



## LAUREL ENVIRONMENTAL ASSOCIATES, LTD.

53 WEST HILLS ROAD • HUNTINGTON STATION, NY • 11746

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April 21, 2015

Girish Desai, P.E.  
NYSDEC – Region 1  
Division of Environmental Remediation  
50 Circle Road  
Stony Brook, New York 11970

Re: Supplemental Phase II Remedial Investigation Work Plan  
Fashion Cleaners, NYSDEC Site Code # 130170  
641 East Park Avenue, Long Beach, New York 11561  
**LEA** Project # 08-408

Dear Mr. Desai,

**Laurel Environmental Associates, Ltd. (LEA)** has prepared the following Supplemental Phase II Remedial Investigation (RI) Work Plan, based upon NYSDEC and NYSDOH comments, to delineate the off-site extent of Tetrachloroethene (PCE or PERC) contamination in groundwater down-gradient to the Fashion Cleaners Site (the Site). All of the proposed work below will be conducted in accordance with all applicable criteria of the approved Health and Safety Plan, Sampling and Analysis Plan, Quality Assurance/Quality Control and Community Air Monitoring Program prepared by EnviroTrac Ltd. (ETL) as part of the Phase I RI/FS Work Plan dated October 30, 2008.

### **Additional Groundwater Monitoring Wells:**

Based upon the direction of the NYSDEC seven additional wells will be installed on the northern sidewalk along East Park Avenue. The wells will be installed as far west as the Salon and as far east as the Supermarket. There are presently three shallow wells located within proximity to the former Fashion Cleaners. Upon completion there will be five well locations with a shallow and deep well at each location: 3-13 ft. bgs. (shallow) and 20-25 ft. bgs. (deep).

The wells will be installed using direct-push methods and a model 6712DT Geoprobe® unit, or equivalent. The monitoring wells will be constructed of 2-inch Schedule-40 PVC well screen flush threaded into Schedule-40, PVC riser pipe of the same diameter. The size of the screen will be No. 10 slot (0.010 inch). The base of each well will be equipped with threaded bottom plugs, while the top of each well will be equipped with a vented, non-threaded cap and bolt-down manhole cover set in concrete. Procedures for monitoring well installation are provided in the ETL Phase I RI/FS Work Plan Sampling and Analysis Plan dated October 30, 2008; however the use of direct push technology will eliminate drilling cuttings during monitoring well installation.

Following completion of the well installations, the top of casing will be surveyed, the wells will be developed and a concurrent round of groundwater samples will be collected from both off-site and on-site wells during low tide and sent to the laboratory for analysis. Groundwater measurements will be collected from on-site and off-site wells and a site specific groundwater flow maps will be prepared. Samples will be analyzed by York Analytical.

Samples will be collected and handled under proper chain of custody protocol. The chain of custody form will record the sample and container type, identification, a description, date and time of sampling, sampler name, method of transport and analysis requested.

**Project Schedule:**

Pending NYSDEC approval of this Work Plan, the Phase II RI is anticipated to commence on or about April 27, 2015.

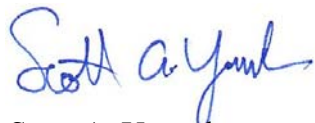
**Report of Findings:**

**LEA** will prepare a report based on a review of validated laboratory data and field data, and plans to issue this Supplemental Phase II RI report in June 2015.

Should you have any questions or comments, please feel free to contact us.

Respectfully Submitted,

***Laurel Environmental Associates, Ltd.***



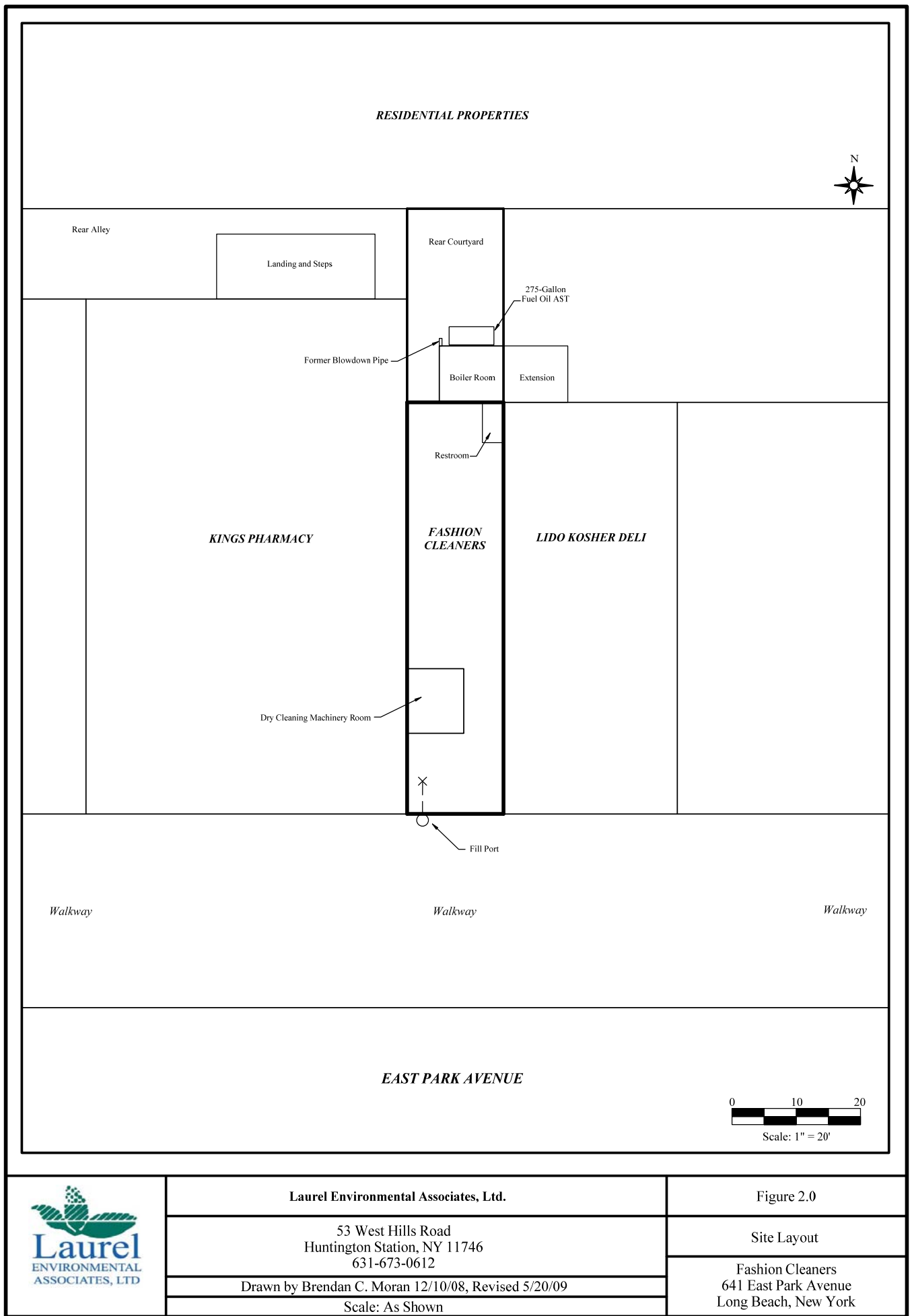
Scott A. Yanuck  
Principal

Enclosures:     Figure 1.0, Site Location  
                     Figure 2.0, Site Layout  
                     Figure 3.0, Proposed Phase II RI Monitoring Well Locations  
                     Figure 4.0, November 2013 Analytical Data

cc:     Mr. Theodore Firetog, Law Offices of Theodore W. Firetog  
         Mr. Walter Parish, NYSDEC  
         Mr. Joseph DeFranco, NCDH  
         Mr. Michael Wayne, Cougar Management & Realty Services, Inc.  
         Mr. Steven Karpinski, NYSDOH







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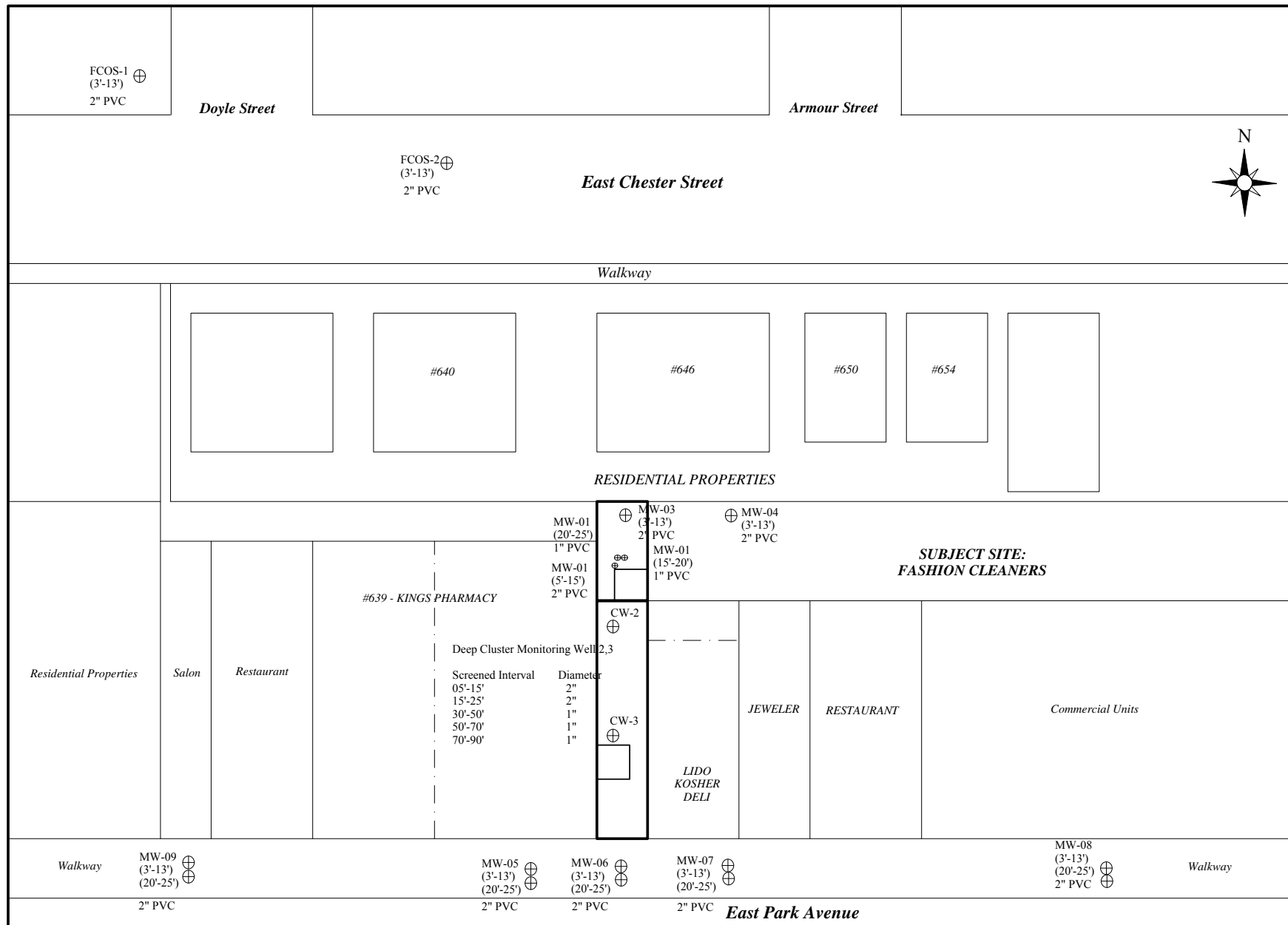
Drawn by Brendan C. Moran 12/10/08, Revised 5/20/09

Scale: As Shown

Figure 2.0

Site Layout

Fashion Cleaners  
641 East Park Avenue  
Long Beach, New York



**Laurel Environmental Associates, Ltd.**

53 West Hills Road  
Huntington Station, NY 11743  
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Drawn by BCM 1/26/09  
Rev 4-20-2015

Scale as Shown

**Figure 3.0**

**Monitoring Well Locations  
and Depths**

Fashion Cleaners  
641 East Park Avenue  
Long Beach, New York

Scale: 1" = 40'



**LEGEND**

- ⊕ = Monitoring well location
- PCE = Tetrachloroethene
- TCE = Trichloroethene
- J = Estimated Value
- PCE & TCE Concentrations in ug/M3



### LEGEND

- ⊗ = Existing Shallow Monitoring Well
- ⊖ = Newer Shallow Monitoring Well
- ⊕ = Newer Intermediate Monitoring Well
- ⊙ = Newer Deep Monitoring Well
- ⊖ = Newer Deep Monitoring Well
- ⊖ = Groundwater Profile Boring

PCE = Tetrachloroethene  
TCE = Trichloroethene  
trans-1,2 DCE = trans-1,2 Dichloroethene  
cis-1,2 DCE = cis-1,2 Dichloroethene  
VC = Vinyl Chloride  
J = Estimate Value  
ND = Not Detected  
Concentrations in ug/L (ppb)

### RESIDENTIAL PROPERTIES

MW-03-2013			MW-03-2010		
DEPTH	3' - 13'		DEPTH	3' - 13'	
PCE			PCE	17,000	
TCE			TCE	490	
trans-1,2 DCE			trans-1,2 DCE	12	
cis-1,2 DCE			cis-1,2 DCE	210	
VC			VC	ND	

MW-03 (3-13)

MW-04 (3-13)

MW-04-2013			MW-04-2010		
DEPTH	3' - 13'		DEPTH	3' - 13'	
PCE	5.4		PCE	9.8	
TCE	0.85		TCE	4 J	
trans-1,2 DCE	<2		trans-1,2 DCE	ND	
cis-1,2 DCE	<2		cis-1,2 DCE	2.6	
VC	<2		VC	ND	

MW-01-2013				
DEPTH	5' - 15'	15' - 20'	20' - 25'	
PCE	48	49	1,900	
TCE	32	6	340	
trans-1,2 DCE	<13	<2.6	<260	
cis-1,2 DCE	33	16	2,600	
VC	<17	<3.4	<340	

MW-01-2010				
DEPTH	5' - 15'	15' - 20'	20' - 25'	
PCE	8,700	3.1 J	16,000	
TCE	63	ND	2,000	
trans-1,2 DCE	ND	ND	24	
cis-1,2 DCE	11	ND	3,300	
VC	ND	ND	70	

MW-01 (20-25)

MW-01 (5-15)

MW-01 (15-20)

Boiler Room

KINGS PHARMACY

FASHION CLEANERS

LIDO KOSHER DELI

MW-02 (5-15)

MW-02 (15-20)

MW-02 (20-25)

MW-02-2013				
DEPTH	5' - 15'	15' - 20'	20' - 25'	
PCE	4,300	120	7,700	
TCE	12,000	140	8,800	
trans-1,2 DCE	31	ND	330	
cis-1,2 DCE	8,300	47	12,000	
VC	390 J	22	100	

Former Dry Cleaning Machinery Room

Walkway

MW-05 (3-13)

MW-05-2013		
DEPTH	3' - 13'	
PCE	<81	
TCE	<33	
trans-1,2 DCE	<130	
cis-1,2 DCE	3,800	
VC	240	

MW-05-2010		
DEPTH	3' - 13'	
PCE	ND	
TCE	ND	
trans-1,2 DCE	ND	
cis-1,2 DCE	ND	
VC	ND	

MW-06-2010		
DEPTH	3' - 13'	
PCE	19	
TCE	2.6 J	
trans-1,2 DCE	ND	
cis-1,2 DCE	3.5 J	
VC	ND	

MW-06-2013		
DEPTH	3' - 13'	
PCE	<2	
TCE	<0.82	
trans-1,2 DCE	<2.6	
cis-1,2 DCE	<2.2	
VC	<3.4	

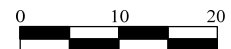
MW-06 (3-13)

MW-07 (3-13)

Walkway

MW-07-2013			MW-07-2010		
DEPTH	3' - 13'		DEPTH	3' - 13'	
PCE	<4.1		PCE	14	
TCE	<1.6		TCE	16	
trans-1,2 DCE	<5.2		trans-1,2 DCE	190	
cis-1,2 DCE	49		cis-1,2 DCE	13,000	
VC	<6.8		VC	2,500	

EAST PARK AVENUE



Scale: 1" = 20'

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Drawn by Brendan C. Moran 12/10/08, Updated, 4/20/2015

Scale: 1" = 20'

Figure 4.0

Groundwater Profiling VOC Analytical  
Results, 2013 & 2010

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Long Beach, New York