

SPIN # 0700373

# Tank Closure Report

Board of Education  
60 12<sup>th</sup> Street  
Brooklyn, NY 11215

Prepared for:

Gemstar Construction Co.

Prepared by:

**The Franklin Company**

22-04 119<sup>th</sup> STREET • COLLEGE POINT, N.Y. 11356 • 718 762-5200

April 17, 2007

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## **1.0 Introduction**

Gemstar Construction Co. (Gemstar) is under contract with Liro Engineers Inc. (Liro) to perform tank closure activities at the Board of Education (B.O.E.) facility, located at 60 12<sup>th</sup> Street in the borough of Brooklyn, New York. (PBS Application, Attachment A). Gemstar provided technical and construction services for the removal and disposal of two (2) 3,000 gallon concrete encased underground storage tanks (USTs), including all piping and appurtenances. According to records and personnel one UST was used to store gasoline and the other UST was used to store No. 4 diesel fuel (Figure 1). The gasoline tank was emptied of contents, purged of vapors and cleaned before removal from the site. The diesel tank had been closed in place prior to the removal activities.

### **1.1 Purpose**

This report presents the findings and activities of the UST closures, summarizes the results of the soil and groundwater analysis and determines if the operation of the storage tanks have impacted subsurface soil and groundwater. The report also serves to track the generation of waste streams as part of the closure, their transport and ultimate disposal.

## **2.0 Site Background**

The B.O.E. is located at 60 12<sup>th</sup> Street in the borough of Brooklyn, New York. The subject property encompasses a lot area of about 32,080 square feet and is located in a predominately commercial neighborhood. It is bordered to the north by a Lowes shopping center, and to the south, east and west by commercial buildings. The nearest body of water to the site is Gowanus Canal, located to the northwest of the subject property.

The USTs and dispenser island were located inside the northwest corner of the subject building and the fill box was located outside the building along 12<sup>th</sup> Street. Gemstar determined the base of the USTs to be 9 feet below ground surface (ftbgs) and the bottom of the concrete slab to be at 10 ftbgs.



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### **3.0 Site Geology**

In a roughly north-south cross section, the geology can be characterized as a wedge-shaped layer of Cretaceous and Pleistocene age unconsolidated sediments, thickening to the south-southeast. Several impermeable clay layers are found within this sediment package, generally creating three distinct aquifers. The thickness of the unconsolidated sequence ranges from zero to approximately 1,300 ftbgs from north to south. The uppermost unconsolidated unit consists of Pleistocene glacial till and moraine deposits in the northern portions of Kings County and glaciofluvial sediments derived from melt-water of the retreating glaciers to the south. These deposits constitute the Upper Glacial Aquifer.

The first unconfined aquifer encountered is the upper glacial aquifer. The depth to the water table varies but generally follows topography with flow from higher to lower elevations. In areas of higher topography associated with glacial moraine deposits, the water table is as great as 100 feet below ground level. Closer to sea level, groundwater can occur at depths of 5 to 10 ftbgs. The terminal moraine deposits act as a groundwater divide with regional flow to the north, north of the moraine and to the south, south of the moraine.

The soils exposed around the USTs and dispensers consisted yellow medium sand (fill material). Groundwater was encountered at 5 ftbgs. Groundwater is believed to flow northwest of the tank field.

### **4.0 Removal Activities**

On March 29, 2007, Gemstar commenced with the demolition of the concrete slab covering the USTs using a Komatsu® excavator and power tools. Prior to the start of demolition activities, all manhole covers were removed and all electrical power was cut off to the tanks. Gemstar excavated and removed the concrete encased, steel constructed 3,000 gallon USTs (Tank Waste Disposal Certificates, Attachment B). An affidavit was filed with the FDNY on April 6th, 2007 certifying that the tanks were removed, cleaned and properly disposed of at off site facilities (Attachment C).

On April 2, 2007, screening was performed by Franklin personnel at the excavation site using a calibrated Photoionization Detector (PID). At the time of the screening groundwater had filled the concrete excavation to 5 ftbgs. Soil was not encountered in the tank field after the tank removal. The PID meter



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did not detect volatile organic compounds (VOCs) but the water exhibited a visible sheen. Franklin collected a groundwater sample in lieu of the soil samples in the tank field.

The soil encountered below the fill box and dispenser island consisted of yellow medium sand (fill material). Two soils samples were collected 3 ft below the dispenser island and fill box, respectively. The sand exposed beneath the fill box and dispenser island did not exhibit the presence of staining or odors and the PID meter did not detect the presence of VOCs.

### **5.0 Soil and Groundwater Sample Analysis Results**

York Analytical Laboratories, Inc. (York), a New York State Department of Health (NYSDOH) accredited laboratory (ELAP Number 10854) performed the analysis on all the samples. The laboratory reports are included as Attachment F.

All samples were submitted for analysis of Spill Technology and Remediation Series (STARS) List VOCs and Semi Volatile Organic Compounds (SVOCs). The laboratory's analytical results did not show detectable levels for VOCs or SVOCs beneath the fill box and dispenser island.

The ground water sample collected from the tank field exceeded ten (10) VOC guidance values in accordance with New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* memorandum, dated June 1998. The compounds that exceeded the criteria included methyl tert-butyl ether, benzene, ethylbenzene, toluene, n-propylbenzene, 1, 2, 4 trimethylbenzene, 1,3,5 trimethylbenzene, naphthalene, o-xylene, and p&m xylenes. Upon receiving the results of groundwater sample from the lab, a spill was called in to the NYSDEC. On April 11, 2007 NYSDEC Spill No. 0700373 was assigned to the site.

### **6.0 Conclusions**

Gemstar properly removed and disposed of two 3,000 gallon USTs including all appurtenances on March 30, 2007. All appropriate waste streams generated as part of the removal activities were properly handled and disposed of at permitted off site facilities. Groundwater was collected in lieu of soil samples in the tank field. The laboratory analytical report shows that the ground water collected from the tank field has

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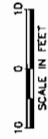
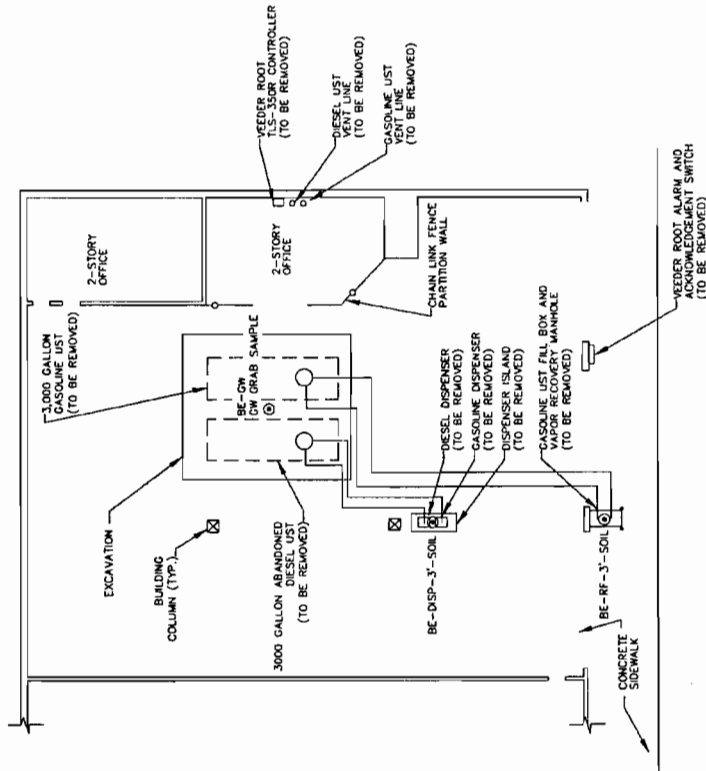
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been impacted by VOCs which are characteristic of gasoline. On April 11, 2007 spill number 0700373 was assigned to this site by the NYSDEC. The compounds detected in the groundwater are indicative of a petroleum release. Further investigation of the site is recommended.



Figure 1

LEGEND  
 ⊙ SAMPLE LOCATION



NO.	DATE	DESCRIPTION

**F**

**EDIO**  
 State of New York  
 Department of Environmental Conservation

**PROJECT TITLE AND LOCATION:**  
 REMOVAL AND REPLACEMENT OF PETROLEUM STORAGE SYSTEM & CATHODIC PROTECTION SYSTEM FOR NYSDOT, PDNY, NYDEP, NYGDS, NYCE&E, BOE BROOKLYN GARAGE

**CLIENT:** BOE BROOKLYN GARAGE SITE / SAMPLING PLAN

**DATE:** APRIL 2007

**DESIGNER:** [Redacted]

**SCALE:** [Redacted]

**PROJECT NO.:** [Redacted]

**DATE:** [Redacted]

**REVISED BY:** [Redacted]

**DATE:** [Redacted]

**SCALE:** 41

WARNING  
 THIS IS A LOCATION OF A HAZARDOUS SUBSTANCE. OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. THIS LOCATION IS NOT TO BE USED FOR ANY OTHER PURPOSES. THIS LOCATION IS NOT TO BE USED FOR ANY OTHER PURPOSES. THIS LOCATION IS NOT TO BE USED FOR ANY OTHER PURPOSES. THIS LOCATION IS NOT TO BE USED FOR ANY OTHER PURPOSES.



## Tables

**Table 1**  
**12th Street Board of Education**  
**60 12th Street**  
**Brooklyn, New York 11215**  
**(2) 3,000 gallon USTs**

**Groundwater Sample Results - VOCs and SVOCs**

	NYSDEC Quality Criteria	BE-GW
<b>VOCs</b>	(ug/L)	
Methyl tert-butyl Ether (MTBE)	10	
Benzene	1	
Ethylbenzene	5	
Toluene	5	3600
Isopropylbenzene	5	ND
n-Propylbenzene	5	
tert-Butylbenzene	5	ND
1,2,4-Trimethylbenzene	5	
1,3,5-Trimethylbenzene	5	100
sec-Butylbenzene	5	ND
n-Butylbenzene	5	ND
Napthalene	10	
o-Xylene	5	
p- & m- Xylenes	5	1400
p-Isopropyltoluene	5	ND
<b>SVOCs</b>		
Napthalene	10	ND
Acenaphthene	20	ND
Anthracene	50	ND
Benzo(a)anthracene	0.002	ND
Benzo(a)Pyrene	0.002	ND
Benzo(b)Fluoranthene	0.002	ND
Benzo(k)Fluoranthene	0.002	ND
Chrysene	0.002	ND
Dibenzo(a,h)anthracene	50	ND
Fluoranthene	50	ND
Fluorene	50	ND
Phenanthrene	50	ND
Pyrene	50	ND
Benzo(g,h,i)perylene	0.002	ND
Indeno(1,2,3-cd)pyrene	0.002	ND

**Note:**

NYSDEC groundwater quality criteria are the standards and guidance values in NYSDEC T.O.G.S. 1.1.1 memorandum  
Shaded cells exceed guidance value and/or standard.

**Table 2**  
**12th Street Board of Education**  
**60 12th Street**  
**Brooklyn, New York 11215**  
**(2) 3000 gallon USTs**

**Soil Sample Results- STARS VOCs and STARS SVOCs**

Compound	NYSDEC TOGS 1.1.1	BE-DISP-3'-SOIL (04/02/07)	BE-RF-3'-SOIL (04/02/07)
<b>STARS List VOCs</b>			
	(ug/kg)		
Methyl tert-butyl Ether (MTBE)	120	ND	ND
1,2,4-Trimethylbenzene	13000	ND	ND
1,3,5-Trimethylbenzene	3300	ND	ND
Benzene	60	ND	ND
Ethylbenzene	5500	ND	ND
Isopropylbenzene	2300	ND	ND
Napthalene	13000	ND	21
n-Butylbenzene	10000	ND	ND
n-Propylbenzene	3700	ND	ND
o-Xylene	1200	ND	ND
p- & m- Xylenes	1200	ND	ND
p-Isopropyltoluene	10000	ND	ND
sec-Butylbenzene	10000	ND	ND
tert-Butylbenzene	10000	ND	ND
Toluene	1500	ND	ND
Total Xylenes	1200	ND	ND
<b>STARS List SVOCs</b>			
Naphthalene	13000	ND	ND
Acenaphthene	50000	ND	ND
Anthracene	50000	ND	ND
Benzo(a)anthracene	224	ND	ND
Benzo(a)Pyrene	61	ND	ND
Benzo(b)Fluoranthene	1100	ND	ND
Benzo(g,h,i)perylene	50000	ND	ND
Benzo(k)Fluoranthene	1100	ND	ND
Chrysene	400	ND	ND
Dibenz(a,h)anthracene	14	ND	ND
Fluoranthene	50000	ND	ND
Fluorene	50000	ND	ND
Indeno(1,2,3-cd)pyrene	3200	ND	ND
Phenanthrene	50000	170	ND
Pyrene	50000	270	ND

**Note:**

NYSDEC guidance values are referenced from the NYSDEC TAGM #4046 Soil Guidance Values.

Shaded cells exceed guidance value and/or standard.

Attachment A  
PBS Application

# Petroleum Bulk Storage Application

Pursuant to the Petroleum Bulk Storage Law,  
Article 17, Title 10 of ECL; 6 NYCRR 612-614 and 6 NYCRR, Subpart 360-14

## Section A

(See enclosed instructions and please be sure to complete Sections A & B)

Return Completed Form to P.O. Box 107  
One Hunters Point Plaza  
1st Floor  
47-40 21st Street  
L.L. City, NY 11101-5407  
(718) 482-6453



Please Type or Print Clearly  
and Complete All Items

Expiration Date:

<b>PBS Number</b> 2-601718  <b>DEC CBS Number:</b> (If applicable)  <b>DEC SPDES Number:</b> (If applicable)  <b>Transaction Type</b> (Check all that apply) NOTE: Transaction Types 1, 2 and 5 may require a fee  <input type="checkbox"/> 1) Initial/ New Facility  <input type="checkbox"/> 2) Change of Ownership  <input checked="" type="checkbox"/> 3) Substantial Tank Modification  <input type="checkbox"/> 4) Information Correction  <input type="checkbox"/> 5) Renewal	F A C I L I T Y           O W N E R           C O R R E S P O N D E N C E	<b>Facility Name:</b> E.R. Facility K887 <b>Location (Not P.O. Boxes):</b> 60 12th Street <b>Location (cont.):</b> <b>City:</b> Brooklyn <b>State:</b> NY <b>Zip Code:</b> 11215 <b>County:</b> KINGS <b>Township or City:</b> New York <b>Name of Operator at Facility:</b> Plant Operation <b>Facility Telephone Number:</b> 718-965-6822 <b>Emergency Contact Name:</b> School Safety <b>Emergency Telephone Number:</b> 212-979-3300 <b>Owner Name:</b> NYC Board of Education <b>Address (Street and/or P.O.):</b> 25-11 Queen Plaza North <b>City:</b> L.I.C. <b>State:</b> NY <b>Zip Code:</b> 11101 <b>Federal Tax ID Number:</b> <b>Owner Telephone Number:</b> 718-391-6901 <b>Type of Owner:</b> (check only one) 1 <input type="checkbox"/> Private Residence 2 <input type="checkbox"/> State Government 3 <input checked="" type="checkbox"/> Local Government 4 <input type="checkbox"/> Federal Government 5 <input type="checkbox"/> Corporate/Commercial	<b>TYPE OF PETROLEUM FACILITY</b> (Check only one) <input type="checkbox"/> 01=Storage Terminal/Petroleum Distributor <input type="checkbox"/> 02=Retail Gasoline Sales <input type="checkbox"/> 03=Other Retail Sales <input type="checkbox"/> 04=Manufacturing <input type="checkbox"/> 05=Utility <input checked="" type="checkbox"/> 06=Trucking/Transportation <input type="checkbox"/> 07=Apartment Building <input type="checkbox"/> 08=School <input type="checkbox"/> 09=Farm <input type="checkbox"/> 10=Private Residence <input type="checkbox"/> 11=Airline/Air Taxi <input type="checkbox"/> 12=Chemical Distributor <input type="checkbox"/> 13=Municipality <input type="checkbox"/> 14=Refinery <input type="checkbox"/> 15=Railroad <input type="checkbox"/> 16=Vessel/Barge <input type="checkbox"/> 99=Other (Specify):
		I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.	
		<b>Name of Owner or Authorized Representative:</b> ANTHONY CAGGIANO <b>Amount Enclosed:</b> \$	
		<b>Title:</b> PROJECT MGR. <b>Signature:</b> Anthony Caggio <b>Date:</b> 3/29/07	
		(Please keep us to date - this information is used for mailing and contact purposes) <b>Attention:</b> Frank Cardello <b>Name of Company:</b> NYC Board of Education <b>Address:</b> 25-11 Queen Plaza North <b>Address:</b> <b>City/State/Zip Code:</b> Long Island City, NY 11101 <b>Telephone Number:</b> 718-391-6901	<b>OFFICIAL USE ONLY</b>  Page ___ of ___  Date Received ___/___/___  Date Processed ___/___/___  Amount Received \$ _____  Reviewed by _____

04/18/2007 17:19 7184421509 GENSTAR PAGE 02

PBSN: II  
2-601718

**Section B - Tank Information**

(See enclosed instructions and use the key located on the bottom of this sheet to complete each item/column)

Registration Expiration Date:

(1) Action	(2)		(3) Tank Location	(4) Status	(5) Installation or Permanent Closure Date (Month/Day/Year)	(6) Capacity (Gallons)	(7) Product Stored	(8)		(9) Tank Internal Protection	(10)		(11) Tank Leak Detection	(12) Tank Overfill Prevention	(13) Tank Spill Prevention	(14) Tank Dispenser	(15) Piping Location	(16)		(17) Piping Leak Detection	(18) Last Test Date (Underground Tanks) (Month/Day/Year)	
	Tank Model	Piping Model						Tank Number	1		2	3						4	5			6
3			001	5	3/30/07	3000	9	1	0	1	0	1	5	0	1	2	0	0	99	99	60	00
3			002	5	3/30/07	5000	2	1	0	1	0	1	5	0	1	2	0	0	99	99	00	00

- Action (1)**
- Initial Listing
  - Add Tank
  - Close/Remove Tank
  - Information Correction
  - Recondition/Repair/Refine Tank

- Tank Location (3)**
- Aboveground-contact w/soil
  - Aboveground-contact w/impervious barrier
  - Aboveground on saddles, legs, stilt, rack, or cradle
  - Aboveground with 10% or more below ground
  - Underground
  - Underground, vaulted, with access

- Status (4)**
- In-service
  - Temporarily out-of-service
  - Closed-Removed
  - Closed- In Place
  - Tank converted to Non-Regulated use

- Product Stored (7)**
0000. Empty
  0001. #2 Fuel Oil
  0002. #4 Fuel Oil
  0003. #6 Fuel Oil
  0004. Asphalt
  0006. Crude Oil
  0008. Diesel
  0009. Gasoline
  0012. Kerosene
  0013. Lube Oil
  0022. Waste/Used Oil
  0061. Other Petroleum
  0259. #5 Fuel Oil
  2642. Used Oil (Fuel)
  0099. Other - please list

- Tank Type (8)**
01. Steel/Carbon Steel/Iron
  02. Galvanized Steel Alloy
  03. Stainless Steel Alloy
  04. Fiberglass Coated Steel
  05. Steel Tank Enclosed in Concrete
  06. Fiberglass Reinforced Plastic (FRP)
  07. Plastic
  08. Equivalent Technology
  09. Concrete
  99. Other-please list\*
- Internal Protection (9)**
00. None
  01. Epoxy Liner
  02. Rubber Liner
  03. Fiberglass Liner (FRP)
  04. Glass Liner
  99. Other-please list\*

- External Protection (10/15)**
00. None
  01. Painted/Asphalt Coating
  02. Original Sacrificial Anode
  03. Original Impressed Current
  04. Fiberglass
  05. Jacketed
  06. Wrapped (Piping)
  07. Retrofitted Sacrificial Anode
  08. Retrofitted Impressed Current
  99. Other-please list\*
- Piping Location (16)**
00. No Piping
  01. Aboveground
  02. Underground/On-ground
  03. Aboveground/Underground
  - Combination

- Piping Type (17)**
00. None
  01. Steel/Carbon Steel/Iron
  02. Galvanized Steel
  03. Stainless Steel Alloy
  04. Fiberglass Coated Steel
  05. Steel Encased in Concrete
  06. Fiberglass Reinforced Plastic (FRP)
  07. Plastic
  08. Equivalent Technology
  09. Concrete
  10. Copper
  11. Flexible Piping
  99. Other-please list\*
- Soil Prevention (19)**
00. None
  01. Catch Basin
  02. Transfer Station Containment
  99. Other - Please list\*

- Secondary Containment (11/12)**
00. None
  01. Diking (Aboveground)
  02. Vault (w/access)
  03. Vault (w/o access)
  04. Double-Walled (Underground)
  05. Synthetic Liner
  06. Remote Impounding Area
  07. Excavation/Trench Liner System
  08. Flexible Internal Liner (Bladder)
  09. Modified Double-Walled (Aboveground)
  99. Other-please list\*
- Dispenser (14)**
00. None
  01. Submersible
  02. Suction
  03. Gravity

- Leak Detection (12/20)**
00. None
  01. Interstitial Electronic Monitoring
  02. Interstitial Manual Monitoring
  03. Vapor Well
  04. Groundwater Well
  05. In-Tank System (ATG)
  06. Concrete Pad (AG)
  07. Pressurized Piping Leak Detector
  08. Tank Top Stump (Pipin)
  09. Exempt Suction Piping
  99. Other-please list\*
- Overfill Prevention (13)**
00. None
  01. Float Vent Valve
  02. High Level Alarm
  03. Automatic Shut-off
  04. Product Level Gauge/A
  05. Vent Whistle
  99. Other-please list\*

\* If other, please list on a separate sheet including Tank Number

Attachment B

Tank Waste Disposal Certificates

(718) 722-7754 - (718) 722-7745  
**Benson Scrap Iron & Metal**  
 543 Smith St.  
 License #0987300

# 560 <sup>00</sup>/<sub>14</sub>

3/30/07

49131

BROOKLYN, N.Y. 11211  
 Gem Star

ADDRESS

83 Jennett Ave

	LIGHT IRON	STEEL - MIXED	CAST - IRON
Gross	(CLEAN)	45000	S.I
Tare	CUT	36800	
Net			
Total	TANK	8200	
Age	Weight	Color Eyes	Complexion
			Weight
			Time

ALL MATERIALS LISTED ARE QUANTITIES NOT TO BE EXCEED

TRAPAT Construct.



Attachment C

Tank Closure Affidavit



83 JEWETT AVENUE  
STATEN ISLAND, NY  
10302  
TEL: 718-442-8200  
FAX: 718-442-1509  
WWW.GEMSTARCORP.COM

# GEMSTAR

CONSTRUCTION CORPORATION

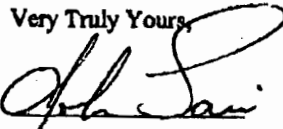
April 6, 2007

FDNY, Bureau of Fire Prevention  
Bulk Fuel Safety Unit  
9 Metro Tech Center  
Brooklyn, NY 11201

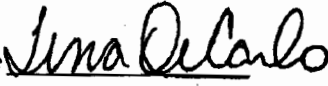
Location: NYC BOE Brooklyn Garage  
60 12<sup>th</sup> Street  
Brooklyn, NY

### Letter of Affidavit

I John Sala being duly sworn says: that I am President of GEMSTAR CONSTRUCTION CORP., holding license number: 62357439 does hereby certify that Gemstar Construction Corporation has on : March 30, 2007 cleaned, removed and properly disposed of (2) two 3,000 gallon gasoline double wall steel underground storage tanks and all associated piping at the above referenced location, and that all work was performed according to Federal, State, and Local regulations, as well as manufacturers specifications.

Very Truly Yours,  
  
President

Sworn to before me this 30<sup>th</sup> day of January, 2007

Notary Public   
TINA DECARLO  
NOTARY PUBLIC, STATE OF NEW YORK  
EXPIRES 01/31/2011  
QUALIFIED IN RICHMOND COUNTY  
COMMISSION # 127788, 02/02/2011

Attachment D

Non Hazardous Waste Manifest

04/18/2007 17:19 7184421509  
 Lorco Petroleum Services  
 450 South Front St.  
 Elizabeth, NJ 07202  
 (908) 820-8800  
 (800) 734-0910  
 FAX: (908) 820-8412



GEMSTAR

PAGE 04

STANDARD  
 COLLECTION  
 ORDER FORM  
 622346

GENERATOR/LOCATION		SALES ORDER #	BILL TO (IF DIFFERENT FROM LOCATION)	
NAME	NAME		NAME	
INFORMATION/ATTENTION LINE	ACCOUNT APPROVAL CODE	INFORMATION/ATTENTION LINE	ACCOUNT APPROVAL CODE	
DELIVERY ADDRESS	DELIVERY ADDRESS		DELIVERY ADDRESS	
CITY	STATE	ZIP	CITY	STATE
PHONE NUMBER	PURCHASE ORDER NUMBER	PHONE NUMBER	PURCHASE ORDER NUMBER	
TIME IN	TIME OUT	MANIFEST NUMBER		

SHIPPING INFORMATION

This is to certify that the below named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

NO.	TYPE	QTY.	UNIT	US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	SALES REPRESENTATIVE
-----	------	------	------	---	----------------------

SERVICE SECTION

SALES CODE	DESCRIPTION	WASTE CODE	QUANTITY	UNIT PRICE	PRICE	TAX	LINE TOTAL
40500	USED OIL REMOVAL						
40300	ANTI-FREEZE REMOVAL						
40400	OILY WATER DISPOSAL						
41100	SLUDGE DISPOSAL						
41000	GASOLINE/WATER		1,120				
			Gallons				
40900	DRUM DISPOSAL						
41507	TANK ENTRY						
40600	OIL FILTER REMOVAL						
40800	PARTS WASHER SERVICE						
40611	NEW 55 GAL DRUM / 17H						
42001	DEXSIL TEST KIT	TAX					
41506	TRANSPORTATION						
40700	LLD ANTI-FREEZE						
41508	TRUCK AND OPERATOR						

PARTS WASHER SERVICE INTERVAL \_\_\_\_\_ DAYS.  
 USED OIL CUSTOMER SERVICED EVERY 30 DAYS  
 UNLESS OTHERWISE INDICATED.  
 USED OIL SERVICE INTERVAL \_\_\_\_\_ DAYS.

GENERATOR WARRANTS AND REPRESENTS THAT THE MATERIALS PROVIDED LORCO HEREUNDER HAVE NOT BEEN MIXED, COMBINED, OR OTHERWISE BLENDED IN ANY QUANTITY WITH MATERIALS CONTAINING POLYCHLORINATED BIPHENYLS (PCB) OR ANY OTHER MATERIAL DEFINED AS HAZARDOUS WASTE UNDER APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO 40 CFR PART 261. GENERATOR AGREES TO INDEMNIFY AND HOLD LORCO HARMLESS FOR ANY DAMAGES, COSTS, ATTORNEY'S FEES, ETC. ARISING OUT OF OR IN ANY WAY RELATED TO A BREACH OF THE ABOVE WARRANTY BY THE GENERATOR.

Generator certifies that the waste is  used oil  used antifreeze  oily water  oil filter  parts washer solvent

Other \_\_\_\_\_ Description  
 In accordance the N.J.A.C. 7:26-12.1 et seq. LORCO has the required permits to accept the above described waste.

X \_\_\_\_\_ Title  
 Signature Date  
 GENERATOR/CUSTOMER

CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR CERTIFICATION

I certify that this generator generates less than 100 kilograms of hazardous waste per month, as defined at 40 C.F.R. 261, and does not accumulate more than 1,000 kilograms of such waste during the month.

X \_\_\_\_\_ GENERATOR'S SIGNATURE

NON CONDITIONALLY EXEMPT LARGE QUANTITY GENERATOR CERTIFICATION

DEXSIL CDT TEST RESULTS  
 X \_\_\_\_\_ PPM

TOTAL

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT SECTION. INVOICES REFLECTING CHARGES TO CUSTOMER ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OF 1 1/2% PER MONTH (18% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT, LORCO SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES. INITIAL \$

PAYMENT RECEIVED SECTION

CASH <input type="checkbox"/>	TOTAL RECEIVED
CHECK NUMBER	

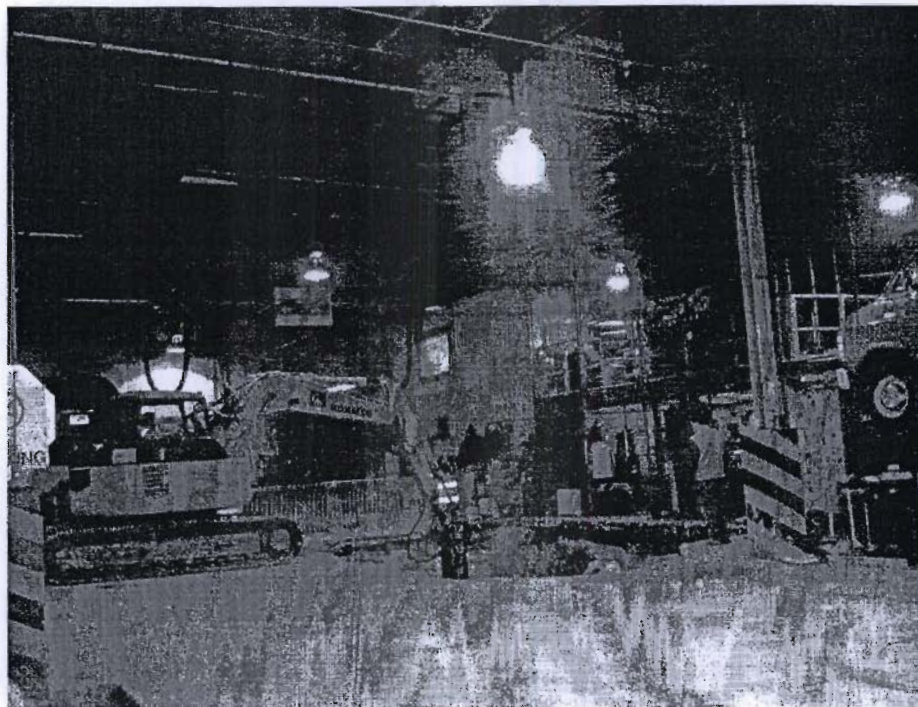
In accordance with NJAC7:26-6.7b + 40CFR PART 279 LORCO has notified the US EPA of its location and used oil management activities.

X R. DiIorio  
 Print Name  
 X R. DiIorio 3-27-07  
 Signature Date

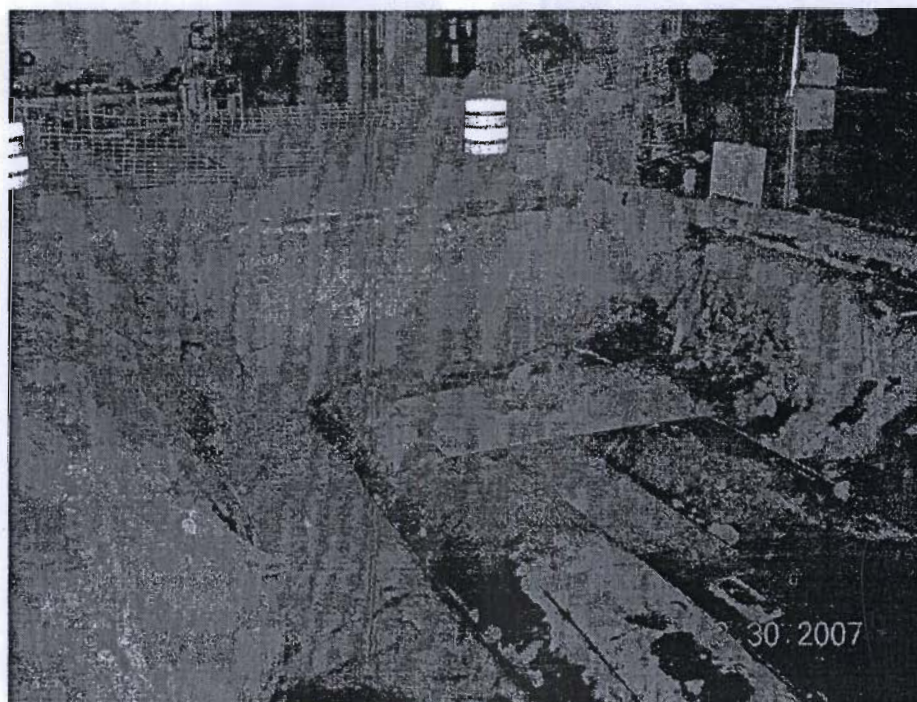
LORCO REPRESENTATIVE

Attachment E  
Site Photographs

12<sup>th</sup> Street BOE  
Photographs taken March 30<sup>th</sup> & April 2, 2007



Subject Area



Exposed USTs



12<sup>th</sup> Street BOE  
Photographs taken March 30<sup>th</sup> & April 2, 2007



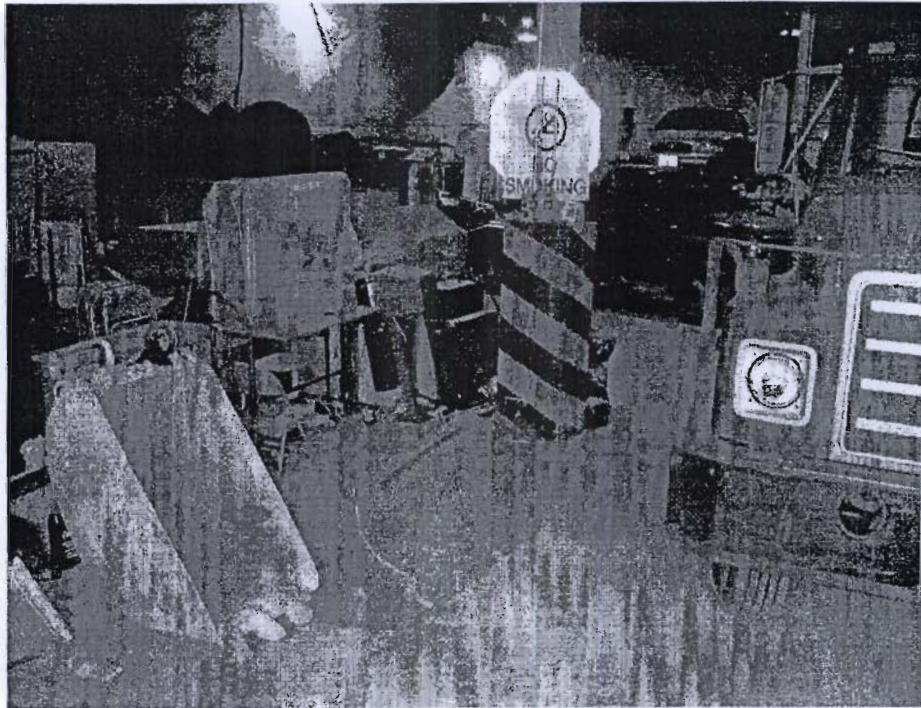
UST Removal



UST (showing opening cut to clean tank)



12<sup>th</sup> Street BOE  
Photographs taken March 30<sup>th</sup> & April 2, 2007



Dispenser Area



Fill Area



**Attachment F**  
**Analytical Results**

**YORK**  
ANALYTICAL LABORATORIES, INC.

# Technical Report

prepared for:

**Franklin Company Contractors**  
22-04 119th Street  
College Point, NY 11356  
Attention: Mr. William Klein

Report Date: 4/11/2007  
**Re: Client Project ID: 12 St. Board of Education**  
York Project No.: 07040112

CT License No. PH-0723

New York License No. 10854



Report Date: 4/11/2007  
 Client Project ID: 12 St. Board of Education  
 York Project No.: 07040112

**Franklin Company Contractors**  
 22-04 119th Street  
 College Point, NY 11356  
 Attention: Mr. William Klein

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 04/03/07. The project was identified as your project "12 St. Board of Education".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

## Analysis Results

Client Sample ID			BE-GW	
York Sample ID			07040112-01	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	—	—
1,2,4-Trimethylbenzene			420	50.0
1,3,5-Trimethylbenzene			100	50.0
Benzene			270	10.0
Ethylbenzene			1200	50.0
Isopropylbenzene			Not detected	50.0
Methyl-tert-butyl ether			57	50.0
Naphthalene			140	50.0
n-Butylbenzene			Not detected	50.0
n-Propylbenzene			87	50.0
o-Xylene			670	50.0
p- & m- Xylenes			1400	50.0
p-Isopropyltoluene			Not detected	50.0
sec-Butylbenzene			Not detected	50.0
tert-Butylbenzene			Not detected	50.0
Toluene			3600	50.0

**YORK**

Client Sample ID			BE-GW	
York Sample ID			07040112-01	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Semi-Volatiles, STARS List	SW846-8270	ug/L	---	---
Acenaphthene			Not detected	6.2
Acenaphthylene			Not detected	6.2
Anthracene			Not detected	6.2
Benzo[a]anthracene			Not detected	6.2
Benzo[a]pyrene			Not detected	6.2
Benzo[b]fluoranthene			Not detected	6.2
Benzo[g,h,i]perylene			Not detected	6.2
Benzo[k]fluoranthene			Not detected	6.2
Chrysene			Not detected	6.2
Dibenz[a,h]anthracene			Not detected	6.2
Fluoranthene			Not detected	6.2
Fluorene			Not detected	6.2
Indeno[1,2,3-cd]pyrene			Not detected	6.2
Naphthalene			Not detected	6.2
Phenanthrene			Not detected	6.2
Pyrene			Not detected	6.2

Client Sample ID			BE-DISP-3'-SOIL		BE-RF-3'-SOIL	
York Sample ID			07040112-02		07040112-03	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10.0	Not detected	10.0
1,3,5-Trimethylbenzene			Not detected	10.0	Not detected	10.0
Benzene			Not detected	2.00	Not detected	2.00
Ethylbenzene			Not detected	10.0	Not detected	10.0
Isopropylbenzene			Not detected	10.0	Not detected	10.0
Methyl-tert-butyl ether			Not detected	10.0	Not detected	10.0
Naphthalene			Not detected	10.0	21	10.0
n-Butylbenzene			Not detected	10.0	Not detected	10.0
n-Propylbenzene			Not detected	10.0	Not detected	10.0
o-Xylene			Not detected	10.0	Not detected	10.0
p- & m- Xylenes			Not detected	10.0	Not detected	10.0
p-Isopropyltoluene			Not detected	10.0	Not detected	10.0
sec-Butylbenzene			Not detected	10.0	Not detected	10.0
tert-Butylbenzene			Not detected	10.0	Not detected	10.0
Toluene			Not detected	10.0	Not detected	10.0
Semi-Volatiles, STARS List	SW846-8270	ug/kG	---	---	---	---
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo[a]anthracene			Not detected	165	Not detected	165
Benzo[a]pyrene			Not detected	165	Not detected	165
Benzo[b]fluoranthene			Not detected	165	Not detected	165
Benzo[g,h,i]perylene			Not detected	165	Not detected	165
Benzo[k]fluoranthene			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenz[a,h]anthracene			Not detected	165	Not detected	165

**YORK**

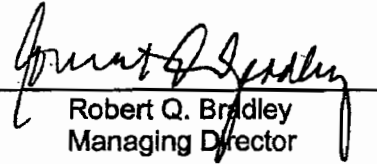
Client Sample ID			BE-DISP-3'-SOIL		BE-RF-3'-SOIL	
York Sample ID			07040112-02		07040112-03	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Indeno[1,2,3-cd]pyrene			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Phenanthrene			170	165	Not detected	165
Pyrene			270	165	Not detected	165

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

**Notes for York Project No. 07040112**

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By:

  
 Robert Q. Bradley  
 Managing Director

Date: 4/11/2007

**YORK**

# YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE STRATFORD, CT 06615  
(203) 325-1371 FAX (203) 357-0166

## Field Chain-of-Custody Record

Page 1 of 1

Board space w/ Mary 4-1-07 40112

<b>Company Name</b> FRANKLIN COMPANY 2204 119th STREET C. POINT, NY 11354	<b>Report To:</b> WILLIAM KLEIN	<b>Invoice To:</b> WILLIAM KLEIN	<b>Project ID/No.</b> 12 ST. BROUQ OF EDU.	<b>Samples Collected By (Signature)</b> 
				<b>Name (Printed)</b> VLADIMIR ORTIZ

Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
	BE-GW	4-2-07	/				* VOC / * SVOC	(1) AMBEZ (2) VOA (HCL)
	BE-DISP-3'-SOIL	4-2-07		/			Ø VOC / Ø SVOC	(1) 4 OZ SAE (1) 2 OZ SAE
	BE-RF-3'-SOIL	4-2-07		/			* VOC / * SVOC	(1) 4 OZ SAE (1) 2 OZ SAE

<b>Chain-of-Custody Record</b>				4-2-07 10:00				4757	
Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time	Sample Received in LAB by	Date/Time		
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time	Sample Received in LAB by	Date/Time		

**Comments/Special Instructions** 382

**Turn-Around Time**  
 Standard \_\_\_\_\_ RUSH(define) \_\_\_\_\_