the BTEX concentrations in groundwater in monitoring wells BH02R and BH05R are in compliance with Reg. 41 standards. Immediately after installation on April 28th, well BH04R was damaged and could not be sampled. PDC will continue to monitor groundwater concentrations at the site until four consecutive quarters of groundwater analytical results in compliance with Reg. 41 standards are achieved.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.
The site was restored to pre-release grade. PDC's production facility remains at the site.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.
Is further site investigation required? [X] Y [] N If yes, describe:
Laboratory results indicated the BTEX concentrations in groundwater in monitoring wells BH01, BH02R, BH03, and BH05R were in compliance with the Reg. 41 Standards (Table 2). Monitoring well BH04R was damaged and could not be sampled. PDC is scheduling to redrill BH04R in the near future. PDC will continue to monitor groundwater concentrations at the site until four consecutive quarters of groundwater analytical results in compliance with Reg. 41 standards are achieved.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
Approximately 1,480 cubic yards of impacted soil exceeding COGCC Table 910-1 concentration levels were transported to the Waste Management Landfill in Ault, Colorado for disposal. A total of 1,600 barrels of groundwater potentially exceeding Reg. 41 standards were recovered and disposed of at a licensed facility.

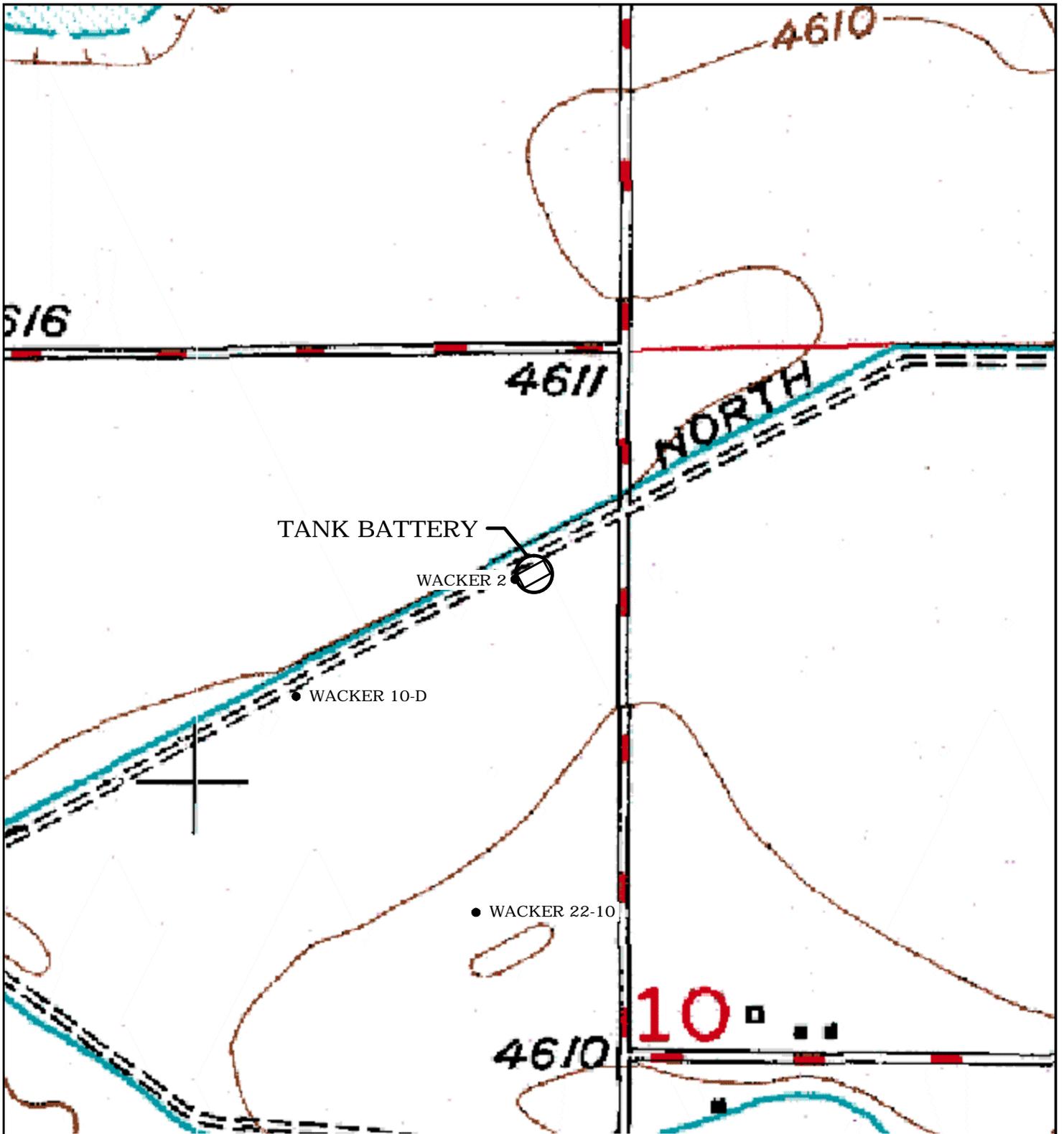
IMPLEMENTATION SCHEDULE

Table with 4 columns: Date Site Investigation Began, Date Site Investigation Completed, Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, Actual Completion Date. Values include 6/17/2010, TBD, 8/12/2011, 6/24/2010, NA, TBD.

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

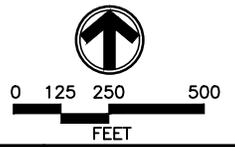
Signed: [Signature] Title: Environmental Field Coordinator Date: 8/12/2011

OGCC Approved: [Signature] Title: EPS Date: 8/16/11



LEGEND

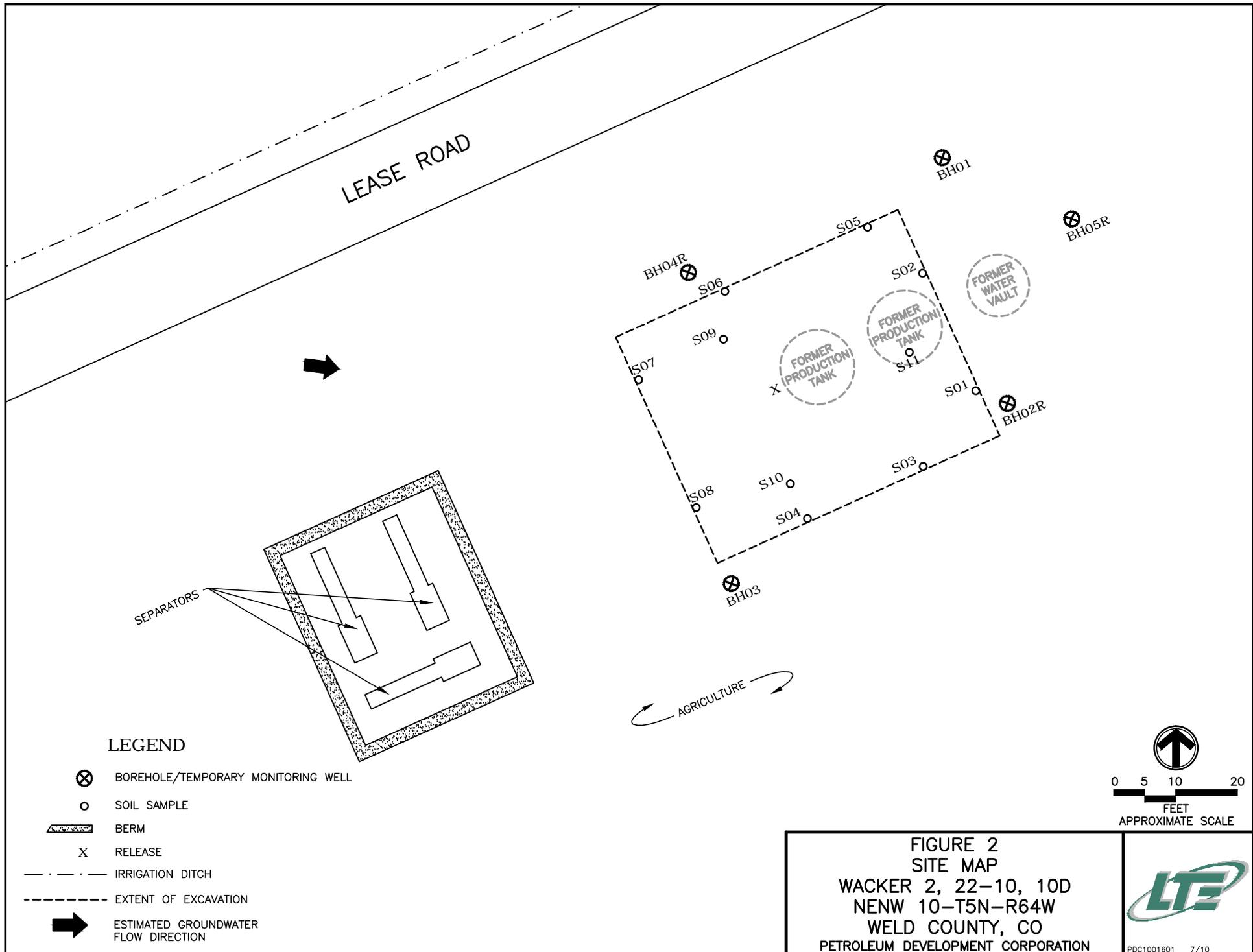
-  TANK BATTERY
-  WELL LOCATION



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

FIGURE 1
 SITE LOCATION MAP
 WACKER 2, 22-10, 10D
 NENW 10-T5N-R64W
 WELD COUNTY, CO
 PETROLEUM DEVELOPMENT CORPORATION





LEGEND

-  BOREHOLE/TEMPORARY MONITORING WELL
-  SOIL SAMPLE
-  BERM
-  RELEASE
-  IRRIGATION DITCH
-  EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION

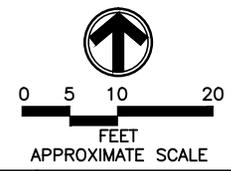


FIGURE 2
SITE MAP
 WACKER 2, 22-10, 10D
 NENW 10-T5N-R64W
 WELD COUNTY, CO
 PETROLEUM DEVELOPMENT CORPORATION



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 123-13596)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

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			
Anthracene (mg/kg)	1000	<0.33			
Benzo (a) anthracene (mg/kg)	0.22	<0.22			
Benzo (b) fluoranthene (mg/kg)	0.22	<0.22			
Benzo (k) fluoranthene (mg/kg)	2.2	<0.33			
Benzo (a) pyrene (mg/kg)	0.022	<0.062			
Chrysene (mg/kg)	22	<0.33			
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.062			
Fluoranthene (mg/kg)	1000	<0.33			
Fluorene (mg/kg)	1000	<0.33			
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.22			
Naphthalene (mg/kg)	23	<0.005	<0.005	<0.005	<0.005
Pyrene (mg/kg)	1000	<0.33			

Notes: < - less than stated laboratory reporting limit

Bold numbers indicate result equalled or exceeded standard.

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

GRO - Gasoline Range Organics

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

mg/kg - milligrams per kilogram

su - standard pH units

TPH - Total Petroleum Hydrocarbons (C6-C28)

DRO - Diesel Range Organics

SAR - Sodium Adsorption Ratio



TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 123-13596)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

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				
Anthracene (mg/kg)	1000				
Benzo (a) anthracene (mg/kg)	0.22				
Benzo (b) fluoranthene (mg/kg)	0.22				
Benzo (k) fluoranthene (mg/kg)	2.2				
Benzo (a) pyrene (mg/kg)	0.022				
Chrysene (mg/kg)	22				
Dibenz (a,h) anthracene (mg/kg)	0.022				
Fluoranthene (mg/kg)	1000				
Fluorene (mg/kg)	1000				
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22				
Naphthalene (mg/kg)	23	<0.005			
Pyrene (mg/kg)	1000				

Notes: < - less than stated laboratory reporting limit

Bold numbers indicate result equalled or exceeded standard.

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

GRO - Gasoline Range Organics

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

mg/kg - milligrams per kilogram

su - standard pH units

TPH - Total Petroleum Hydrocarbons (C6-C28)

DRO - Diesel Range Organics

SAR - Sodium Adsorption Ratio



TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 123-13596)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

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				
Anthracene (mg/kg)	1000				
Benzo (a) anthracene (mg/kg)	0.22				
Benzo (b) fluoranthene (mg/kg)	0.22				
Benzo (k) fluoranthene (mg/kg)	2.2				
Benzo (a) pyrene (mg/kg)	0.022				
Chrysene (mg/kg)	22				
Dibenz (a,h) anthracene (mg/kg)	0.022				
Fluoranthene (mg/kg)	1000				
Fluorene (mg/kg)	1000				
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22				
Naphthalene (mg/kg)	23				
Pyrene (mg/kg)	1000				

Notes: < - less than stated laboratory reporting limit

Bold numbers indicate result equalled or exceeded standard.

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

GRO - Gasoline Range Organics

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

mg/kg - milligrams per kilogram

su - standard pH units

TPH - Total Petroleum Hydrocarbons (C6-C28)

DRO - Diesel Range Organics

SAR - Sodium Adsorption Ratio



TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 123-13596)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

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				
Anthracene (mg/kg)	1000				
Benzo (a) anthracene (mg/kg)	0.22				
Benzo (b) fluoranthene (mg/kg)	0.22				
Benzo (k) fluoranthene (mg/kg)	2.2				
Benzo (a) pyrene (mg/kg)	0.022				
Chrysene (mg/kg)	22				
Dibenz (a,h) anthracene (mg/kg)	0.022				
Fluoranthene (mg/kg)	1000				
Fluorene (mg/kg)	1000				
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22				
Naphthalene (mg/kg)	23				
Pyrene (mg/kg)	1000				

Notes: < - less than stated laboratory reporting limit

Bold numbers indicate result equalled or exceeded standard.

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

GRO - Gasoline Range Organics

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

mg/kg - milligrams per kilogram

su - standard pH units

TPH - Total Petroleum Hydrocarbons (C6-C28)

DRO - Diesel Range Organics

SAR - Sodium Adsorption Ratio



TABLE 2
GROUNDWATER ANALYTICAL RESULTS AND FIELD PARAMETERS
WACKER 2, 22-10, 10D (API No. 05-123-13596)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Depth to Water (ft btoc)
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
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
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
BH04	06/15/2010	200	220	7.2	430	27.79
BH04R	04/29/2011	Dry - 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
Basic Standards for Groundwater:		5	560	700	1400	

Notes:

< - less than

ug/L - micrograms per Liter

NA - Not Analyzed/Not Available

NM - Not measured

API - American Petroleum Institute

ft btoc - feet below top of casing

Basic Standards for Groundwater are taken from the Colorado Department of Health and Environment - Water Quality Control Commission Regulation 41, effective 4/1/2009.

Bold numbers indicate result equaled or exceeded standard.



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 black ink, appearing to be 'PS', with a long horizontal flourish extending to the right.

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

2006086

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

Client: LT Environmental, Inc. Project Manager: Brian Dodek
Address: 4600 West 60th Avenue E-Mail: bfdodek@ltenv.com
City/State/Zip: Arvada, CO 80003 Project Name: Wacker 2, 10D, 22-10
Phone: (303) 433-9788 Fax: (303) 433-1432 Project Number: PDC 10016.02
Sampler Name: Devin Givita

Page / of /

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 Naphtalene
BH01 - 22'	6-14-10	0950	1	X				X											
BH02 - 35'		1115																	
BH03 - 32.5'		1335																	
BH04 - 30'		1500																	
BH05 - 20'		1650																	
BH01	6-15-10	1200	3	X															
BH02		1325																	
BH03		1400																	
BH04		1435																	
BH05		1240																	
Relinquished by: Devin Givita 6-15-10		Date/Time:		Received by: [Signature]		Date/Time: 6-15-10 1700		Turn Around Time (Check):		Same Day		72 Hours		Standard		Notes:			
Relinquished by:		Date/Time:		Received in Lab by:		Date/Time:		Sample Integrity:		Temperature Upon Receipt: 5.3		Intact: Yes No							

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
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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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
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

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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	"	"	"	"	"	"	
<i>o</i> -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

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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

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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

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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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		110 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	83.9-116		"	"	"	"	

Summit Scientific

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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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.4 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.9-116		"	"	"	"	

Summit Scientific

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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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70.4-127		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	85.7-111		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	83.9-116		"	"	"	"	

Summit Scientific

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 0061606 - EPA 3550A

Blank (0061606-BLK1)				Prepared & Analyzed: 06/16/10						
C10-C28 (DRO)	ND	50	mg/kg							
<i>Surrogate: o-Terphenyl</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>95.6</i>	<i>88.8-124</i>			
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	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.7</i>	<i>70.4-127</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.5</i>	<i>85.7-111</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.1</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>83.9-116</i>				

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		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>70.4-127</i>				
<i>Surrogate: Toluene-d8</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>85.7-111</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>83.9-116</i>				

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		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>70.4-127</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>85.7-111</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>83.9-116</i>				

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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>70.4-127</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>85.7-111</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>83.9-116</i>			

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>70.4-127</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>85.7-111</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>83.9-116</i>			

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.1</i>		<i>"</i>	<i>40.0</i>		<i>115</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>39.3</i>		<i>"</i>	<i>40.0</i>		<i>98.2</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>41.0</i>		<i>"</i>	<i>40.0</i>		<i>103</i>	<i>79.6-120</i>			

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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.4</i>		<i>"</i>	<i>40.0</i>	<i>116</i>		<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.5</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.8</i>		<i>"</i>	<i>40.0</i>	<i>99.4</i>		<i>79.6-120</i>			

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.6</i>		<i>"</i>	<i>40.0</i>	<i>119</i>		<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.5</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.9</i>		<i>"</i>	<i>40.0</i>	<i>99.8</i>		<i>79.6-120</i>			

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.7</i>		<i>"</i>	<i>40.0</i>	<i>124</i>		<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.3</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>40.6</i>		<i>"</i>	<i>40.0</i>	<i>101</i>		<i>79.6-120</i>			

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.8</i>		<i>"</i>	<i>40.0</i>		<i>115</i>	<i>74-135</i>				
<i>Surrogate: Toluene-d8</i>	<i>40.1</i>		<i>"</i>	<i>40.0</i>		<i>100</i>	<i>84.3-112</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.3</i>		<i>"</i>	<i>40.0</i>		<i>98.3</i>	<i>79.6-120</i>				

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 2-Fluorophenol</i>	879		"	3330	26.4	20-121				
<i>Surrogate: Phenol-d6</i>	963		"	3330	28.9	24-113				
<i>Surrogate: Nitrobenzene-d5</i>	1700		"	3330	51.0	23-120				
<i>Surrogate: 2-Fluorobiphenyl</i>	1840		"	3330	55.2	30-115				
<i>Surrogate: 2,4,6-Tribromophenol</i>	1020		"	6670	15.3	20-85.7				
<i>Surrogate: Terphenyl-d14</i>	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

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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 2-Fluorophenol</i>	822		"	3330		24.7	20-121			
<i>Surrogate: Phenol-d6</i>	920		"	3330		27.6	24-113			
<i>Surrogate: Nitrobenzene-d5</i>	1740		"	3330		52.2	23-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	1910		"	3330		57.4	30-115			
<i>Surrogate: 2,4,6-Tribromophenol</i>	1170		"	6670		17.5	20-85.7			
<i>Surrogate: Terphenyl-d14</i>	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	
<i>Surrogate: 2-Fluorophenol</i>	814		"	3330		24.4	20-121			
<i>Surrogate: Phenol-d6</i>	980		"	3330		29.4	24-113			
<i>Surrogate: Nitrobenzene-d5</i>	1800		"	3330		54.1	23-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	1970		"	3330		59.2	30-115			
<i>Surrogate: 2,4,6-Tribromophenol</i>	1140		"	6670		17.0	20-85.7			
<i>Surrogate: Terphenyl-d14</i>	7170		"	6670		107	20-137			

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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
<i>Surrogate: 2-Fluorophenol</i>	<i>801</i>		<i>"</i>	<i>3330</i>		<i>24.0</i>	<i>20-121</i>		
<i>Surrogate: Phenol-d6</i>	<i>968</i>		<i>"</i>	<i>3330</i>		<i>29.0</i>	<i>24-113</i>		
<i>Surrogate: Nitrobenzene-d5</i>	<i>1780</i>		<i>"</i>	<i>3330</i>		<i>53.3</i>	<i>23-120</i>		
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1980</i>		<i>"</i>	<i>3330</i>		<i>59.5</i>	<i>30-115</i>		
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1170</i>		<i>"</i>	<i>6670</i>		<i>17.5</i>	<i>20-85.7</i>		
<i>Surrogate: Terphenyl-d14</i>	<i>7210</i>		<i>"</i>	<i>6670</i>		<i>108</i>	<i>20-137</i>		

Summit Scientific

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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

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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 black ink, appearing to be 'PS', with a long horizontal flourish extending to the right.

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

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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

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

Page 1 of 2

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

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	SAR										
S01	6/24/10		1																									
S02			1																									
S03			1																									
S04			1																									
S05			1																									
S06			1																									
S07			1																									
S08			1																									
S09			1																									
S10			1																									
Relinquished by:	Date/Time:	Received by:		Date/Time:	Received by:		Date/Time:	Received in Lab by:		Date/Time:	Turn Around Time (Check):		Sample Integrity:		Temperature Upon Receipt:		Inact:											
	1700 6/24/10	6/24/10		6/24/10	6/24/10		6/24/10				72 Hours Standard		Yes		54		No											





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: <i>o</i> -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		"	"	"	"	

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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		"	"	"	"	

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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		"	"	"	"	

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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		"	"	"	"	

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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		"	"	"	"	

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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: <i>o</i> -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		"	"	"	"	

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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: <i>o</i> -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		"	"	"	"	

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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		"	"	"	"	

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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: <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	06/26/10	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		"	"	"	"	

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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: <i>o</i> -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

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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: <i>o</i> -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

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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 Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 0062502 - EPA 3550A

Blank (0062502-BLK1)				Prepared & Analyzed: 06/25/10							
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	<i>11.9</i>		<i>"</i>	<i>12.5</i>		<i>95.5</i>	<i>88.8-124</i>				
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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.5</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>79.6-120</i>			

LCS (0062503-BS1)

Prepared & Analyzed: 06/25/10

Benzene	0.0789	0.0050	mg/kg	0.100		78.9	70.2-125	2.40	11.1	
Toluene	0.0774	0.0050	"	0.100		77.4	74-123	2.94	10.9	
Ethylbenzene	0.0830	0.0050	"	0.100		83.0	70-130	3.13	20	
m,p-Xylene	0.152	0.010	"	0.200		76.0	70-130	3.36	20	
o-Xylene	0.0772	0.0050	"	0.100		77.2	70-130	2.91	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>79.6-120</i>			

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.4</i>	<i>79.6-120</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 10016.05
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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>79.6-120</i>			

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>74-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>84.3-112</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0385</i>		<i>"</i>	<i>0.0400</i>		<i>96.2</i>	<i>79.6-120</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 10016.05
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

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

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>109 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>96.7 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98.9 %</i>	<i>80.8-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	



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 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 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		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 Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>	<i>108</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.2</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.7</i>	<i>80.8-120</i>					

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		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.6</i>		<i>"</i>	<i>13.3</i>	<i>110</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>	<i>98.5</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>	<i>96.7</i>	<i>80.8-120</i>					

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		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.5</i>		<i>"</i>	<i>13.3</i>	<i>109</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>	<i>98.9</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.4</i>	<i>80.8-120</i>					



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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.7</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.0</i>	<i>80.8-120</i>			
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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.5</i>		<i>"</i>	<i>13.3</i>		<i>109</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.4</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.1</i>	<i>80.8-120</i>			



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

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>104 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>97.4 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>80.8-120</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 10016.02
 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
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.5 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		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					

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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.3</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.8</i>	<i>80.8-120</i>			

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.6</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>80.8-120</i>			

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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

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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

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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

Summit Scientific

R106147

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: J 1001

Project Manager: Brian Dodek
E-Mail: bdodek@henv.com
Project Name: Wacker 2, 10D, 22-10
Project Number: 1001

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	GBTX	BTEX		Table 9.10 Full	Table 9.10 Short	PH / EC
BH01	6-22-11	1000	3	X				X										
BH03		1000	3	X				X										
MW02R		1040	3	X				X										
MW05R		1100	3	X				X										
MW04R																		Dry Not Sampled

Relinquished by: <i>[Signature]</i>	Date/Time: 6-22-11 5pm	Received by: <i>[Signature]</i>	Date/Time: 6-22-11
Relinquished by:	Date/Time:	Relinquished by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

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

Sample Integrity:	Temperature Upon Receipt: 5.0
Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

Notes:

www.s2scientific.com



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
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>	<i>57.9-139</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>91.7 %</i>	<i>83.1-115</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.8 %</i>	<i>80.8-120</i>		"	"	"	"	

Summit Scientific

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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 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 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.5 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.9 %	80.8-120		"	"	"	"	

Summit Scientific

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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 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 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.1 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	80.8-120		"	"	"	"	

Summit Scientific

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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 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 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	80.8-120		"	"	"	"	

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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 Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

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				

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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.4</i>		<i>"</i>	<i>13.3</i>		<i>116</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.8</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>80.8-120</i>			

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.2</i>		<i>"</i>	<i>13.3</i>		<i>114</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.1</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.5</i>	<i>80.8-120</i>			

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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

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