



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:

☒ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No: 1761280

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

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.):		<u>Condensate and Produced Water</u>	
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		If yes, attach evaluation. Groundwater 25 feet below ground surface.	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.):		<u>Agriculture</u>	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan:		<u>Colombo clay loam, 1 to 3 percent slopes/Nunn clay loam, 1 to 3 percent slopes</u>	
Potential receptors (water wells within 1/4 mi, surface waters, etc.):		<u>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).</u>	
Description of Impact (if previously provided, refer to that form or document):			
Impacted Media (check):	Extent of Impact:	How Determined:	
<input checked="" type="checkbox"/> Soils	<u>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			

REMEDIALATION 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.

State of Colorado
Oil and Gas Conservation Commission

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



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:

Axelsson

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? ☒ 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

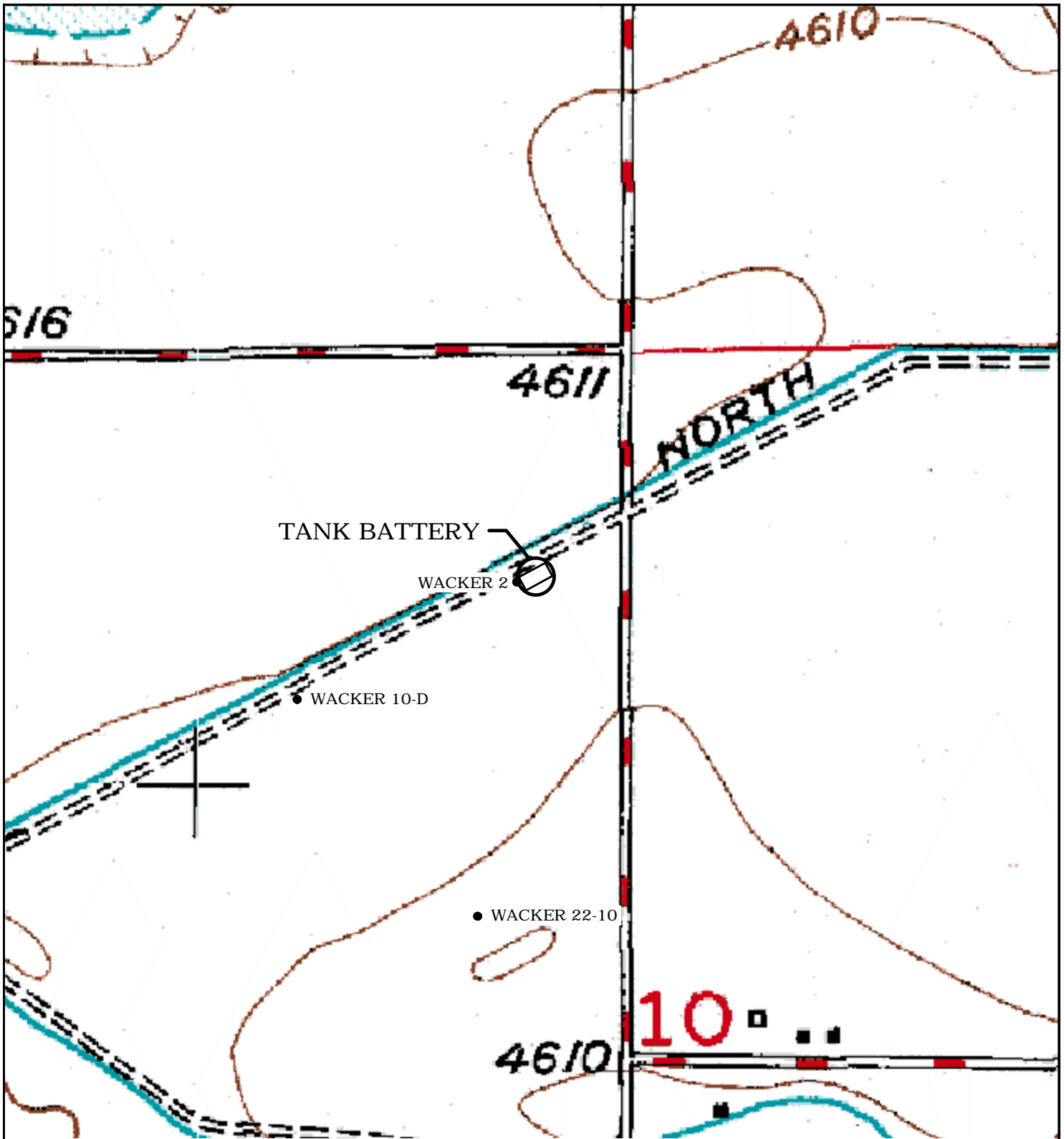
Date Site Investigation Began:	<u>6/17/2010</u>	Date Site Investigation Completed:	<u>TBD</u>	Remediation Plan Submitted:	<u>8/12/2011</u>
Remediation Start Date:	<u>6/24/2010</u>	Anticipated Completion Date:	<u>NA</u>	Actual Completion Date:	<u>TBD</u>

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

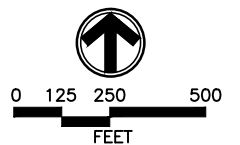
Signed:  Title: Environmental Field Coordinator Date: 8/12/2011

OGCC Approved:  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



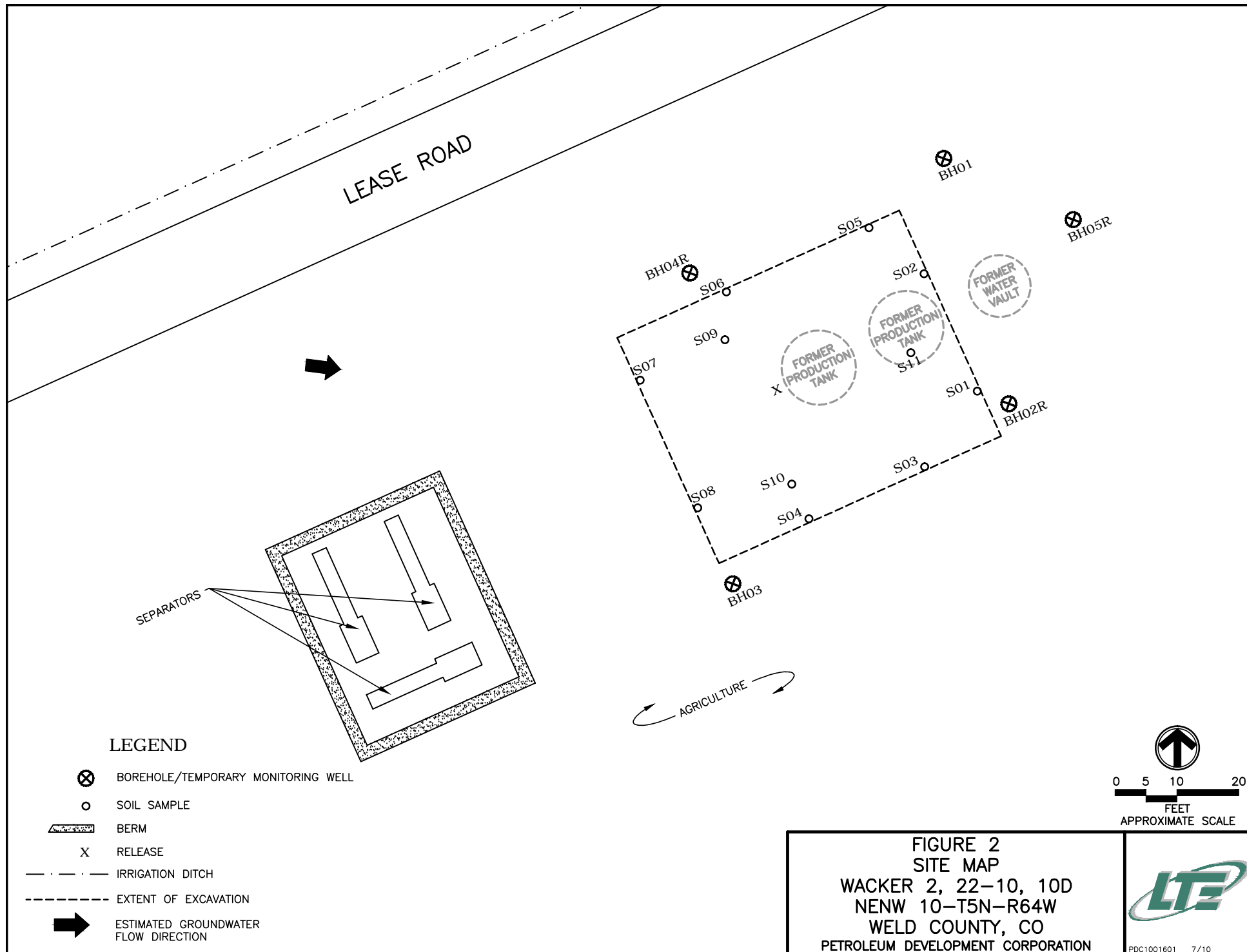


TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
WACKER 2, 22-10, 10D (API No. 123-13596)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

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

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

ANALYTICAL REPORT FOR SAMPLES

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

Summit Scientific

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



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

Summit Scientific
S₂ 2006086

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

Page 1 of 1

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

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative	Matrix	Analyze For:	Special Instructions
BH01 - 22'	6-14-10	0950	1	X	Air - Canister Serial #	PH / EC Table 9.10 Short Table 9.10 Full BTEX GBTEX DRO Other (Specify)	X SAR Naphthalene X PAHS
BH02 - 25'	↓	1115	↓	X	Soil		
BH03 - 22.5'	↓	1335	↓	X	Groundwater		
BH04 - 20'	↓	1500	↓	X	Other (Specify)		
BH05 - 20'	↓	1650	↓	X			
BH01	6-15-10	1200	3	X			
BH02	↓	1325	↓	X			
BH03	↓	1400	↓	X			
BH04	↓	1435	↓	X			
BH05	↓	1240	↓	X			
Relinquished by: <i>Devin Givula</i>	Date/Time: 6-15-10	Received by: <i>B. Dodek</i>	Date/Time: 6-15-10 1700	Turn Around Time (Check) <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 72 Hours Standard <input type="checkbox"/> 48 Hours	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

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	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

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

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

Summit Scientific

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



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH03@22.5'
R006086-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

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

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

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

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

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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@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: o-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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<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

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



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/24/10 14:38

BH03
R006086-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Summit Scientific

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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

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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
R006086-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Summit Scientific

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0061606 - EPA 3550A

Blank (0061606-BLK1)

Prepared & Analyzed: 06/16/10

C10-C28 (DRO) ND 50 mg/kg

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

LCS (0061606-BS1)

Prepared & Analyzed: 06/16/10

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

LCS Dup (0061606-BSD1)

Prepared & Analyzed: 06/16/10

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

Matrix Spike (0061606-MS1)

Source: R006086-02

Prepared & Analyzed: 06/16/10

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

Matrix Spike Dup (0061606-MSD1)

Source: R006086-02

Prepared & Analyzed: 06/16/10

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

Summit Scientific

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



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

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

Reported:
06/24/10 14:38

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

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

Batch 0061605 - EPA 5030 Water MS

Blank (0061605-BLK1)

Prepared & Analyzed: 06/16/10

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

LCS (0061605-BS1)

Prepared & Analyzed: 06/16/10

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

LCS Dup (0061605-BSD1)

Prepared & Analyzed: 06/16/10

Benzene	32.7	1.0	ug/l	33.3		98.2	64.2-127	1.51	10.9	
Toluene	32.6	1.0	"	33.3		97.7	66.4-125	1.58	11.3	
Ethylbenzene	31.8	1.0	"	33.3		95.3	70-130	0.505	20	
m,p-Xylene	60.9	2.0	"	66.7		91.4	70-130	0.692	20	
o-Xylene	27.2	1.0	"	33.3		81.6	70-130	2.68	20	
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	70.4-127			
Surrogate: Toluene-d8	13.6		"	13.3		102	85.7-111			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	83.9-116			

Summit Scientific

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0061605 - EPA 5030 Water MS

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

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

Batch 0061607 - EPA 5030 Soil MS

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

Summit Scientific

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



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

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

Reported:
06/24/10 14:38

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

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

Batch 0061607 - EPA 5030 Soil MS

LCS (0061607-BS1)

Prepared & Analyzed: 06/16/10

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

LCS Dup (0061607-BSD1)

Prepared & Analyzed: 06/16/10

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

Matrix Spike (0061607-MS1)

Source: R006086-02

Prepared & Analyzed: 06/16/10

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

Summit Scientific

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0061607 - EPA 5030 Soil MS

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

Summit Scientific

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0062101 - EPA 3550A

Blank (0062101-BLK1)

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

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

Surrogate: 2-Fluorophenol	879	"	3330	26.4	20-121
Surrogate: Phenol-d6	963	"	3330	28.9	24-113
Surrogate: Nitrobenzene-d5	1700	"	3330	51.0	23-120
Surrogate: 2-Fluorobiphenyl	1840	"	3330	55.2	30-115
Surrogate: 2,4,6-Tribromophenol	1020	"	6670	15.3	20-85.7
Surrogate: Terphenyl-d14	7480	"	6670	112	20-137

LCS (0062101-BS1)

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

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

Summit Scientific

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0062101 - EPA 3550A

LCS (0062101-BS1)

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

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

Matrix Spike (0062101-MS1)

Source: R006091-04

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

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

Summit Scientific

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0062101 - EPA 3550A

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

Summit Scientific

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 27, 2010

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

Enclosed are the results of analyses for samples received by Summit Scientific on 06/24/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

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

Project Number: PDC 10016.05
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 2004112.1

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
City/State/Zip: Arvada, CO 80003 E-Mail: bdodek@ltenv.com
Phone: (303) 433-9788 Fax: (303) 433-1432 Project Name: Wacker 2, 10D, 22-10
Sampler Name: Burkholder Project Number: PDC 10016.05

Page 1 of 2

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:						Special Instructions	Notes
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO/GRO	GBTEX	BTEX	Table 9.10 Full	Table 9.10 Short	PH / EC		
S01	6/24/10		1																
S02																			
S03																			
S04																			
S05																			
S06																			
S07																			
S08																			
S09																			
S10																			
Relinquished by:	Date/Time:	Date/Time:		Received by:		Date/Time:		Turn Around Time (Check)		Sample Day		72 Hours		Standard		Sample Integrity:		Temperature Upon Receipt: 54	
Relinquished by:	Date/Time:	Date/Time:		Received by:		Date/Time:		Received in Lab by:		Date/Time:		Inact: 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 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

Summit Scientific 2006.141.2-

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303-277-9310 ♦ 303-277-9531 Fax

Page 2 of 2

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name: Burkwal

Project Manager: Brian Dodek

F-Mail: bdodek@llenv.com

Project Name: Wicklow 2, 22-10-10

Project Number: P001001005

[illegible]

Journal of Interpersonal Violence 28(12)

Summit Scientific

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



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

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

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

S01
R006142-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

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

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

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

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

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Summit Scientific

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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		"	"	"	"	

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

S03
R006142-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

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

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

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

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

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Summit Scientific

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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		"	"	"	"	

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

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		"	"	"	"	

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

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		"	"	"	"	

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

S08
R006142-08 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

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

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

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

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

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Summit Scientific

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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: o-Terphenyl		108 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Summit Scientific

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

Batch 0062502 - EPA 3550A

Blank (0062502-BLK1)

Prepared & Analyzed: 06/25/10

C10-C28 (DRO) ND 50 mg/kg

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

LCS (0062502-BS1)

Prepared & Analyzed: 06/25/10

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

LCS Dup (0062502-BSD1)

Prepared & Analyzed: 06/25/10

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

Matrix Spike (0062502-MS1)

Source: R006142-01

Prepared & Analyzed: 06/25/10

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

Matrix Spike Dup (0062502-MSD1)

Source: R006142-01

Prepared & Analyzed: 06/25/10

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

Summit Scientific

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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

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

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

Batch 0062503 - EPA 5030 Soil MS

Blank (0062503-BLK1)

Prepared & Analyzed: 06/25/10

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400	98.4	74-135				
Surrogate: Toluene-d8	0.0386		"	0.0400	96.5	84.3-112				
Surrogate: 4-Bromofluorobenzene	0.0418		"	0.0400	105	79.6-120				

LCS (0062503-BS1)

Prepared & Analyzed: 06/25/10

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

LCS Dup (0062503-BSD1)

Prepared & Analyzed: 06/25/10

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

Summit Scientific

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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

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

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

Batch 0062503 - EPA 5030 Soil MS

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

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

Summit Scientific

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



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

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

Project Number: PDC 10016.05
Project Manager: Brian Dodek

Reported:
06/27/10 15:17

Notes and Definitions

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

Summit Scientific

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

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

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



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

Project: PDC - Wacker 10D, 2D, 22-10
Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

BH03
R104002-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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



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

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

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1040107 - EPA 5030 Water MS

Blank (1040107-BLK1)

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

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

LCS (1040107-BS1)

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

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

LCS Dup (1040107-BSD1)

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

Benzene	28.1	1.0	ug/l	33.3		84.4	60.1-131	1.31	10.9	
Toluene	32.4	1.0	"	33.3		97.1	65.9-127	0.371	11.3	
Ethylbenzene	34.8	1.0	"	33.3		104	65.1-129	0.886	20	
m,p-Xylene	73.1	2.0	"	66.7		110	66.8-127	1.65	20	
o-Xylene	34.9	1.0	"	33.3		105	61.2-120	1.54	20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.4	80.8-120			

Summit Scientific

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



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

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

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

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

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

Batch 1040107 - EPA 5030 Water MS

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

Summit Scientific

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



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

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

Project Number: PDC 10016
Project Manager: Aimee Cole

Reported:
04/04/11 10:22

Notes and Definitions

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 30, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

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

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

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

ANALYTICAL REPORT FOR SAMPLES

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

Summit Scientific

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

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



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

BH05R
R104177-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

BH02R
R104177-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

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

Reported:
06/30/11 10:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1050401 - EPA 5030 Water MS

Blank (1050401-BLK1)

Prepared & Analyzed: 05/04/11

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

LCS (1050401-BS1)

Prepared & Analyzed: 05/04/11

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

LCS Dup (1050401-BSD1)

Prepared & Analyzed: 05/04/11

Benzene	35.1	1.0	ug/l	33.3	105	60.1-131	0.485		10.9	
Toluene	33.2	1.0	"	33.3	99.7	65.9-127	0.604		11.3	
Ethylbenzene	34.7	1.0	"	33.3	104	65.1-129	1.40		20	
m,p-Xylene	68.1	2.0	"	66.7	102	66.8-127	0.103		20	
o-Xylene	33.7	1.0	"	33.3	101	61.2-120	1.16		20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3	109	57.9-139				
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.5	80.8-120				

Summit Scientific

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



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

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

Reported:
06/30/11 10:11

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

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

Batch 1050401 - EPA 5030 Water MS

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

Summit Scientific

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



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:11

Notes and Definitions

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

Summit Scientific

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

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 30, 2011

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

ANALYTICAL REPORT FOR SAMPLES

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

Summit Scientific

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



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

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

Project Number: PDC 10016.02
Project Manager: Brian Dodek

Reported:
06/30/11 10:08

BH01
R106147-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	80.8-120		"	"	"	"	

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

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

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

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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

BH02R
R106147-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

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

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

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

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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

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

Batch 1062407 - EPA 5030 Water MS

Blank (1062407-BLK1)

Prepared & Analyzed: 06/24/11

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

LCS (1062407-BS1)

Prepared & Analyzed: 06/24/11

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

LCS Dup (1062407-BSD1)

Prepared & Analyzed: 06/24/11

Benzene	28.6	1.0	ug/l	33.3	85.9	60.1-131	0.244		10.9	
Toluene	31.2	1.0	"	33.3	93.8	65.9-127	0.447		11.3	
Ethylbenzene	32.3	1.0	"	33.3	97.0	65.1-129	3.91		20	
m,p-Xylene	67.6	2.0	"	66.7	101	66.8-127	2.28		20	
o-Xylene	31.9	1.0	"	33.3	95.8	61.2-120	2.60		20	
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3	116	57.9-139				
Surrogate: Toluene-d8	12.4		"	13.3	93.0	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3	96.5	80.8-120				

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

Batch 1062407 - EPA 5030 Water MS

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

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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

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

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