



August 24, 2010

Mr. Andrew Richmond
East Resources, Inc.
370 Interlocken Blvd., Suite 550
Broomfield, CO 80021

**RE: First Quarter 2010 Monitoring Report
WT Durham #4 Flowline Release
Moffat County, Colorado**

Dear Mr. Richmond:

LT Environmental, Inc. (LTE) was retained by East Resources, Inc. (ERI) to install post-remediation groundwater monitoring wells and to conduct sampling activities at the WT Durham #4 Flowline Release (Site). Monitoring well installation activities and groundwater sampling occurred on July 13, 2010 and July 14, 2010, respectively. Site history and remediation activities were described in the Form 27 Site Investigation and Remediation Workplan submitted to the Colorado Oil and Gas Conservation Commission (COGCC) on June 17, 2010. This well installation and groundwater monitoring event constitutes the first post remediation performance monitoring event. A Site Location Map is provided as Figure 1.

Monitoring Well Installation

LTE personnel installed three additional monitoring wells (MW05, MW06, and MW07) on July 13, 2010 to further define the extent of groundwater impacts. The monitoring wells were installed using a hand auger. Monitoring wells MW05, MW06 and MW07 were advanced to a total depth of 8.5 feet (ft) below ground surface (bgs). Monitoring wells were constructed of 2-inch diameter, 0.010-inch slotted screen and schedule 40, poly vinyl chloride (PVC) casing. Boreholes were filled with 10-20 silica sand from total depth to one foot above the screened interval. Bentonite chips were then placed from the top of the sand pack to ground surface and hydrated. Well logs are provided as Attachment 1.

In order to develop the well, ten casing volumes of groundwater were bailed were purged from the well to remove fine grain sediments from the vicinity of the well screens. This will promote water to flow freely into the well from the formation.

Groundwater Sampling Procedures

Seven groundwater monitoring wells (MW01 through MW07) were sampled at the Site on July 14, 2010 to determine the current plume extent and magnitude. Prior to sampling each well, the depth to groundwater was measured and recorded to calculate potentiometric surfaces and purge volumes. During the July 2010 sampling event, the depths to static groundwater level ranged from 2.70 feet



below top of casing (BTOC) in MW05 to 4.21 feet BTOC in MW01 (Table 1). Based on the topographic map and surrounding areas groundwater is anticipated to be flowing northeast towards Waddle Creek.

Each well was purged of three casing volumes prior to collection of groundwater samples. Groundwater samples were collected from the well points utilizing disposable 1.6-inch diameter polyethylene bailers to collect the groundwater samples prior to placement into laboratory prepared sample bottles. Groundwater samples were collected in 40-milliliter vials, placed on ice, and delivered under chain-of-custody (COC) protocol to Origins Laboratory located in Denver, Colorado. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency Method 8260B.

Groundwater Analytical Results

The Colorado Department of Public Health and Environmental (CDPHE) Water Quality Control Commission (WQCC) has established Regulation 41 - The Basic Standards for Groundwater for BTEX of 5.0 micrograms per liter (ug/L) for benzene, 560 ug/L for toluene, 700 ug/L for ethylbenzene, and 1,400 ug/L for total xylenes. Table 1 summarizes groundwater analytical results for samples collected during all monitoring events. The laboratory analytical report, laboratory quality assurance/quality control data, and COC documentation are attached.

Seven groundwater samples were collected and submitted to Origins Laboratory for BTEX analysis during the July 2010 sampling event. Groundwater analytical results indicated that benzene was detected above the CDPHE-WQCC Regulation 41 standard in monitoring wells MW01, MW06, and MW07, at concentrations of 9 ug/L, 1,520 ug/L, and 58.7 ug/L, respectively. BTEX compounds were not detected above the laboratory method detection limits or in compliance with CDPHE-WQCC Reg. 41 in the remaining samples. Groundwater analytical results for the July 2010 sampling event are summarized in Table 1.

Summary and Conclusions

As seen on Table 1, the benzene concentration in wells MW01, MW06, and MW07 exceed the CDPHE-WQCC Regulation 41 standard. Since the May 4, 2010 sampling event the benzene concentration in well MW01 has increased from 3.1 ug/L to 9 ug/L.

The groundwater data indicates the extent of impact has not been defined to the west, east or south of the release location. In order to determine the hydraulic gradient and groundwater flow direction at the Site, LTE will survey the top of casing elevations for the groundwater monitoring wells during the next quarterly sampling event. Once the flow direction has been determined, LTE will install additional groundwater monitoring wells upgradient, downgradient and cross-gradient of wells MW01, MW06, and MW07 to determine the extent of impact.



The next groundwater sampling event will be conducted in October 2010. Groundwater monitoring will continue to be conducted at the Site on a quarterly basis until site closure status is received from the COGCC.

LTE appreciates the opportunity to provide environmental services to ERI. Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "Asher Weinberg".

Asher Weinberg
Staff Environmental Scientist

A handwritten signature in black ink, appearing to read "John D. Peterson".

John D. Peterson, P.G.
Principal/Senior Geologist

Attachments

Figure 1: Site Location Map

Figure 2: Site Map

Table 1: Groundwater Analytical Data

Attachment 1: Well Logs

Attachment 2: Laboratory Analytical Reports

TABLE



TABLE 1
GROUNDWATER ANALYTICAL DATA
WT DURHAM #4
MOFFAT COUNTY, COLORADO
EAST RESOURCES, INC.

Well ID	Date	Depth to Water (ft btoc)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
MW01	5/4/10	3.52	3.1	<2	<2	<2
	7/14/10	4.21	9	<1	<1	<3
MW02	5/4/10	2.86	<2	<2	<2	<2
	7/14/10	3.65	<1	<1	<1	<3
MW03	5/4/10	3.30	<2	2	<2	3.3
	7/14/10	3.66	<1	<1	<1	<3
MW04	5/4/10	2.69	<2	2.4	<2	<2
	7/14/10	3.16	1.12	1.71	<1	<3
MW05	7/14/10	2.70	<1	<1	<1	<3
MW06	7/14/10	3.61	1,520	78.1	88.1	198.1
MW07	7/14/10	3.99	58.7	<1	1.52	8.16
GW01	5/11/10	-	1,370	1,730	72.3	752
GW02	5/18/10	-	332	319	12.8	258
CDPHE WQCC Reg 41			5	560	700	1,400

NOTES:

ft btoc - feet below top of casing

ug/L - micrograms per liter

< - indicates result is less than the stated laboratory method reporting limit

BOLD - indicates result is above the applicable standard

Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8260B

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment - Water Quality

Control Commission Regulation 41 covering Basic Standards for Groundwater



FIGURES



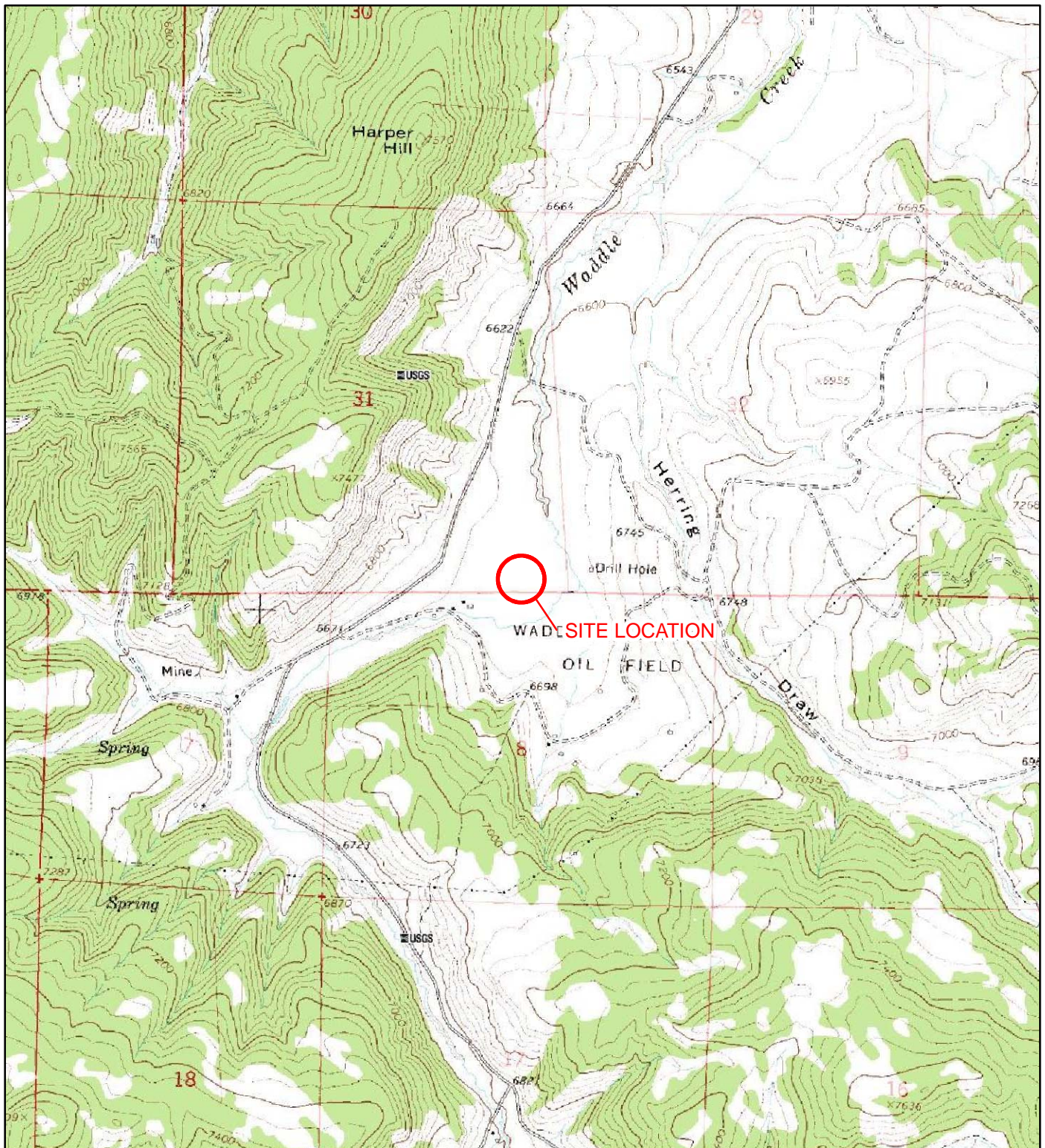


IMAGE COURTESY OF WWW.TERRASERVER.COM/USGS, 1966

LEGEND

○ SITE LOCATION

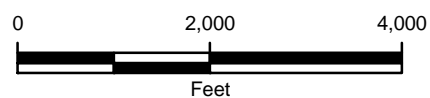
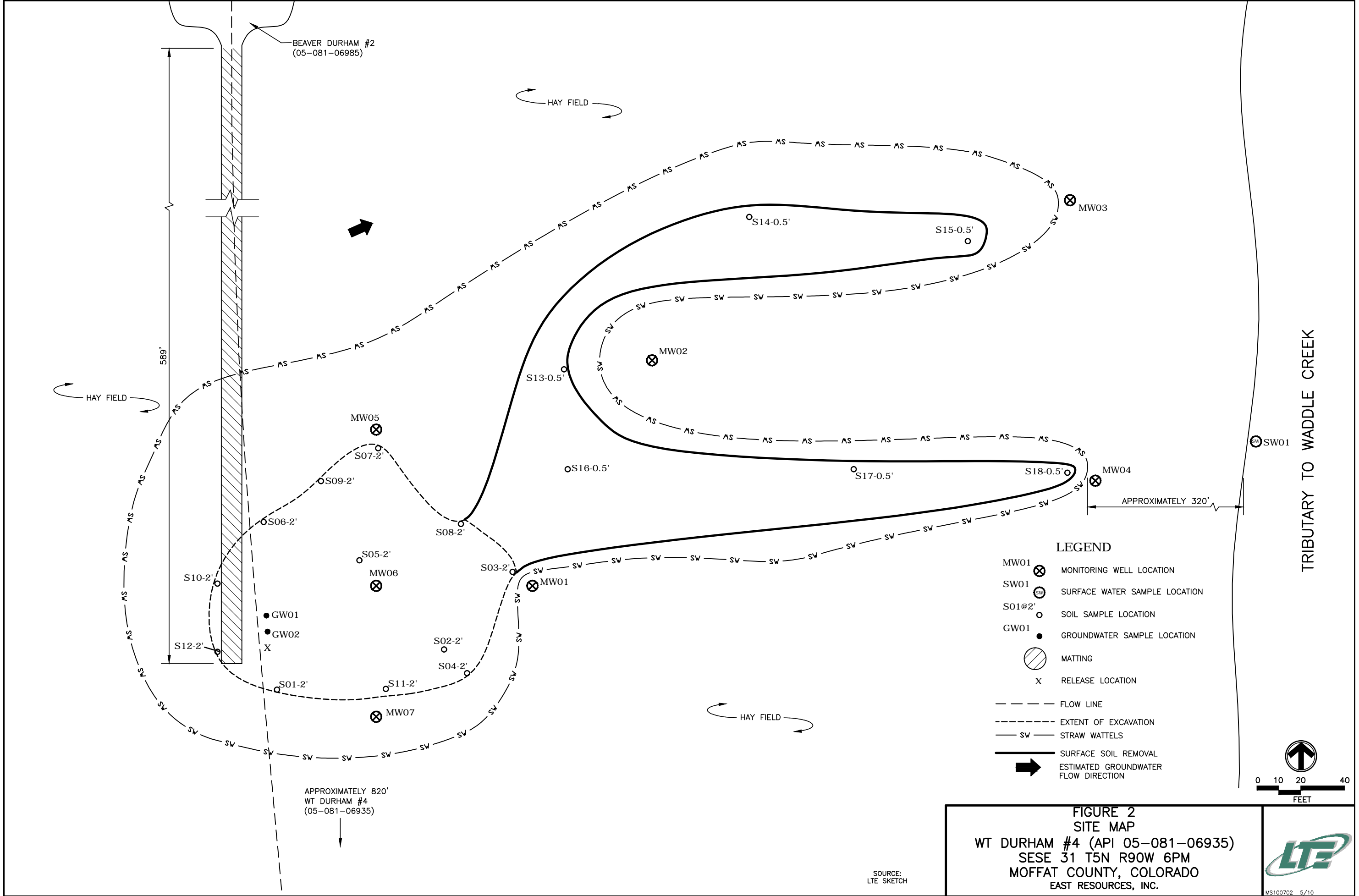


FIGURE 1
SITE LOCATION MAP
WT DURHAM #4 (API 05-081-06935)
SESE SEC 31 T5N R90W 6PM
MOFFAT COUNTY, CO
EAST RESOURCES, INC.





ATTACHMENT 1

WELL LOGS



Location Map:



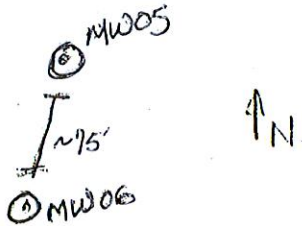
Compliance ■ Engineering ■ Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:	MW05	Project:	WT Durham #4
Date:	7/13/10	Project Number:	MS1007
Logged By:	AW	Drilled By:	AW
Drilling Method:	Hand Auger	Sampling Method:	NA
Seal:	bentonite chips	Grout:	NA
Elevation:		Detector:	mini-rae 2000
Gravel Pack:	10-20 Silica Sand	Diameter:	2"
Casing Type:	PVC	Length:	5'
Screen Type:	PVC	Slot:	0.010
		Hole Diameter:	~ 3 1/8"
		Total Depth:	8.5'
		Depth to Liquid:	
		Depth to Water:	~ 3.5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
	Moist to Saturated	0.0	NO	NA	0				
					2				
					4		CH	Inorganic Clay, High plasticity, no odors or staining Saturated at ~3.5' bgs	
					6				
					8				
					10				

Location Map:



Compliance ■ Engineering ■ Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW006	Project: WT Durham #4
Date: 7/13/10	Project Number: M51007
Logged By: AW	Drilled By: AW
Drilling Method: Hand Auger	Sampling Method: NA
Seal: bentonite Chips	Grout: NA
Casing Type: PVC	Diameter: 2"
Screen Type: PVC	Slot: 0.010
	Length: 5'
	Hole Diameter: ~3 1/8"
	Depth to Liquid: ~3.5'
	Total Depth: - 8.5'
	Depth to Water: ~3.5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				
					2				
					4				
					6		CH	Inorganic Clay High plasticity, slight staining odor from ~5' - 7' bgs	
					8				
					10				

Location Map:



Compliance • Engineering • Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: MW07	Project: WT Durham #4				
Date: 7/13/10	Project Number: MS1007				
Logged By: AW	Drilled By: AW				
Drilling Method: Hand Auger	Sampling Method: NA				
Seal: bentonite chips	Grout: NA				
Casing Type: PVC	Diameter: 2"	Length: 5'	Hole Diameter: ~3 1/8"	Depth to Liquid:	
Screen Type: PVC	Slot: 0.010	Diameter: 2"	Length: 5'	Total Depth: 8.5'	Depth to Water: ~3.5'

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				
					2				
					4				
					6		CH	Inorganic Clay High plasticity, Slight staining + odor from ~5.5' - 6.5' bgs	
					8				
					10				

ATTACHMENT 2
LABORATORY ANALYTICAL REPORT



CHEM SOLUTIONS



May 10, 2010

Andrew Richmond
East Resources Inc.
370 Interlocken Blvd., Suite 550
Broomfield, CO 80021

RE: ERI001

Dear Andrew:

Enclosed please find the analytical results for Project #MS1007 WT Durham #4 samples collected on 5/4-5/5/10.

The samples were analyzed for BTEX by EPA Method 8260B. The water sample results are reported in Table 1. The soil sample results are reported in Tables 2 and 3. The BTEX quality control results are summarized in Tables 4 and 5.

The soil samples were analyzed for TPH by EPA Method 8015 as set forth in Texas Method TNRCC 1005. Tables 6 and 7 contain the TPH results for the samples. The quality control results for TPH are summarized in Table 8.

Thank you for the opportunity to work on this project. Please call if you have any questions. The invoice will follow shortly.

Sincerely,



John Graves
Laboratory Director

5/10/10

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TABLE 1
WATER BTEX RESULTS
Project ID: ERI006

Client Project ID: MS1007, WT Durham #4
EPA Method: 8260B
Sample Matrix: Water
Units: ug/L (ppb)

Date Sampled: 5/4/10
Date Received: 5/4/10
Date Analyzed: 5/4/10

<u>Sample #</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Xylene</u>	<u>Surrogate % Recovery</u>
MW01	3.1	ND	ND	ND	99.8
MW02	ND	ND	ND	ND	101
MW03	ND	2.0	ND	3.3	101
SW01	ND	3.6	ND	7.5	101
MW04	ND	2.4	ND	ND	101
Blank	ND	ND	ND	ND	99.6
Reporting Limit	2	2	2	2	

ND = Not Detected.

5/10/10

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TABLE 2
SOIL BTEX RESULTS
Project ID: ERI001

Client Project ID: MS1007, WT Durham #4
EPA Method: 8260B
Sample Matrix: Soil
Units: mg/Kg (ppm)
Dry Weight

Date Sampled: 5/4/10
Date Received: 5/4/10
Date Analyzed: 5/4/10

<u>Sample #</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Xylene</u>	<u>Surrogate % Recovery</u>
SO1-2'	ND	ND	ND	0.0095	99.4
SO2-2'	0.40	0.45	0.0087	0.090	98.8
SO3-2'	ND	ND	ND	ND	105
Blank	ND	ND	ND	ND	96.8
Reporting Limit	0.005	0.005	0.005	0.005	

ND = Not Detected.

5/10/10

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TABLE 3
SOIL BTEX RESULTS
 Project ID: ERI001

Client Project ID: MS1007, WT Durham #4
 EPA Method: 8260B
 Sample Matrix: Soil
 Units: mg/Kg (ppm)
 Dry Weight

Date Sampled: 5/5/10
 Date Received: 5/5/10
 Date Analyzed: 5/5/10

<u>Sample #</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Xylene</u>	<u>Surrogate % Recovery</u>
SO4-2'	ND	ND	ND	ND	96.8
SO5-2'	0.21	0.21	ND	0.024	99.0
SO6-2'	ND	0.0053	ND	0.0095	94.2
SO7-2'	ND	ND	ND	ND	99.7
SO8-2'	ND	ND	ND	ND	101
SO9-2'	0.0059	0.066	0.0084	0.096	98.6
SO10-2'	ND	ND	ND	ND	96.0
SO11-2'	ND	ND	ND	ND	98.8
SO12-2'	ND	ND	ND	ND	97.8
Blank	ND	ND	ND	ND	99.9
Reporting Limit	0.005	0.005	0.005	0.005	

ND = Not Detected.

5/10/10

CHEMSOLUTIONS
TABLE 4
WATER BTEX QUALITY CONTROL RESULTS
Project ID: ERI001

Client Project ID: MS1007, WT Durham #4
EPA Method: 8260B
Sample Matrix: Water
Units: ug/L (ppb)

Date Sampled: 5/4/10
Date Received: 5/4/10
Date Analyzed: 5/4/10

<u>Sample #</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Xylene</u>	<u>Surrogate % Recovery</u>
MW02 Matrix Spike	98.9	91.5	96.1	286	NA
% Recovery	98.9	91.5	96.1	95.3	96.4
MW02 Matrix Spike Dupl.	93.2	93.3	94.2	282	NA
% Recovery	93.2	93.3	94.2	94.0	99.6
Relative % Difference	5.93	1.95	2.00	1.41	NA
LCS Spike	98.8	95.4	97.0	290	NA
% Recovery	98.8	95.4	97.0	96.7	103
Reporting Limit	2	2	2	2	

NA = Not Applicable.
ND = Not Detected.

5/10/10

CHEMSOLUTIONS
TABLE 5
SOIL BTEX QUALITY CONTROL RESULTS
Project ID: ERI001

Client Project ID: MS1007, WT Durham #4
EPA Method: 8260B
Sample Matrix: Soil
Units: mg/Kg (ppm)

Date Sampled: 5/4/10
Date Received: 5/4/10
Date Analyzed: 5/4/10

<u>Sample #</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Xylene</u>	<u>Surrogate % Recovery</u>
SO1-2' Matrix Spike	0.0969	0.0919	0.0992	0.293	NA
% Recovery	96.9	91.9	99.2	97.7	95.9
SO1-2' Matrix Spike Dupl.	0.105	0.0922	0.101	0.301	NA
% Recovery	105	92.2	101	100	97.3
Relative % Difference	8.02	0.33	1.80	2.69	NA
LCS Spike	0.0947	0.0948	0.0961	0.287	NA
% Recovery	94.7	94.8	96.1	95.7	101
Reporting Limit	0.005	0.005	0.005	0.005	

NA = Not Applicable.
ND = Not Detected.

5/10/10

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TABLE 6

TPH RESULTS

Project ID: ERI001

Client Project ID: MS1007, WT Durham #4

EPA Method: 8015

Sample Matrix: Soil

Units: mg/Kg (ppm), Dry Weight

Date Sampled: 5/4/10

Date Received: 5/4/10

Date Analyzed: 5/4/10

<u>Sample #</u>	<u>Gasoline Range Organics</u>	<u>Diesel Range Organics</u>	<u>Motor Oil Range Organics</u>	<u>Total Petroleum Hydrocarbons</u>	<u>1-chlorooctane Surrogate % Recovery</u>	<u>1-chlorooctadecane Surrogate % Recovery</u>
SO1-2'	ND	ND	ND	ND	86.2	84.6
SO2-2'	ND	ND	ND	ND	83.3	80.2
SO3-2'	ND	ND	ND	ND	84.4	83.1
Blank	ND	ND	ND	ND	74.4	72.8
Reporting Limit	20	20	20	20		

ND=Not Detected

5/10/10

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TABLE 7

TPH RESULTS

Project ID: ERI001

Client Project ID: MS1007, WT Durham #4

EPA Method: 8015

Sample Matrix: Soil

Units: mg/Kg (ppm), Dry Weight

Date Sampled: 5/5/10

Date Received: 5/5/10

Date Analyzed: 5/5/10

<u>Sample #</u>	<u>Gasoline Range Organics</u>	<u>Diesel Range Organics</u>	<u>Motor Oil Range Organics</u>	<u>Total Petroleum Hydrocarbons</u>	<u>1-chlorooctane Surrogate % Recovery</u>	<u>1-chlorooctadecane Surrogate % Recovery</u>
SO4-2'	ND	ND	ND	ND	84.1	81.2
SO5-2'	ND	ND	ND	ND	75.0	74.5
SO6-2'	ND	ND	ND	ND	86.3	86.4
SO7-2'	ND	ND	ND	ND	71.4	74.2
SO8-2'	ND	ND	ND	ND	84.3	83.9
SO9-2'	ND	ND	ND	ND	73.3	76.2
SO10-2'	ND	ND	ND	ND	79.5	76.1
SO11-2'	ND	ND	ND	ND	77.1	74.8
SO12-2'	ND	ND	ND	ND	88.9	90.9
Blank	ND	ND	ND	ND	74.4	72.8
Reporting Limit	20	20	20	20		

ND=Not Detected

5/10/10

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TABLE 8
TPH QUALITY CONTROL RESULTS
 Project ID: ERI001

Client Project ID: MS1007, WT Durham #4
 EPA Method: 8015
 Sample Matrix: Soil
 Units: mg/Kg (ppm), Dry Weight

Date Sampled: 5/4/10
 Date Received: 5/4/10
 Date Analyzed: 5/4/10

<u>Sample #</u>	<u>Gasoline Range Organics</u>	<u>Diesel Range Organics</u>	<u>Motor Oil Range Organics</u>	<u>Total Petroleum Hydrocarbons</u>	<u>1-chlorooctane Surrogate % Recovery</u>	<u>1-chlorooctadecane Surrogate % Recovery</u>
SO3-2' MS (250PPM)	251	285	NA	NA	NA	NA
% Recovery	100	114	NA	NA	92.6	78.1
SO3-2' MSD (250PPM)	242	283	NA	NA	NA	NA
% Recovery	96.8	113	NA	NA	98.1	86.1
% Relative Standard Deviation	3.65	0.70	NA	NA	NA	NA
LCS Spike (250PPM)	241	279	NA	NA	NA	NA
% Recovery	96.4	112	NA	NA	94.3	80.2
LCS Spike Dupl. (250PPM)	243	276	NA	NA	NA	NA
% Recovery	97.2	110	NA	NA	96.4	82.2
% Relative Standard Deviation	0.83	1.08	NA	NA	NA	NA
Reporting Limit	20	20	20	20	NA	NA

MS = Matrix Spike, MSD = Matrix Spike Duplicate, NA = Not Applicable.

March 1, 2010

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QUALITY CONTROL RECOVERY LIMITS

VOC EPA METHOD 8260B

SOIL MATRIX

<u>Analyte</u>	<u>LCS % Recovery Range</u>	<u>MS/MSD % Recovery Range</u>	<u>RPD</u>
Vinyl Chloride	61-136	61-136	20
1 Dichloroethene	69-135	75-135	15
Methyl t-Butyl Ether	60-135	59-144	15
Trans 1,2 Dichloroethene	70-132	84-132	10
Cis 1,2 Dichloroethene	69-132	80-140	10
1,1,1 Trichloroethane	64-139	78-130	10
Benzene	76-117	68-125	10
1,2 Dichloroethane	72-122	72-122	20
Trichloroethene	80-115	70-121	15
Toluene	82-112	56-125	15
1,1,2 Trichloroethane	67-126	58-134	10
Tetrachloroethene	55-129	46-143	20
Chlorobenzene	81-115	83-109	10
Ethyl Benzene	83-108	57-124	15
Xylene	81-115	63-120	10
1,4 Dioxane	74-123	74-123	15

<u>Surrogate Standard</u>	<u>% Recovery Range</u>
Dibromofluoromethane	60-142
Dichloroethane-D4	73-136
Toluene-D8	59-130
Bromofluorobenzene	62-129

March 1, 2010

CHEMSOLUTIONS
QUALITY CONTROL RECOVERY LIMITS

VOC EPA METHOD 8260B

WATER MATRIX

<u>Analyte</u>	<u>LCS % Recovery Range</u>	<u>MS/MSD % Recovery Range</u>	<u>RPD</u>
Vinyl Chloride	63-145	65-139	20
1 Dichloroethene	65-132	67-130	15
Methylene Chloride	75-128	75-128	15
Methyl t-Butyl Ether	65-136	75-132	15
Trans 1,2 Dichloroethene	79-124	81-122	10
1,1 Dichloroethane	72-140	72-140	10
Cis 1,2 Dichloroethene	82-120	82-121	10
1,1,1 Trichloroethane	79-124	79-124	10
Benzene	75-123	71-129	10
1,2 Dichloroethane	71-130	64-146	20
Trichloroethene	76-117	79-112	10
Toluene	76-115	74-120	10
1,1,2 Trichloroethane	69-127	79-124	10
Tetrachloroethene	68-124	69-123	15
Chlorobenzene	79-111	82-107	10
Ethyl Benzene	78-116	74-118	15
Xylene	77-115	69-124	10
1,4 Dioxane	74-123	74-123	15

<u>Surrogate Standard</u>	<u>% Recovery Range</u>
Dibromofluoromethane	69-131
Dichloroethane-D4	66-141
Toluene-D8	85-115
Bromofluorobenzene	69-130

March 4, 2010

CHEMSOLUTIONS

QUALITY CONTROL RECOVERY LIMITS

EPA METHOD 8015

TEXAS TPH METHOD TNRCC-1005

<u>Water Matrix</u>	<u>% Recovery Range</u>	<u>RPD</u>
Gasoline LCS/LCSD	36-117	20
Gasoline MS/MSD	36-117	20
Diesel LCS/LCSD	64-123	15
Diesel MS/MSD	57-126	20
1-Chlorooctane (Surrogate)	5-128	
1-Chlorooctadecane (Surrogate)	0-140	

<u>Soil Matrix</u>	<u>% Recovery Range</u>	<u>RPD</u>
Gasoline LCS/LCSD	64-120	15
Gasoline MS/MSD	67-124	15
Diesel LCS/LCSD	73-134	15
Diesel MS/MSD	47-160	15
1-Chlorooctane (Surrogate)	40-125	
1-Chlorooctadecane (Surrogate)	43-139	

CHEMSOLUTIONS

Chain of Custody

9606 S. Spruce Mountain Rd. Phone: 303-771-5570
 Larkspur, CO 80118 Fax: 303-771-5574
 E-mail: john@chemmobile.com

Client Name & Address: East Resources Inc. 370 Interlocken Blvd Ste 550 Broomfield, CO 80021 Contact Person: Andrew Richmond		Client Project Name & Location: WT Durham #4			ChemSolutions Project #: ERI001					
Phone #:					Location Received: on-site					
FAX #:		Client Project Number: MS1007			Custody Seals: n/a					
E-mail:		Invoice to:			Date/Time Refrigerated: Upon Receipt Temp:					
Sample ID	Date Sampled	Time Sampled	Matrix	# of Containers	Requested Analysis					Remarks
					BTEX	GRD	DRO			
MW01	5-4-10	8:45	W	4	X					
MW02		8:30		4	X					
MW03		8:20		4	X					
SW01		8:15		4	X					
MW04		12:30	↓	4	X					
S01-2'		1409	S	1	X	X				
S02-2'		1400		1	X	X				
S03-2'	↓	1419	↓	1	X	X				
Sampled and Relinquished by:		Date:	Time:	Received by:			Date:	Time:		
ask up		5/24/10	15:00	John A. Graves			5/4/10	1500		
Relinquished by:		Date:	Time:	Received by:			Date:	Time:		
Relinquished by:		Date:	Time:	Received by:			Date:	Time:		

CHEMSOLUTIONS

Chain of Custody

9606 S. Spruce Mountain Rd. Phone: 303-771-5570
 Larkspur, CO 80118 Fax: 303-771-5574
 E-mail: john@chemmobile.com

Client Name & Address: East Resources Inc.		Client Project Name & Location: WT Durham #4			ChemSolutions Project #: ERI001					
Contact Person: Andrew Richmond					Location Received: on-site					
Phone #:					Custody Seals: n/a					
FAX #:		Client Project Number: MS1007			Date/Time Refrigerated:					
E-mail:		Invoice to:			Upon Receipt Temp:					
Sample ID	Date Sampled	Time Sampled	Matrix	# of Containers	Requested Analysis					Remarks
					BTEX	TPH - Grav/Dec/loc				
S04-2'	5/5/10	905	S	1	X	X				
S05-2'	↓	11:18		1	X	X				
S06-2'		11:50		1	X	X				
S07-2'		1452		1	X	X				
S08-2'		1500		1	X	X				
S09-2'		1550 1505		1	X	X				
S10-2'		1513		1	X	X				
S11-2'		1546		1	X	X				
S12-2'		1554	↓	1	X	X				
Sampled and Relinquished by:		Date:	Time:	Received by:			Date:	Time:		
[Signature]		5/5/10	17:37	John Leaves			5/5/10	1737		
Relinquished by:		Date:	Time:	Received by:			Date:	Time:		
Relinquished by:		Date:	Time:	Received by:			Date:	Time:		



07/22/2010

LT Environmental, Inc.

Asher Weinberg

4600 West 60th Avenue

Arvada

CO

80003

Project Name- WT Durham #4

Project Number- MS1007

Attached are your analytical results for WT Durham #4 received by Origins Laboratory, Inc. July 15, 2010 9:00 am. This project is associated with Origins project number X007111-01 .

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all,

Origins Laboratory, Inc.

303.433.1322

o-squad@oelabinc.com



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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
MW01	X007111-01	Water	7/14/2010 9:41:00AM	07/15/2010 09:00
MW02	X007111-02	Water	7/14/2010 9:58:00AM	07/15/2010 09:00
MW03	X007111-03	Water	7/14/2010 10:16:00AM	07/15/2010 09:00
MW04	X007111-04	Water	7/14/2010 10:30:00AM	07/15/2010 09:00
MW05	X007111-05	Water	7/14/2010 8:43:00AM	07/15/2010 09:00
MW06	X007111-06	Water	7/14/2010 9:10:00AM	07/15/2010 09:00
MW07	X007111-07	Water	7/14/2010 9:22:00AM	07/15/2010 09:00

Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

www.originslaboratory.com

X007111

page ☐ of ☐

ORIGINS
LABORATORY, INC

Client: LT Environmental
Address: 830 Megan Ave Unit B
Telephone Number: 970 456-9207
Email Address: aweinberg@ltenv.com

Project Manager: Asher Weinberg
Project Name: WT Durham #4
Project Number: MS1007
Samples Collected By: AW

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
MW001	7/14/10	9:41	3	X				X				X	BTEX	1
MW002		9:58												2
MW003		10:16												3
MW004		10:30												4
MW005		8:43												5
MW006		9:10												6
MW007		9:22	✓											7
														8
														9
														10
Relinquished By: <i>Andy</i>	Date: 7/14/10	Time: 10:50	Time: 10:50	Received By: Fed Ex	Date: 7/15/10	Time: 9:00	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By: <i>Carla</i>	Date: <i>7/14/10</i>	Time: <i>10:50</i>	Time: <i>10:50</i>	Received By: <i>Carla Deffen</i>	Date: <i>7/15/10</i>	Time: <i>9:00</i>								

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

MW01**7/14/2010 9:41:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X007111-01 (Water)

BTEX by EPA 8260B

Benzene	0.00900	0.00100	mg/L	1	OG15002	07/15/2010	07/19/2010	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	73.5-130			"	"	"	
Surrogate: Toluene-d8	92.5 %	79.3-113			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.9 %	81.5-117			"	"	"	

Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

MW02

7/14/2010 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X007111-02 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OG15002	07/15/2010	07/19/2010
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
m,p-Xylene	ND	0.00200	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	73.5-130	"	"	"
Surrogate: Toluene-d8	90.6 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	91.7 %	81.5-117	"	"	"

Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

MW03

7/14/2010 10:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X007111-03 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OG15002	07/15/2010	07/19/2010	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	73.5-130			"	"	"	
Surrogate: Toluene-d8	94.6 %	79.3-113			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	81.5-117			"	"	"	

Origins Laboratory, Inc.



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.

Noelle E Doyle,

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003Asher Weinberg
Project Number: MS1007
Project: WT Durham #4**MW04**

7/14/2010 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X007111-04 (Water)**BTEX by EPA 8260B**

Benzene	0.00112	0.00100	mg/L	1	OG15002	07/15/2010	07/19/2010
Toluene	0.00171	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
m,p-Xylene	ND	0.00200	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	73.5-130	"	"	"
Surrogate: Toluene-d8	90.1 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	91.8 %	81.5-117	"	"	"

Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

MW05**7/14/2010 8:43:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X007111-05 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OG15002	07/15/2010	07/19/2010
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
m,p-Xylene	ND	0.00200	"	"	"	"	"
o-Xylene	ND	0.00100	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	73.5-130	"	"	"
Surrogate: Toluene-d8	92.7 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	93.0 %	81.5-117	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

MW06

7/14/2010 9:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X007111-06 (Water)

BTEX by EPA 8260B

Benzene	1.52	0.0500	mg/L	50	OG15002	07/15/2010	07/20/2010
Toluene	0.0781	0.00100	"	1	"	"	07/19/2010
Ethylbenzene	0.0881	0.00100	"	"	"	"	"
m,p-Xylene	0.185	0.00200	"	"	"	"	"
o-Xylene	0.0131	0.00100	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	73.5-130	"	"	"
Surrogate: Toluene-d8	90.3 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	92.8 %	81.5-117	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

MW07

7/14/2010 9:22:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X007111-07 (Water)

BTEX by EPA 8260B

Benzene	0.0587	0.00100	mg/L	1	OG15002	07/15/2010	07/20/2010	
Toluene	ND	0.00100	"	"	"	"	07/20/2010	
Ethylbenzene	0.00152	0.00100	"	"	"	"	"	
m,p-Xylene	0.00816	0.00200	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	73.5-130			"	"	"	
Surrogate: Toluene-d8	95.1 %	79.3-113			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	81.5-117			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

Volatile Organic Compounds by EPA Method 8260B - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch OG15002 - EPA 5030B

Blank (OG15002-BLK1)

Prepared: 07/15/2010 Analyzed: 07/19/2010

Benzene	ND	0.001	mg/L
Toluene	ND	0.001	"
Ethylbenzene	ND	0.001	"
m,p-Xylene	ND	0.002	"
o-Xylene	ND	0.001	"

Surrogate: 1,2-Dichloroethane-d4	65.6	ug/L	62.5	105	73.5-130
Surrogate: Toluene-d8	58.9	"	62.5	94.3	79.3-113
Surrogate: 4-Bromofluorobenzene	57.9	"	62.5	92.7	81.5-117

Blank (OG15002-BLK2)

Prepared: 07/15/2010 Analyzed: 07/19/2010

Benzene	ND	0.001	mg/L
Toluene	ND	0.001	"
Ethylbenzene	ND	0.001	"
m,p-Xylene	ND	0.002	"
o-Xylene	ND	0.001	"

Surrogate: 1,2-Dichloroethane-d4	65.8	ug/L	62.5	105	73.5-130
Surrogate: Toluene-d8	58.6	"	62.5	93.8	79.3-113
Surrogate: 4-Bromofluorobenzene	58.4	"	62.5	93.5	81.5-117

LCS (OG15002-BS1)

Prepared: 07/15/2010 Analyzed: 07/19/2010

Benzene	0.04	0.001	mg/L	0.0500	81.1	77.3-128
Toluene	0.04	0.001	"	0.0500	84.4	81.7-118
<hr/>						
Surrogate: 1,2-Dichloroethane-d4	64.5		ug/L	62.5	103	73.5-130
Surrogate: Toluene-d8	59.5		"	62.5	95.2	79.3-113
Surrogate: 4-Bromofluorobenzene	57.7		"	62.5	92.3	81.5-117

LCS (OG15002-BS2)

Prepared: 07/15/2010 Analyzed: 07/19/2010

Benzene	0.04	0.001	mg/L	0.0500	87.0	77.3-128
Toluene	0.04	0.001	"	0.0500	89.1	81.7-118

Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

Volatile Organic Compounds by EPA Method 8260B - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch OG15002 - EPA 5030B										
LCS (OG15002-BS2)					Prepared: 07/15/2010 Analyzed: 07/19/2010					
Surrogate: 1,2-Dichloroethane-d4	64.8		ug/L	62.5		104	73.5-130			
Surrogate: Toluene-d8	59.5		"	62.5		95.2	79.3-113			
Surrogate: 4-Bromofluorobenzene	58.6		"	62.5		93.8	81.5-117			
Matrix Spike (OG15002-MS1)					Source: X007110-03 Prepared: 07/15/2010 Analyzed: 07/19/2010					
Benzene	0.04	0.001	mg/L	0.0500	ND	88.4	74.5-132			
Toluene	0.04	0.001	"	0.0500	ND	85.0	74.2-116			
Surrogate: 1,2-Dichloroethane-d4	65.1		ug/L	62.5		104	73.5-130			
Surrogate: Toluene-d8	57.7		"	62.5		92.3	79.3-113			
Surrogate: 4-Bromofluorobenzene	58.1		"	62.5		92.9	81.5-117			
Matrix Spike (OG15002-MS2)					Source: X007110-02 Prepared: 07/15/2010 Analyzed: 07/19/2010					
Benzene	0.05	0.001	mg/L	0.0500	0.004	86.5	74.5-132			
Toluene	0.06	0.001	"	0.0500	0.01	84.7	74.2-116			
Surrogate: 1,2-Dichloroethane-d4	65.2		ug/L	62.5		104	73.5-130			
Surrogate: Toluene-d8	59.0		"	62.5		94.3	79.3-113			
Surrogate: 4-Bromofluorobenzene	58.2		"	62.5		93.2	81.5-117			
Matrix Spike Dup (OG15002-MSD1)					Source: X007110-03 Prepared: 07/15/2010 Analyzed: 07/19/2010					
Benzene	0.04	0.001	mg/L	0.0500	ND	88.3	74.5-132	0.136	13.1	
Toluene	0.04	0.001	"	0.0500	ND	83.3	74.2-116	1.95	21.2	
Surrogate: 1,2-Dichloroethane-d4	65.6		ug/L	62.5		105	73.5-130			
Surrogate: Toluene-d8	56.5		"	62.5		90.4	79.3-113			
Surrogate: 4-Bromofluorobenzene	58.1		"	62.5		92.9	81.5-117			
Matrix Spike Dup (OG15002-MSD2)					Source: X007110-02 Prepared: 07/15/2010 Analyzed: 07/19/2010					
Benzene	0.05	0.001	mg/L	0.0500	0.004	90.0	74.5-132	3.68	13.1	
Toluene	0.06	0.001	"	0.0500	0.01	90.3	74.2-116	4.80	21.2	
Surrogate: 1,2-Dichloroethane-d4	66.7		ug/L	62.5		107	73.5-130			
Surrogate: Toluene-d8	58.3		"	62.5		93.2	79.3-113			
Surrogate: 4-Bromofluorobenzene	58.0		"	62.5		92.7	81.5-117			

Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch OG15002 - EPA 5030B

Origins Laboratory, Inc.



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.

Noelle E Doyle,

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

Asher Weinberg
Project Number: MS1007
Project: WT Durham #4

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

Origins Laboratory, Inc.



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.

Noelle E Doyle,