



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**HILLCREST VAPOR MITIGATION PROJECT**  
**VARIOUS STREETS**

**HILLCREST, NY** NO ZIP PROVIDED

**Spill Number: 0551157**

**Close Date: 09/16/2008**

ADDRESS CHANGE INFORMATION

Revised street:

Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL  
 Notifier Type: DEC

Spiller: CAE LINK ELECTRONICS  
 Notifier Name: TOM SUOZZO

Spiller Phone:  
 Notifier Phone: (607) 775-2545  
 ext: 120

Caller Name: TOM SUOZZO

Caller Agency: NYSDEC

Caller Phone: (607) 775-2545  
 ext: 120

DEC Investigator: jeokesso

Contact for more spill info:

Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.

Class: Unable or Unwilling RP – DEC Field Response – DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
10/18/2005	01/02/2008	OTHER	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	

**Caller Remarks:**

Ongoing vapor mitigation project. Several buildings to have mitigation systems installed to remove chlorinated solvents.

DEC Investigator Remarks:

DEC hired contractors to install mitigation systems. jeo.

Vapor mitigation systems installed. Work is part of DER project– CAE Link – Hillcrest – # 704015.



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**KODAK PARKING LOT 54**  
**WEST RIDGE ROAD**

**ROCHESTER, NY 14615**

**Spill Number: 1600303**

**Close Date: 12/19/2016**

ADDRESS CHANGE INFORMATION

Revised street:

Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL

Notifier Type: Other

Caller Name:

DEC Investigator: PRMILLER

Spiller: EASTMAN KODAK

Notifier Name:

Caller Agency:

Contact for more spill info: CALLER

Spiller Phone:

Notifier Phone:

Caller Phone:

Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP – DEC Field Response – Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
04/08/2016		EQUIPMENT FAILURE	NO		NO	

  

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
VINYL CHLORIDE	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	SOIL, GROUNDWATER
DICHLOROETHYLENE	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	SOIL, GROUNDWATER
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	SOIL, GROUNDWATER

**Caller Remarks:**

**TECHNICIAN DISCOVERED WATER BUBBLING UP THROUGH PAVEMENT NEAR RECOVERY WELL PL54NE IN UNUSED PARKING LOT AT KODAK PARK. SUSPECT LEAKING BURIED PIPE FROM RECOVERY WELL. WATER CAUSED ORANGE STAINING FROM HIGH IRON CONTENT OF WATER. THE PUMP IS SHUT OFF AND ARRANGEMENTS ARE BEING MADE TO REPAIR. WATER CONTAINS VARIOUS CONCENTRATIONS OF VINYL CHLORIDE, DICHLOROETHYLENE AND TRICHLOROETHYLENE.**

DEC Investigator Remarks:

E&E WILL NOTIFY DEPARTMENT WHEN REPAIRS ARE ARRANGED.

04/08/2016: RECEIVED EMAIL FROM LARRY THOMAS: Pete,

I just rec'd a call from Ashlee Patnode from E&E my contractor handling the Kodak pump well operations. She reported that a pumping well (PL54NE) conveyance line failed and extracted groundwater was leaking up through the pavement in KPW, between the

wellhead and the well metering shed. The well was shut down by Popli (one of E&E's subs).

Release was in parking lot on north side of KPW (outside of the fence as I understand it), and flowed south back towards Kodak proper. There is a high iron content in groundwater in this area so there is some orange staining.

I directed her to call it in to Region 8.

Larry Lawrence M. Thomas Engineering Geologist, Remedial Section D Remedial Bureau E Division of Environmental Remediation

New York State Department of Environmental Conservation 625 Broadway, 12th Floor, Albany, NY 12233-7017 P: (518) 402-9813 – F: (518) 402-9819 – [lawrence.thomas@dec.ny.gov](mailto:lawrence.thomas@dec.ny.gov) Directions: <http://www.dec.ny.gov/about/244.html>

[www.dec.ny.gov](http://www.dec.ny.gov) – –

Follow-up by P. Jangbari, NFA by spills.



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**KODAK PARK BLDG 329**  
**KODAK PARK BLDG 329**

**GREECE, NY** NO ZIP PROVIDED

**Spill Number: 9710609**

**Close Date: 12/17/1997**

ADDRESS CHANGE INFORMATION

Revised street:

Revised zip code:

Source of Spill: INSTITUTIONAL, EDUC, GOV, OTHER  
 Notifier Type: Responsible Party  
 Caller Name: MARK NICHOLSON  
 DEC Investigator: DLTILTON

Spiller: MARK NICHOLSON – EASTMAN KODAK COMPANY  
 Notifier Name:  
 Caller Agency: EASTMAN KODAK COMPANY  
 Contact for more spill info: MARK NICHOLSON

Spiller Phone: (716) 722-4721  
 Notifier Phone:  
 Caller Phone: (716) 722-4721  
 Contact Person Phone: (716) 722-4721

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP – DEC Field Response – Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
12/17/1997	12/17/1997	EQUIPMENT FAILURE	NO		NO	
Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
DICHLOROMETHANE	HAZARDOUS MATERIAL	1096	POUNDS	0	POUNDS	AIR
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	513.00	POUNDS	0.00	POUNDS	AIR

Caller Remarks:

**COMPUTER PROBLEM CAUSED RELEASE TO AIR.**

DEC Investigator Remarks:

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was DT DT SPOKE TO MICHELE KHARROUBI OF KODAK UNIT. KODAK UNIT TO FOLLOW UP. NO FURTHER ACTION BY SPILLS.



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**WATERMARK DESIGNS LTD**  
 491 WORTMAN AVE

**BROOKLYN, NY** NO ZIP PROVIDED

**Spill Number: 0809879**

**Close Date: 03/01/2019**

ADDRESS CHANGE INFORMATION

Revised street:

Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL

Notifier Type: Other

Caller Name:

DEC Investigator: AABARRAZ

Spiller: UNKNOWN

Notifier Name:

Caller Agency:

Contact for more spill info: JOHN EICHLER

Spiller Phone:

Notifier Phone:

Caller Phone:

Contact Person Phone: (631) 589-6353

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
12/03/2008		HOUSEKEEPING	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	GALLONS	0.00	GALLONS	SOIL, GROUNDWATER

Caller Remarks:

CALLER STATES THAT **THEY RECIEVED SOIL BORING SAMPLES BACK TODAY INDICATING CONTAMINATED SOIL AND GROUND WATER.** CLEAN UP IS PENDING.

DEC Investigator Remarks:

08/15/09-HRAHMED- As per PropertyShark records: Street address: 491 Wortman Ave

Primary address: 1009 Linwood St

Zip 11208

Borough Brooklyn

Block & lot 04384-0036

First 3 alt addresses 481-491 Wortman Ave, 1009-1019 Linwood St

1/26/10–Vought–File review by Vought:

Supplemental Subsurface Investigation Report (PW Grosser–John Eichler–Ph:631–589–6353)–12/9/08. Sent to:

Mr. Jack Abel Watermark Designs 350 Dewitt Avenue Brooklyn, NY 11207

Site has one commercial building that covers entire area of property. Site formerly used as a metal etching company, steel tube manufacturing company and a plumbing faucet/fixture company. Possible plating pit in northwest corner of building. Phase II shows elevated TCE in soil collected from northwest portion of building. Attempts made to dye flush test floor drain in bathroom but drain was blocked but drain appeared to lead to a sewer connection pit which discharges to the municipal sewer. Fuel oil AST encased in concrete block in the basement and soil samples below AST shows that soils were not impacted. Plating pit later discovered to be a loading/bay truck scale. Based on conversations with the current owner of the property, the sources of TCE appears to have been a TCE degreasing tank with was formerly located directly to the south of the former loading bay/truck scale.

Report recommends additional soil and groundwater investigation via soil borings. Proposal of soil boring investigation to delineate contamination via Geoprobe collection of soil and groundwater samples. Delineation will also include vertical profile of groundwater contamination to a depth of 50'bg (i.e collection of vertical groundwater samples at 10 foot intervals from 10–50'bg to study DNAPL). Cost estimate included in proposal.

EnviroTrac Limited Subsurface Investigation Report (EnviroTrac–David Lorthior–631–924–3001)–2/1/09. Seven soil boring and one well were installed including collection of five groundwater samples. Borings installed via Geoprobe. Fill from 6–8'bg and sand below. Soil analyticals show: 2400ppb TCE (B2 8–10'bg), 20000ppb TCE (B3(0–5'bg), 8800ppb TCE(B4 6'bg), 140000ppb TCE(B7 2–5'bg), 5000ppb PCE(B7 2–5'bg), 4400ppb TCE(B8 3–5'bg), 3300ppb TCE(B8 7–7.5'bg). PCE not used at site and suggests that a possible source associated with the prior usage of he building could be responsible for the impacted soil in this area. Depth to groundwater is 12'bg. Groundwater analyticals show:54ppb TCE(B2 15'bg), 91ppb PCE(B2 15'bg), 5700ppb TCE(B5 15'bg), 510ppb PCE(B5 15'bg), 36ppb TCE(B5 25'bg), 97ppb PCE(B5 25'bg), 14ppb TCE(B5 35'bg), 26ppb PCE(B5 35'bg), 18ppb TCE(B5 45'bg), 38ppb PCE(B5 45'bg). Report recommends submission of a Remedial Investigation Work Plan. No petroleum contamination found at site.

Phase II Environmental Site Assessment (PW Grosser John Eichler Ph:631–589–6353)–1/13/09. Seven soil borings were installed at site in Nov 2008 via Geoprobe. Groundwater at 10'bg and two samples collected for analysis. Groundwater flow estimated to south. Fuel and vent noted leading to AST in basement. One boring installed adjacent to UST with no petroleum staining observed. Floor drain dye test resulted in determination drain was clogged. Boring B–02 was located in the reported vicinity of a former TCE degreasing tank. Based on this, the degreasing tank appears to be the source of TCE in the soil. Soil analyticals show: 201ppb MTBE (GP2 8–10'bg), 18900ppb TCE(GP–02 0–2'bg), 63100ppb TCE(GP–02 8–10'bg). Groundwater analyticals show: 24000ppb TCE(GP1), 544ppb PCE(GP1) 7ppb DCE(GP1), 78ppb PCE(GP4), 24ppb TCE(GP4). Report recommends further investigation to delineate contaminaton and that indoor air quality be evaluated and that AST be properly closed.

Environmental Services Report Proposed Corrective Action and Remedial Investigation Work Plan(Impact Environmental–Tony Kloss–Ph:908–534–8820)–7/10/09. Prepared for Watermark Designs. Onsite building has three sections and properly is currently vacant and unoccupied. Building owned by Watermark Designs for past 25 years to manufacture, store, package and ship hardware, bathroom fixtures. Onsite processes included painting, plating, etching, polishing, and machining. Cleaning agents, such as trichloroethylene(TCE) and tetrachlorethylene(PCE) were routinely used by Watermark Designs, Ltd. at the subject property to fine clean and polish metals and metal products. Watermark purchased new property at 350 Dewitt Avenue and moved and looking to sell this site. Proposal to isolate each building section and excavated contaminated soil. It is estimated that a total of approximately 400 tons of chlorinated VOC contaminated soil will be excavated from two designated work areas in Building 1... . Work activities will include the evacuation of as much chlorinated VOC contaminated groundwater as is safe and practical with estimates of removal of 18,000 gallons of contaminated groundwater. Proposal to collect endpoint soil and bottom groundwater samples and submit results report.

Email from Abel to DEC Ahmed–12/3/09. I'm following–up on our most recent conversation about the NYSDEC Spill Case No. 0809879 assigned to 491 Wortman Avenue, Brooklyn, NY. Were you able to identify and/or obtain a copy of the NYSDEC correspondence issued to Mr. Jack Abel from Watermark Designs Ltd. for the subject property? Watermark Designs Ltd. received some type of NYSDEC correspondence about the subject property but misplaced the letter. The NYSDEC correspondence would have been dated late October 2009 or early November 2009. Our firm advised Watermark Designs Ltd. that the subject property is the first site assigned to a new program within the NYSDEC system for hazardous TCE and DNAPL type contaminant investigation and corrective action. As a responsible party and environmental steward, Watermark Designs Ltd. is prepared to move forward with the scope of work presented in the Proposed Corrective Action and Remedial Investigation Work Plan prepared by our firm and dated 10 July 2009. Watermark Designs Ltd. would like to start the project as soon as possible. Please provide our firm and/or Mr. Jack Abel at Watermark Designs Ltd. with an update concerning the project at your earliest convenience. I included Jack Abel's contact information below. Thank you for your time and attention to the matter.

Mr. Jack Abel Watermark Designs Ltd. (p) 718.257.2800, Ext. 20 (f) 718.257.2144 (e) jabel@watermark–designs.com

Email from Impact (Kloss) to DEC Ahmed–1/5/10. We spoke approximately four (4) weeks ago concerning the corrective action project for Watermark Designs Ltd. at 491 Wortman Avenue, Brooklyn, NY. Did you have an opportunity to issue an update letter or e–mail to Mr. Jack Abel from Watermark Designs Ltd concerning the project? Also, what is the status of the consent order for the project? When last we spoke in early December 2009, you indicated that the consent order would be issued to Mr. Jack Abel within three (3) to four (4) weeks.

DEC possibly requires: 1)P–Site letter 2)Check PBS for AST registration 3)delineation of chlorinated solvent soil and groundwater contamination 4)possible approval of proposal to evaluate indoor air (property vacant as per 7/09 report).

1/26/10–Vought–Meeting with DEC Krimgold and Austin. Spill reassigned from Ahmed to Vought.

1/28/10–Vought–Received email from Abel that Good morning. I'm following up on our conversation yesterday morning and the internal NYSDEC meeting you had for the contaminated soil and groundwater project at 491 Wortman Avenue, Brooklyn, NY. When you have a moment today (Thursday, 28 January 2010), please provide a brief update for the proposed project at the subject property. The update can be forwarded to me and/or Mr. Jack Abel of Watermark Designs Ltd. Contact information for Mr. Jack Abel is below.

02/2/10–Vought–Received message from Kloss (908–534–8820) and returned call and left message.

02/5/10–Vought–Received message from Impact (Kloss) and returned call and left message to return call.

02/10/10–Vought–DEC O'Connell preparing Class II package. Site code received from DEC Spath as:

Site Remediation Code:224139 T&A Code:65335

2/11/10–Vought–Received message from Impact (Kloss cell:908–623–0310) and returned call and spoke to Kloss and informed him of reclassification of site as Class II site. Vought also provided him contact info for DEC Oliva for further information regarding Class II CO and possibly beginning of soil excavation. Kloss noted that he had suspected the site would be listed as Class II and has already prepared Watermark Designs for such possibilities. Vought to complete Remediation Database so that DEC O'Connell can designate new Section A project manager. Received email from Impact (Kloss) that again, thank you for the phone call concerning the latest administrative information for 491 Wortman Avenue, Brooklyn, NY. The initial information is very much appreciated and will be a great help to our client (Watermark Designs Ltd.). Our firm will be reviewing the information with the client tomorrow morning.

2/12/09–Vought–Obtained Lat and Long from Google Earth as:40deg39min40secN and 73deg52min32sec W. Note Google earth based on same datum as DEC GIS system used by DEC O'Connell. Area of lot is .44 acres as per Report and .218 acres when using dimensions from 491 Wortman deed only. Vought to use acreage as per Report as site may encompass other addresses in addition to 491 Wortman. Vought spoke to DEC Barrie and provided acreage of .44 acres and she also will transfer E-docs into UIS database.

02/15/10–Vought–Received email from Kloss to DEC Oliva that Late last week I spoke with Mr. Jeffery Vought (NYSDEC Liaison at this point) concerning the NYSDEC Remediation Case Site Code 224139 assigned to the hazardous waste site project at 491 Wortman Avenue, Brooklyn, NY. Mr. Vought provided a much anticipated update and NYSDEC agency contact information. During the conversation Mr. Vought requested that the owner/operator of the subject property (Mr. Jack Abel – Watermark Designs Ltd.) contact you to discuss a Stipulation Agreement/Consent Order for the project. I was informed that Mr. Abel is out of his office this week and will return on Monday, 22 February 2010. I'm certain Mr. Abel will contact you shortly after his return to the office.

3/11/10–Vought–DEC Oliva sent draft CO to Kloss and Abel.

3/15/10–Vought–Meeting with DEC O'Connell and DEC Austin and spill manager transferred to DEC O'Connell for further action.

3/01/2019 – Site owner entered into a Brownfields Cleanup Agreement as a participant to address the chlorinated solvents in groundwater, soil and soil vapor at the site. BCP Site #C224139. Remedial Investigation completed. Air Sparge/Soil Vapor Extraction (AS/SVE) Interim Remedial Measure construction completed 8/25/2016. Remedial Action Work Plan approved and Decision Document issued on June 1, 2017. Remedy includes an ongoing operation of AS/SVE along with a site cover, SSDS when AS/SVE complete, site management plan and environmental easement. BCP Certificate of Completion issued on 10/24/2017. Site management and monitoring ongoing.





**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**BOWIE RES.: DCHD POTABLE WATER**

1143 RT 82

HOPEWELL JCT, NY NO ZIP PROVIDED

**Spill Number: 0807824**

**Close Date: 10/10/2008**

ADDRESS CHANGE INFORMATION

Revised street:

Revised zip code:

Source of Spill: PRIVATE DWELLING

Notifier Type: Health Department

Caller Name:

DEC Investigator: mbmastro

Spiller: PRISCILLA BOWIE – PRISCILLA BOWIE

Notifier Name:

Caller Agency:

Contact for more spill info: MONIQUE JONES

Spiller Phone:

Notifier Phone:

Caller Phone:

Contact Person Phone: (845) 486-3404

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.

Class: Unknown RP – DEC Field Response – DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
10/10/2008		UNKNOWN	NO		NO	
Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	GALLONS	0.00	GALLONS	DRINKING WATER

Caller Remarks:

CALLER STATES THAT THEY RECIEVED WATER SAMPLE RESULTS FROM A PRIVATE WELL SHOWING 7.2 MICRO GRAMS PER LITTER OF TRICHLOROETHENE.

DEC Investigator Remarks:

10/10/08: Spoke with Monique Jones of the Dutchess County Health Dept. She received the sample results as part of the Town of East Fishkill's sampling law for private wells. She has no phone number for the home owner, Monique Jones will be sending a notification letter out to her. Sample results faxed to DEC. jod Sample results recived and forwarded to Ed M., for forwarding to DSHW. NFA. V.Mc.

01/16/2009 Spoke with Monique Jones this morning. The County HD has done nothing more at the location since reporting the spill. However, she has spoken with both the NYSDOH (Christine Kulow, Oneonta office, 607-432-3911) and with EPA (Lorenzo Bentu(sp?), 212-637-4240). Ms. Jones informed me that EPA has installed POET at this location and several in the vicinity. EPA will call me back. I left a voice mail message. ELM

01/21/2009 Spoke with Lorenzo Bentu of USEPA (212-637-4240) today. The Bowie residence is now 1 of over 40 POETs in the

vicinity of the Hopewell Precision federal Superfund site #NYD066813064. The EPA installed, monitors, and maintains all of these units. I closed the spill not meeting standards. ELM



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**HORNELL CITY WELLS**  
**7423 SENECA RD NORTH**

**HORNELLSVILLE, NY** NO ZIP PROVIDED

**Spill Number: 0909184**

**Close Date: 11/18/2009**

**ADDRESS CHANGE INFORMATION**

Revised street:

Revised zip code:

Source of Spill: UNKNOWN

Spiller: UNKNOWN  
 XXXXXXXXXXXX  
 XXXXXXXXXXXX  
 XXXXXXXXXXXX  
 XXXXXXXXXXXX  
 XXXXXXXXXXXX

Spiller Phone:

Notifier Type: Health Department

Caller Name:

DEC Investigator: pclinden

Notifier Name:

Caller Agency:

Contact for more spill info: LEN FUCCI

Notifier Phone:

Caller Phone:

Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.

Class: Unknown RP – DEC Field Response – DEC Corrective Action Required

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
11/12/2008	11/18/2009	UNKNOWN	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER, DRINKING WATER

**Caller Remarks:**

WHILE DETERMINING LOCATION OF CITY WELLS IN RELATION TO ACTIVE SPILLS, LINDENFELSER LEARNED FROM TOM KLASEUS THAT VOCs HAD SHOWN UP IN SOME ANALYSES OF THIS SUPPLEMENTARY WATER SUPPLY LOCATED IN THE MIDDLE OF A WETLAND BETWEEN SENECA RD AND RT. 36.

**DEC Investigator Remarks:**

THE TWIN WELLS ARE LOCATED 42 DEG 21' 33 NORTH LATT BY 77 DEG 39' 57 WEST LONG., AND ARE ACCESSIBLE BY GATED SERVICE ROAD BEHIND AND BETWEEN THE COUNTRY KITCHEN RESTAURANT AND MONRO MUFFLER.

RECEIPT OF FOUR SEPARATE ANALYSES BEGINNING IN 2007 HAS SHOWN THAT ONLY TCE HAS APPEARED, AND EXCEEDED DRINKING WATER STANDARDS ONCE: 5.5 PPB (USGS SAMPLING 11/12/08). BECAUSE IT IS A NON-PETROLEUM CHEMICAL, THE CASE IS BEING REFERRED TO DIV. HAZ. WASTE

REMEDATION FOR FOLLOWUP. NO FURTHER ACTION BY SPILLS IS NECESSARY.

11/18/09 FORWARDED TO ENVIRONMENTAL REMEDIATION. PAPER FILE REMOVED PER FILE RETENTION POLICY.



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**KEMAL RES.: DCHD POTABLE WATER TCE**  
**1342 ROUTE 82**

**EAST FISHKILL, NY** NO ZIP PROVIDED

**Spill Number: 1200997**

**Close Date: 05/01/2012**

ADDRESS CHANGE INFORMATION

Revised street:  
 Revised zip code:

Source of Spill: PRIVATE DWELLING  
 Notifier Type: Health Department  
 Caller Name:  
 DEC Investigator: VPMCCABE

Spiller: UNKNOWN  
 Notifier Name:  
 Caller Agency:  
 Contact for more spill info: KEMAL

Spiller Phone:  
 Notifier Phone:  
 Caller Phone:  
 Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP – DEC Field Response – Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
05/01/2012		UNKNOWN	NO		NO	
Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	GROUNDWATER

Caller Remarks:

contamination found in well water sample/maybe historical spill

DEC Investigator Remarks:

5-1-12 Called and left message for Monique to return call to dispatch desk. jm Spoke with Monique. She has faxed over copy of lab report from Oct 2010 showing TCE of 17 ppb in well. She believes this may be already known to us as a report spill.

jm 5-12-12 Spoke with Keith Browne and Janet Brown. This site has been a superfund site for many years. Janet will be forwarding this to Albany to handle.

NFA jm



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**MOLT USE AUTO PART**  
**58 HONEYWELL LANE**

**HYDE PARK, NY** 12538

**Spill Number: 1601975**

**Close Date: 05/27/2016**

**ADDRESS CHANGE INFORMATION**

Revised street:

Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL

Notifier Type: Affected Persons

Caller Name:

DEC Investigator: MBMASTRO

Spiller: UNKNOWN

Notifier Name:

Caller Agency:

Contact for more spill info: PAT MOLT

Spiller Phone:

Notifier Phone:

Caller Phone:

Contact Person Phone: (845) 471-8752

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.

Class: Willing RP – DEC Field Response – Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
05/26/2016		UNKNOWN	NO		NO	
Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	UNKNOWN	0.00	UNKNOWN	SOIL GROUNDWATER DRINKING WATER

**Caller Remarks:**

Brown & Caldwell did water testings for prospective sale and found 190 parts/billion of TCE in the well water, although did not find any TCE on the property site. They believe material has leached from an unknown outside source.

**DEC Investigator Remarks:**

This will be handled by Haz Waste, E Moore is the lead for now...mm

6/27/2016 --- RI WP submitted for review last week. It needs some editing; basically amounts to 5 geoprobes to refusal. We likely get revised Plan tomorrow for approval and field work scheduled for late next week. Owner hired Brown & Caldwell: Frank Williams can be reached at fwilliams@brwncald.com , 518-560-5912 or 518-339-7454. The objectives of the proposed investigation are to verify that Molt's water well is in fact screened in bedrock, and to assess the potential presence of TCE in shallow groundwater that might be originating from adjoining properties. Upon your approval we will proceed to implement the investigation. Please contact me if you have any questions or concerns. Thank you. ELM

06/28/2016 Work Plan & approval email in DecDocs---BHY

7/27/2016 -- Investigation confirmed an unidentified offsite source of bedrock aquifer. POET for the onsite well needs to be maintained. This was sent to Albany as a P-site candidate last week. ELM



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**BRIGHTON CLEANERS**  
**3140 CONEY ISLAND AVE**

**BROOKLYN, NY** NO ZIP PROVIDED

**Spill Number: 0710622**

**Close Date: 01/04/2016**

**ADDRESS CHANGE INFORMATION**

Revised street:  
 Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL  
 Notifier Type: Other  
 Caller Name:  
 DEC Investigator: YYWONG

Spiller: JOHN SCHRETZMAYER – BRIGHTON CLEANERS  
 Notifier Name:  
 Caller Agency:  
 Contact for more spill info: JOHN SCHRETZMAYER

Spiller Phone: (631) 234-4280  
 Notifier Phone:  
 Caller Phone:  
 Contact Person Phone: (631) 234-4280

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.  
 Class: Willing RP – No DEC Field Response – Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
10/25/2007		HUMAN ERROR	NO		NO	

  

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN HAZARDOUS MATERIAL	HAZARDOUS MATERIAL	0.00	GALLONS	0.00	GALLONS	SOIL, GROUNDWATER

Caller Remarks:

CASno: **SOIL BORINGS SHOWED CONTAMINATED SOIL – DRY CLEANER COMPOUNDS**

DEC Investigator Remarks:

1/8/08 – Raphael Ketani. I spoke to John Schretzmayer of Associated Environmental (631) 234-4280 regarding the site. He said that they were doing borings and soil and groundwater sampling at the location of a shed behind the dry cleaning store. The shed had held containers of dry cleaning chemicals. They found dry cleaning chemical contamination in the soil and the groundwater. One groundwater sample contained 12,800 ppb of DCE, 2080 ppb of vinyl chloride, and **1700 ppb of TCE.**

There also were some very low hits of benzene and other petroleum chemicals in the water. Oil staining was seen in the soil around a 550 gal. fuel tank. However, the chemical concentrations were very low in the groundwater and the soil, according to Mr. Schretzmayer. I asked whether there were any odors in any neighboring buildings. Mr. Schretzmayer said there weren't.

The site is going to be developed. The owner is Mike Boller at (212) 326-2212/FAX (212) 326-2061. The company is MLV Holdings, LLC at 3140 Coney Island Avenue, Brklyn., 11235.



I told Mr. Schretzmayer that the petroleum chemical concentrations weren't high enough to warrant opening up a spill case and that DEC Spills does not presently have jurisdiction over dry cleaning chemicals in the groundwater. Therefore, I said, we are closing the spill case, but the case will be referred to the Division of Hazardous Materials.

Based upon the type of chemical release, I am closing the spill case.

1/6/09 – Raphael Ketani. Nathan Pinkahsov, attorney (718) 459–2600, called to find out whether the spill case is still open, whether anyone in DEC is managing the case, and what the impacts are regarding the TCE and DCE in the groundwater. He said that he represents a prospective buyer and that he is doing a do diligence search of the records for the site. I told him the case was closed on 1/8/08 and to contact the Division of Hazardous Materials, Hassan Hussein.

Mr. Hussein e-mailed me the following message:

I just received a call from Mr. Nathan Pinkahsov, (718) 459–2600, who identified himself as an attorney performing due diligence on behalf of his client who is a potential purchaser of the above referenced property. He said that you referred him to us for information regarding potential soil and groundwater contamination at the site. Please note that our investigation at this site was limited to determining if there was contamination resulting from operation of the facility's dry-cleaning equipment. In that respect, we referred the case to DAR since has a unit that specifically regulate all aspects of dry-cleaning operations. DAR staff sent us an email on 1/31/08 indicating that the facility was inspected on multiple occasions by 3rd party inspectors and found to be in full compliance with the applicable DAR regulations – see attached email. Therefore, the soil and groundwater contamination remediation remains the responsibility of DER. RCRA has no outstanding violations regarding this facility.

This facility, like so many other dry-cleaning facilities currently being managed by DER, seems to be suitable candidate for one of DER cleanup programs (Brownfields, VCP, etc.).

Mr. Hussein also wrote that he received the following message from Niranjan Gandhi of DAR (see below)=

Hassan & Sam,

We have reviewed the Spill Report (#0710622) sent by Raphael Ketani on 1–8–08, and forwarded by Sam Arakhan for this facility (DEC ID # 2–6107–00588). We have also reviewed our file and records, and found that the facility was In Compliance for the 6NYCRR Part–232 requirements for all their eight 3rd Party Inspection Reports from May 2000 to May 2007. Their next 3rd Party Inspection is due in May 2008.

As already discussed with Hassan, please inform us when you plan to inspect this facility. One of our engineers may also join you for the Part–232 Air Compliance Inspection.

Thanks.

Niranjan

1/9/09 – Raphael Ketani. I reopened the case at the request of Randall Austin, Chief of the Spills Unit. I also tried to contact Mr. Schretzmayer of Associated Environmental (631) 234–4280. I left a message for him to call me back. I also stated in my message that the owner should not develop the site because there are hazardous chemicals in the groundwater that need to be remediated. I also called up Mr. Pinkahsov (718) 459–2600, but could only leave a message that the spill case was reopened.

Mr. Schretzmayer called me back. He acknowledged that I had left a message that the case was being reopened. He asked why. I told him that there are high levels of chemicals in the groundwater that need to be remediated. I told him that no buildings can be constructed on the site until it is cleaned up. He understood, but said that he had no further involvement in the case since doing the phase II. I told him that the case will likely be referred to the Superfund unit within DEC.

1/14/09 – Raphael Ketani. I called up Associated Environmental and asked for Mr. Schretzmayer. The receptionist said that he was out, but she asked whether she could help me. I told her that I needed a copy of the analytical data for the site. She said that she will let Mr. Schretzmayer know that I need a printout of the data and have it sent to DEC.

1/27/09 – Raphael Ketani. I called up Associated Environmental again (631) 234-4280 and spoke to the receptionist again. I told her that DEC still hadn't received the analytical data, nor any reports for the site. She asked whether Mr. Schretzmayer had ever called me back. I said No. She said that she will take my message again and have Mr. Schretzmayer send the reports and data.

Christina of Associated Environmental sent me the 10/9/07 Phase II Subsurface Investigation report. I reviewed the report. Groundwater is at 8 feet below grade. Borings B-1 to B-3 were installed in the vicinity of the UST. B-2, and B-4 to B-7 were installed throughout the site. Soil samples from B-4 to B-7 had no signs of contamination. There were elevated PID readings from soil samples taken from borings B-1 to B-3. B-2 (taken in the metal shed) had suspect odors in a sample from the 8 feet to 12 feet depth. Soil sample B-1 was submitted to the laboratory, but the results were below TAGM. Groundwater samples were taken for B-2 to B-7. 2-methylnaphthalene was a commonly exceeded contaminant. Sample B-2 had a number of very high chlorinated species exceedences of up to 12,800 ppb of cis-1,2-dichloroethene. This chemical was an exceedence in all of the samples. Vinyl chloride exceeded the TAGM limits in B-2 to B-6 and so did tetrachloroethylene.

1/30/09 – Raphael Ketani. A meeting was held with Randall Austin, Chief of the Spills Unit, Jacob Krimgold, head of the PBS Unit, and myself to discuss the case. In the end, it was determined that the owners should be offered the chance to join the brownfield program (if the development project has the time), or be sent a STIP (if the owners want to work fast). They should hire a consulting company to delineate the groundwater contamination, soil contamination, and indoor air impacts.

2/3/09 – Raphael Ketani. I tried to contact Mr. Pinkahsov (718) 459-2600 to find out whether his client had purchased the property, but could only leave a message. I contacted Associated Environmental to find out the present owner's mailing address, but Associated had only the 3140 Coney Island address.

2/10/09 – Raphael Ketani. Mr. Austin approved a letter to Mike Boller of MLV Holdings, LLC. The letter requested that Mr. Boller expand the investigation and remediate the site. I informed him that he can either choose to become part of the Brownfields Cleanup Program or sign a STIP. A deadline of February 23, 2009 was given for his response.

2/18/09 – Raphael Ketani. I received a call from Michael Boller (212) 326-2212 of Brighton Cleaners. He said that he is on top of the situation. He said that the building is empty. They are trying to decide what to do regarding the site's development. They are working on one possible plan with the architect. He is in touch with Mr. Schretzmayer of Associated Environmental. I told him that DEC needs a workplan. He said that we will get one soon.

2/24/09 – Raphael Ketani. I tried to contact Mr. Boller to ask him whether he had decided to remediate the spill via the Brownfield Cleanup Program or whether he wanted a STIP agreement. However, I could only leave a message.

Later, I spoke to Mr. Boller. He said that he was working on an architectural plan and that it will be submitted in the near future. I told him that DEC needed a quicker submission. I also told him that we will be sending a STIP agreement that should be signed by one of the owners of the site and returned to DEC promptly. He sounded upset and told me to do what I needed to.

3/18/09 – Raphael Ketani. The STIP package was sent to Mr. Boller with a deadline of 4/10/09.

4/3/09 – Raphael Ketani. Harry Manesis, an attorney for a potential buyer, called to find out about the status of the site. I told him about the soil and groundwater contamination. He asked me about what the remediation of the site may cost. I told him that it was hard to give a number because the costs depended on many factors. I ball parked the number at from \$5,000 for a simple groundwater collection to \$30,000 for a dig out in selected areas. He said that MLV Holdings, LLC was trying to negotiate and push his client into buying the property. However, given the information he just received, he said he will tell his client to either forget about the purchase, or to negotiate the price way down.

4/23/09 – Raphael Ketani. I spoke to Mr. Boller regarding the site. He informed me that the property was officially sold on 4/21/09. He said that they agreed to do the environmental remediation work and will start on it very soon. I asked him for the owners' name and address. He said that he wasn't privy to this and that the owners told him that they will contact me soon.

I looked up the sale transaction in ACRIS. The date of the deed is 4/22/09. The deed shows that MLV Holdings LLC sold the property to 3140 Coney Island Realty, LLC at 3140 Coney Island Avenue, Brklyn, 11235. However, the mortgage shows that MLV is the lender/mortgagee and 3140 C.I. Realty is the mortgagor/borrower. (MLV Holdings is listed as c/o Mike Voller, 2800 E. 29 Street, #2E, Brklyn, 11235.)

5/19/09 – Raphael Ketani. A meeting was held today between Randall Austin, Chief of the Spills Unit, Jacob Krimgold, Head of the PBS Unit, Jennifer Kann, EE I in the PBS Unit, and myself. The meeting took place to discuss the spill case and whether the PBS Unit will take it over. During the meeting, it was decided that the Brighton Cleaners case will go to Ms. Kann.

As per Mr. Austin, I am switching the case manager name to Jennifer Kann.

6/19/09: J.Kann – spoke with John Schretzmayer of Associated. He will be emailing me the new owners information and said that the new owner will likely sign a STIP. He will also be preparing the work plan for investigation.

07/10/09: J.Kann – stipulation agreement sent to Mr. Oleg Blimshteyn, 3061 Brighton 6 Street, Brooklyn, NY 11235 . This owner information was provided by Mr. Schretzmayer.

08/17/09: J.Kann – signed stipulation agreement received on July 31, 2009. Cover Letter prepared and forwarded to Lou Oliva on August 17.

08/19/09: J.Kann – stip signed by S. Mattei on August 18. Stip edoced.

09/09/09: J.Kann – executed stip forwarded to Associated Environmental.

10/07/09: J.Kann – email sent to Associated indicating that the Work Plan is past due.

10/08/09: J.kann – Work Plan submitted and edoced.

10/20/09: J.Kann – Comments sent via email today– The Department has reviewed the work plan prepared for the referenced site and dated September 21, 2009. The Department has the following comments:

1. Proposed groundwater sampling depths are the groundwater interface, 25–27 feet and 50–52 feet. What was the basis for choosing these sample depth locations? Is there any knowledge of possible confining layers in the soils beneath the site?

2. The proposed boring/well locations include many off-site downgradient locations. Given that perc was detected at elevated concentrations throughout the site, additional sampling points should be collected on the site at greater depths (for instance B-3 had 103 ppb perc). In addition, an upgradient sample location would aid in plume delineation.

3. Is the building shown in Figure 2 on an adjacent property? Please clearly label the site boundary. In addition, assumed groundwater flow direction should be identified in the figures.

A revised work plan addressing the above comments should be submitted to the Department within 30 days. If you have any questions, please call me at 718-482-4977.

12/9/09: J.Kann – sent reminder email to consultant indicating that the report is past due and a violation letter will be sent out if the work plan is not received by Friday. Consultant called and comments from the October 20 email were discussed.

12/11/09: J.Kann – a revised work plan was received (edoced)

01/07/10: J.Kann – revised work plan approved. Report due March 4, 2010.

1/14/10: J.Kann – observed field work being conducted along Brighton Beach Avenue. Dave from Associated was present. Groundwater samples were being collected.

2/9/10: J.Kann – spoke with Gregory of Associated Environmental. He is preparing the RI/RAWP and he indicated that the most impacts are in the soil and the groundwater on site. The report is expected to be submitted within two weeks.

2/23/10: J.Kann – site investigation report/remedial action plan submitted on 2/15/10 and edoced.

3/24/10: J.kann – sent email to J. Harrington on 3/22 requesting guidance. J. harrington provided comments in an email from 3/24 (edoced)

4/22/10: J.Kann – provided comments to Associated environmental in an email (edoced).

7/6/10: J.kann – work plan was due June 22nd. An email went out on June 29th reminding the consultant that the plan was past due and that it must be submitted by July 2nd. Work Plan submitted on July 2nd (edoced).

9/20/10: J.Kann – comment letter sent out (edoced).

1/6/11: J.kann – revised work plan received on 12/5/10.

4/4/11: J.Kann – spoke with Joe O'connell on how to proceed with this site on 3/11/11. Based on high levels of perc in soil and groundwater needed to confirm with Albany if site should remain in non-petroleum stip or if it should be transferred to another section. Conference call held with Bob Cozzy, Jane O'Connell, Joe O'Connell on March 30. Based on the call, B. Cozzy said until we have off-site concerns the site will remain in the stipulation. Samples collected to date, are limited to on site soils and on-site and off-site geoprobe groundwater grabs, which show significant contamination on site, with minimal impacts off-site. Additional sampling was proposed and approved, which includes soil and groundwater sampling in an adjacent property, sub-slab/indoor/ambient air sampling at three properties and the installation of three wells on site. The revised work plan was approved in a letter dated March 31, 2011.

4/7/11: J.Kann – Wanted to add that in the conference call of 3/30 it was questioned whether to involve DOH at this point. It

was decided by B. Cozy to hold off until we receive the results of this round of sampling.

6/9/11: J.Kann– UST removal work plan submitted via email on 6/7/11 (edoced). Does not propose to dispose of soils as hazardous waste. Consultant informed that soils are listed wastes (edoced). Consultant requested a meeting and meeting was scheduled for 6/14/11 (this entry was added on 9/19/11).

6/14/11: J.Kann – Greg Ernst of Associated met with Joe O'connell and myself to discuss the site. No off-site access has been granted for subslab/indoor/ambient air sampling to date. Two attempts have been made via certified mail. All perc contaminated soils on-site are listed hazardous waste per 371.

6/23/11: J.Kann – access letters sent out to adjacent property owners on June 9, 2011 email to the Department. (letters edoced and entry added on 9/19/11)

8/8/11: J.Kann – Oleg Blimshtyn (site owner) called and asked for information about the BCP. I provided him with Jane O'Connell's number.

9/12/11: J.Kann – received message from Greg Ernst indicating that they plan on excavating all contaminated material and disposing of it as hazardous waste. No plan was submitted; he said he would hopefully submit it in the next day or two. He asked if it was okay to install sheet piling. I told him I would need to discuss the site with Joe. I called him back and asked him to confirm the type of shoring to be installed. He was not sure and said he would get back to me.

9/15/11: J.Kann – recved another message from greg on 9/13. He said that H beam and lagging was going to be installed. He wanted to know what the Department's position was on it. Meeting to discuss how to move forward with the site scheduled internally.

9/16/11: J.Kann – sent an email to Greg Ernst at Associated on 9/15 indicating that the Department has not recieved the SRIR and it's not clear what the shoring work will entail and also that his client is in violation of the stipulation agreement. (edoced). Rcvd the SRIR this morning and edoced it.

9/29/11: J.Kann – rcvd a phone call from Oleg Blimshtyn (917-977-0734). Told him that Bryan Wong is the new project manager and provided Bryan's phone number to him.

10/14/11: B.Wong – met with property owner, Mr. Oleg Blimshtyn and his consultant, Greg Ernst from Associated. Mr Blimshtyn express interest in filing an application to join the BCP program and anticipated to have the application sent to the department by 10/28/2011. 12/15/2011: B.Wong – BCP application for the 3140 coney island avenue property was received by the departemnt and it is under review. 4/12/12: B. Wong – BCA executed and cleanup will be done under the BCP with site No. C224157. 7/20/2012: B.Wong – received email from consultant (PW grosser),for the BCP site (C224157) informed me that groundwater sampling during the RI working on July 19, noted about 1 inches of petrolem producted detected in one of the well installed in July 2012. 1/4/2016: B. Wong – on site remediation completed as of December of 2015, and Final Engineering report for C224157 was approved and COC issued on 12/17/15. The off-site project under C224157A is pending to obtain additional data to assess extend of contamination migrate off-site in groundwater, and Vapor intrusion off-site.



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**DRY CLEANERS**  
**715 WHITE PLAINS RD**

**EASTCHESTER, NY** NO ZIP PROVIDED

**Spill Number: 0713424**

**Close Date: 03/20/2008**

ADDRESS CHANGE INFORMATION

Revised street:  
 Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL  
 Notifier Type: Other  
 Caller Name:  
 DEC Investigator: dvwehfr

Spiller: CHARLES BRINK – DRY CLEANERS  
 Notifier Name:  
 Caller Agency:  
 Contact for more spill info: CHARLES BRINK

Spiller Phone:  
 Notifier Phone:  
 Caller Phone:  
 Contact Person Phone: (203) 562-5771

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP – No DEC Field Response – Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
03/19/2008		UNKNOWN	NO		NO	

  

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TETRACHLOROETHYLENE (PCE)	HAZARDOUS MATERIAL	0.00	GALLONS	0.00	GALLONS	GROUNDWATER

Caller Remarks:

found very low levels of this and trichloroethylene in the groundwater; the highest concentration was 7.8 mg/l; it is a historical suspected release; they discovered it during the investigation; dry cleaners is no longer there and have not been there for over 20 years.

DEC Investigator Remarks:

3/20/08: Spill is only TCE. nfa Copy to R. Pergadia. dee



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**DEWALT PORTER CABLE STORE**  
56-15 QUEENS BLVD

WOODSIDE, NY NO ZIP PROVIDED

Spill Number: 0811202

Close Date: 08/16/2016

ADDRESS CHANGE INFORMATION

Revised street:  
Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL  
Notifier Type: Other  
Caller Name:  
DEC Investigator: MXMAGLOI

Spiller: UNKNOWN  
Notifier Name:  
Caller Agency:  
Contact for more spill info: ROBIN MCKINNEY

Spiller Phone:  
Notifier Phone:  
Caller Phone:  
Contact Person Phone: (860) 410-3000

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.  
Class: Willing RP – No DEC Field Response – Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
11/03/2008		UNKNOWN	NO		NO	

  

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
UNKNOWN PETROLEUM	PETROLEUM	0.00	GALLONS	0.00	GALLONS	SOIL

Caller Remarks:

CALLER STATES THAT THEY GOT RESULTS BACK SHOWING SOIL CONTAMINATION. HISTORICAL SPILL. CLEAN UP IS PENDING.

DEC Investigator Remarks:

1/12/09 – Raphael Ketani. The site is the Dewalt Porter Cable Store. The contaminated soil was discovered on 11/3/08, but not reported until 1/9/09. Property Shark lists the site as 4332 57 Street in Woodside, Queens with alternate addresses of 56-07 to 56-15 Queens Blvd. The block and lot are 1329 and 0001. NYC Property Tax lists the ownership as Black and Decker, Inc., 626 Hanover Pike, Hampstead, MD, 21074. ACRIS list the ownership as Black and Decker, Inc., 701 E. Joppa Road, Towson, MD, 21204. I will send CSLs to both addresses.

The PBS case is #2-610985. There is a 2,000 gal. UST that had #2 oil, but was closed in place on 5/7/87.

I called up Robin McKinney of Loureiro (lo-re-ro) Engineering Associates, Inc. (860) 410-3000 regarding the case. She said that the contamination is chlorinated solvents, not oil. She said that the spill is in the same location as an oil tank case that is being handled by Veronica Zhune of DEC Spills Region 2. Ms. McKinney said that the company address is 100 Northwest Drive,

Plainville, CT, 06062. She added that the address for Black & Decker is 701 East Joppa Road, Towson, MD, 21286, and that the CSL should go to Linda Biagioni.

A little while later, Dave Scotti of Loureiro called in a conference call with Ms. McKinney. He explained the situation to me. He said that there was a release about 20 years ago. The site used to have a basin or possibly a tank in the ground for holding spent chlorinated solvents. The solvents were used to degrease steel. The site was a repair shop. The location of the contamination was delineated both vertically and horizontally. The area of contamination is 5 feet in radius and about 10 to 13 feet down. TCA and TCE are the contaminants. There are indications of NAPL also. The highest analyte concentration is 9700 ppm. A report exists for the analytical results. I asked Mr. Scotty to send me the report. He said that he will.

1/14/09 – Raphael Ketani. I spoke to Ms. McKinney and asked her for a report listing the chlorinated solvent data. She said that she had sent out such a report yesterday.

1/15/09 – Raphael Ketani. I received the analytical data package for soil samples that were collected 11/3/08.

Sample #162: high exceedence oil analyte hits, very high chlorinated solvent hits to 9700 ppm Sample #163: chlorinated solvent hits to 1.7 ppm Sample #164: elevated oil analyte hits, chlorinated solvent hits to 160 ppm Sample #165: elevated oil analyte hits, chlorinated solvent hits to 90 ppm Sample #166: very low chlorinated solvent hits below 0.02 ppm Samples #167 and #168: completely non-detect

I called up Ms. McKinney and asked her to send me a site map showing where the samples had been taken and any reports that were available. She said she will.

1/21/09 – Raphael Ketani. Ms. McKinney called me and said that they are putting together the boring location maps and the data sheets for a report to DEC.

1/27/09 – Raphael Ketani. I received the Phase I Environmental Site Assessment Report & Subsurface Investigation Report, along with fold out plans and data tables. I began my review. The Phase I indicated that there was a UST at the site that had not been used since 1972. Degreasing took place in the western part of the building into the early 1980s. Spray painting took place until 1980. Waste oil was stored in a 55 gal. drum. This part of the building is now a beautician's supply store. There was a 3 feet deep drainage pit for rain water adjacent to the northeast corner of the building with a soil bottom. The depth to groundwater is 66' to 70'. Drawing No. 2 dated 1/20/09 shows TCA vapors up to 150,000 ug/m<sup>3</sup>, and TCE vapors to 50,000 ug/m<sup>3</sup>. Drawing No. 3 dated 1/21/09 shows a visual display of specific analyte hits with site BS-013 having the worst contamination by far (the site of the former spent solvent holding tank) and sites SB-014 and SB-015 having heavy contamination.

I E-doc'd all of the files from the disc successfully.

1/30/09 – Raphael Ketani. A meeting was held with Randall Austin, Chief of the Spills Unit, Jacob Krimgold, head of the PBS Unit, and myself to discuss this case. At the end it was decided that an on-site meeting should take place with the consultant to determine what the site conditions are and what needs to be done to remediate the site. The objective will be to scope out the chlorinated solvent impacts and the possible oil impacts from the UST. I called Ms. McKinney (860) 410-3000 and asked that a meeting take place on site. She said that she will get back to me with a date that's good for everyone.

2/2/09 – Raphael Ketani. I spoke to Ms. McKinney. We set up an appointment to see the site for thursday, 2/5/09, at 1:30PM.

2/5/09 – Raphael Ketani. I met David Scotti and Robin McKinney as planned. They showed me the site. Dewalt Porter turned out to be a functioning tool retail store. They had expanded back into the former beautician supply store area. This back area is



servicing as a storage area and parts washing tub area (see pictures in E-docs). George Newton of Crystal Clean (a parts washing apparatus salesman; (914) 788-5220) was setting up a new tub which runs with a sealed lid. Ms. McKinney and Mr. Scotti showed me the former degreasing area for the store. This small room is the western end of the store. There was nothing inside of the room today and it did not look like any equipment had been there for some time. Mr. Scotti and Ms. McKinney showed me where they had taken the soil vapor borings through the floor of the store.

We went outside and they showed me the locations of the groundwater monitoring wells, the soil gas sampling wells, the location of the oil UST and the former location of the spent solvent UST. Mr. Scotti stated that the soil gas wells are in clusters of three. The horizons sampled are the surface, 15 feet down and 30 feet down. He also said that the area of the former solvent UST and the surrounding soil will be dug out. After this, I left as there was nothing more to see and no more information to be gained presently.

2/6/09 – Raphael Ketani. I spoke to Ms. McKinney today. She said that groundwater flow is due south or southeast. I asked her why there were no wells between MW-01 and MW-05, or downgradient from the former solvent UST location. She said that they put wells only at areas of concern (the degreaser room vent, the former location of the spent solvent UST, and the location of the oil UST). She said that they recently took another round of groundwater samples and they should arrive at Loureiro next week. I asked her to send DEC a copy of the tables for the data. She said she will. Lastly, I asked her which chemicals were used by the store for degreasing and cleaning. She said it was TCE.

From Table 3 data summary table, MW-04 was sampled on 5/8/08 and had 9.4 ppb and 9.7 ppb of TCE. MW-05 was sampled on 11/14/08 and had 37 ppb and 38 ppb of TCE. Well MW-05 also had several other chlorinated species exceedences. However, MW-1 had a hit of 60 ppb. This well is about 120 feet to the west of the other wells. It suggests that there is another source of solvents.

Mr. Austin talked to me about the groundwater contamination. He said that the numbers were low and that, from looking at the data, there is no need to install additional wells at this time. Therefore, a groundwater delineation should not be requested and DEC should look at the next round of data and then decide whether the groundwater investigation should be expanded.

2/11/09 – Raphael Ketani. Ms. McKinney sent me the groundwater analytical data from the 1/22/09 round of sampling. Wells MW-1 and MW-2 weren't sampled because they were dry. Well MW-3 is silted in. The VOC hits were from non-detect to the middle double digits (i.e. 49 ppb).

2/24/09 – Raphael Ketani. Mr. Scotti (860) 410-3000 called me to discuss the latest round of groundwater results. I told him that the DEC had reviewed the groundwater analyticals and had concluded that the contamination was relatively low. I told him that the remediation issue was mainly the excavation of the contaminated soil. Mr. Scotti said that he can't get a DOB permit to do the excavation without an approved plan. I told him to submit a work plan to DEC. I will review it, and if it's approvable, then DEC will send an approval letter which can be used to get the DOB permit. Mr. Scotti said that he will do this.

3/5/09 – Raphael Ketani. I spoke to Mr. Scotti (860) 410-2976 regarding the submission of a work plan. I told him that everything has to be dug out that is exceeding TAGM limits. He said that he will submit the plan. I told him to do so quickly as this case has been dragging on with no progress.

3/16/09 – Raphael Ketani. I spoke to Mr. Scotti regarding the submission of the work plan. He said that they are working on it. He added that he has been talking to Jane O'Connell, head of the brownfields and super fund program, and Jacob Krimgold, head of the PBS Unit, regarding what it would mean for his client to remediate the site under a STIP. He said that he has to talk to his client about the STIP agreement. However, he felt that his client would prefer to do without the STIP.

3/26/09 – Raphael Ketani. Mr. Scotti sent me an e-mail that his client would like to enter into a Stipulation Agreement for the

remediation of the site. I e-mailed back that I will write a STIP and send it to him. I added that the oil spill remediation case that had been managed by Veronica Zhune (#0800371) had been closed and combined with this case.

5/5/09 – Raphael Ketani. On 4/30/09, Mr. Scotti (860) 410–2976 had called requesting the status of the case in DEC. I told him today that the head of the PBS Unit and the Spills Unit and myself have to meet on this case and decide what needs to be done. I told him to sit tight.

5/12/09 – Raphael Ketani. Mr. Scotti called again. He asked what the status was regarding where the case will be sent to, who will handle the spill case, etc. I told him that things have been a little hectic around here and so the internal meeting concerning the case has not taken place yet. He said that they are still working on the shoring and remediation plan. I told him to keep working on the plan and to submit it to DEC as soon as it's completed and approved. He said he will do this.

5/19/09 – Raphael Ketani. A meeting was held today between Randall Austin, Chief of the Spills Unit, Jacob Krimgold, Head of the PBS Unit, Jennifer Kann, EE I in the PBS Unit, and myself. The meeting took place to discuss the spill case and whether the PBS Unit will take it over. During the meeting, it was decided that the Dewalt Porter case will go to Ms. Kahn.

I left a message for Mr. Scotti requesting the owner's name, title, company name, and address. This information was needed so that the STIP package could be sent to the person who is the responsible party.

As per Mr. Austin, I am switching the case manager name to Jennifer Kann.

5/20/09 – Raphael Ketani. Mr. Scotti sent me an e-mail indicating who should receive the STIP package. The person is listed below:

Ms. Linda H. Biagioni Vice President Environmental Affairs The Black & Decker Corporation 701 East Joppa Road Towson, MD 21286–5502 Tel. 410.716.3208

5/21/09 : J.Kann – spill transferred from R.Ketani to J.Kann. Stip, Cover Letter and CAP mailed to Ms. Biagioni today and emailed to Mr. Scotti. A site visit is tentatively scheduled for May 29th at 10 AM. J.Kann

5/29/08: J.Kann – met at the site with Mr. Scotti. Discussed the results of the investigation.

6/11/09: J.Kann spoke with Mr. Scotti about the site and requirements for closure. We discussed that groundwater impacts are minimal, soil excavation (source removal) will occur and that soil vapors will be monitored after excavation is complete. Indoor air samples should also be collected after remediation and at that time a determination will be made regarding whether or not additional work will be necessary (i.e. an SSDS for the on-site building).

6/16/09: J.Kann – Stip received for the site from Dewalt. Cover memo prepared and forwarded to Lou Oliva.

6/19/09: J.Kann – Stip executed by RD on 6/17. Edoced.

6/24/09: J.Kann – received a call from Dave Scotti. He's concerned that the excavation may cost more than initially estimated. He's looking into alternatives for treatment. He is still planning on submitting the reports in approximately two weeks.

9/30/09: J.Kann – site discussed at meeting with B. Cozzy.

10/13/09: J.Kann – A dry well was located on the site in August 2009 after investigating an anomaly present at the site. Emails were sent on 8/19, 8/31 and 9/9 and 10/6 requesting the RI be submitted. The RI was submitted on October 9 and is under review.

(Edoced text only – requested that a complete file with all appendices be forwarded to the Department)

10/13/09: J.Kann – received email from J. Krimgold indicating Since both sites (DeWalt and Brighton) are already under CO, they should stay this way (no P–site memo for now).

10/27/09 – J.Kann – Additional reports on soil vapor sampling and test piting investigation were submitted on October 16. The consultant called on October 27. The RAWP will be submitted on November 2. A few issues were discussed –they (consultant LEA) would like to remove the dry well at the site. In order to do so, they need a permit from NYCDOB, who wants a letter from DEC. I told them it is possible to consider the drywell removal as an IRM, but I need to review something in writing. –there is an existing petroleum tank under the building. It was investigated and appears to not have been properly decommissioned. They will need to decomission it as part of the work.

11/3/09: J.Kann – IRM work proposed in a letter submitted on October 30, 2009. IRM Letter reviewed, and approval letter with minor comments sent on November 3.

11/5/09: J.kann – email sent to DOH requesting some guidance. Email text is as follows: Mr. Crua–

This email is to request guidance from you on a site currently in a stipulation agreement with the DEC.

The site is DeWalt Porter Cable located at 56–15 Queens Blvd. Contaminates on the site consist primarily of chlorinated solvents (TCE and TCA) in the soil and soil vapor. Degreasing and spray painting acitivities have historically occurred at the site, although current operations are primarily retail and tool repair. The site covers 0.37 acres and a residential property (apartments) is directly to the north. Some findings of the RI, which I am currently reviewing, include the following:

--TCA concentrations in soil gas samples collected ranged from 470 ug/m3 to 150,000 ug/m3, and TCE soil gas ranged from 140 ug/m3 up to 83,000 ug/m3 across the site. Based on the contours provided in the RI, elevated soil vapor concentrations likely extend beyond the property line.

--Three indoor air samples were collected in the on–site building in March 2009. No chlorinated VOCs were detected above the laboratory detection limit in these three samples.

My main question at this time is whether anything needs to be done regarding the residential building adjacent to the site (which we believe to have a basement apartment) and is approximately 25 feet north of the soil hot spot . In addition, please let me know if you may have any other concerns.

I've attached the text of the RI and the March 2009 soil vapor sampling report to this email.

Thanks for your help. –Jennifer Kann

11/10/09: J.Kann – DOH replied indicating that they would like subslab and ambient air sampling performed at the adjacent property. they also indicated that based on teh information they have that they would like continuous monitoring or mitigation for the on–site building. This information was emailed to the consultant, Robin McKinney today.

11/18/09: J.Kann – message from Dave Scotti received on 11/11. Emailed Dave on 11/17 to let him know I received the RAWP. (RAWP received on 11/12). He responded with a question

Also, with regard to your November 10, 2009 email and NYSDOH comments, it is believed that the implementation of the IRM (within

the next few weeks) and implementation of the RAWP (hope to install Thermal-Enhanced SVE components in December) will eliminate the secondary source of contamination. These activities will be followed-up with soil vapor monitoring along the perimeter of the property and indoor air sampling for the site building. Are these remediation activities adequate mitigation measures to obviate the need for sub slab and ambient air sampling at this time?

DOH was forwarded his question on 11/18. DOH's response was The short answer to their question is no. The long answer is until we have a handle on the extent of the off-site migration of site related contaminants of concern (coc) they will have to continue to investigate, especially to characterize the potential for vapor intrusion into neighboring structures. This SVE stuff may work great for on-site and it may eventually prevent further off-site migration of site coc's but we need to know now what is happening in adjoining structures.

The email response forwarded to Dave Scotti on 11/18 read as follows: As per DOH, the need for the off-site sub-slab and indoor air sampling is to define the extent of contamination in the vapor phase and to determine if human exposures are occurring off-site. The concern is that the IRM and remedy are site specific and cannot ensure effectiveness in off-site areas. If you want to discuss this further, I can arrange a conference call.

11/19/09: J.Kann – conference call between DOH, DEC and LEA arranged for December 1.

12/1/09: J.Kann – discussed need for off site subslab and indoor air sampling with DOH and the consultant( LEA). LEA agreed to off site work if client okayed it.

12/7/09: J.Kann – off site subslab work plan submitted after COB 12/3. Forwarded work plan to DOH this morning. DOH had not comments. Reviewed plan and forwarded email to LEA indicating that the work plan was reviewed by DOH and DEC and we have no comments.

12/10/09: J.Kann – forward RAWP to J. Harrington for input.

12/14/09: J.Kann – speak with J. Harrington about the proposed RAWP for the site. Comments from our discussion include the following: 1. The detailed design will need to demonstrate that eluted vapors (from groundwater) will be captured by the mitigation system. 2. Vertical extent of contamination is not delineated at SB-13. This information/boring can be obtained/advanced during installation of system. 3. Performance criteria will need to identify unrestricted cleanup numbers.

4. The consultant should address why a depth of 35 feet was selected for the design of the thermal probes.

12/28/09 : J.Kann – Indoor Air and sub slab sampling performed at the adjacent site.

1/12/10: J.Kann – DOH requests copy of RAWP on 1/7/10. RAWP forwarded on 1/12/10.

1/13/10: J.Kann – Internally it was discussed whether or not an air permit will be necessary for this site. Based on discussions with L. Oliva, it is determined that it is not because they are under a stip/order. The air discharge limit that they will need to meet is 0.5 lbs/hour. Emails edoced contain info on this discussion.

1/19/10: J.Kann – laboratory analyticals received on 1/15/10. Forwarded to DOH. TCE detected in indoor air and in sub slab. Conference call set up with DOH for Thursday January 21.

1/21/10: J.Kann – call held with DOH and LEA. DOH wants 3 additional structures tested for sub slab and indoor air. DOH wants the adjacent structure where elevated concentrations of TCE were detected to have a mitigation system installed. The owner of

that building is to be notified by LEA and data validation should be completed.

1/21/10: J.Kann – spoke with J. Krimgold regarding cleanup criteria for the site. The RAWP indicates a goal of restricted residential. Given that this site is being handled as a non-petroleum stip guidance was sought for cleanup criteria. Jacob agreed to allow the restricted residential to be used. DOH was sent an email regarding this so that they could move forward with their review of the RAWP.

1/26/10: J.Kann – draft letter prepared by consultant to be sent to property owner of 43–50 57th Street. DOH provided comments.

2/1/10: J.Kann – Revised letter sent to property owner of 43–50 57th Street notifying them of sampling results. Consultant (LEA) sent request for access letters to the additional 3 properties.

2/8/10: J.Kann – email from LEA indicates that the church owner has agreed to sampling, but has not returned the access letter yet. LEA has not heard from the other two owners yet. A pilot test for the remedial system is scheduled for March 6, 2010. The DOB permit was obtained for the excavation work and it will likely be scheduled for the first week of March.

3/2/10: J.Kann – received DOH approval letter for the RAWP on 2/15/10. Adjacent property (church) was sampled on 2/23/10. Discussed issue of environmental easement with legal and determined that a deed restriction could be issued if necessary. DOH was notified and agreed that a deed restriction was fine. Visited the site on March 2. Clean soils were being unloaded. Plan to visit the site again on March 4.

3/5/10: J.kann – RAWP acceptance letter was sent on March 4 (edoced). Visited site on March 5.

5/26/10: J.Kann – Installation of the remedial system started in late March and is on-going. Indoor air and subslab sampling was performed by LEA (the RP's consultant) at the adjacent church (56–01) and results submitted on March 28. DOH reviewed them. Additional work was proposed by LEA for the church in an email of April 29. LEA contacted the owners of 43–25 56th Street and 43–28 57th Street. Access was denied at 43–25 56th Street for vapor sampling and no response was received for 43–48 57th Street. The owner of 43–30 57th street, where DOH determined mitigation was necessary, refused installation of a system. DOH's email response is edoced (it states that it is the homeowners decision whether or not to install). In addition, a work plan for indoor air and sub-slab sampling at 43–26 57th Street and 43–21 56th Street was submitted on 5/17 and approved on 5/26. A site visit was made on May 6.

7/27/10 – J.kann – Notification letter to owner of 56–01 Queens Blvd prepared by LEA was provided to the Department on June 15, 2010. After review of the data, DOH stated that vapor intrusion is occurring at 56–01 and action should be taken. LEA prepared an additional vapor investigation work plan for 56–01 and submitted it to the Department on July 26. The Department had one comment on the plan which was addressed and DOH had no comments.

For on-site work, there were issues related to the delivery of some of the components of the remedial system (some were damaged in shipment). New equipment should be delivered to the site on August 2 with a start-up date one to two weeks after.

8/12/10: J.Kann – visited site on 8/6/10. System was installed and waiting for cable hook up before start-up so that it could be monitored remotely.

An issue came up on Monday 8/9 regarding the possible need to inject saline into the water because resistivity of soils was higher than originally tested for. Based on the following information provided by the consultant (LEA) in an email of 8/10:

1.000

The material to be injected is salt (NaCl) – salt tablets to be used (similar to those put in water softeners). See the attached MSDS. (this was edoced) 2.

The concentration during the injection period will be approximately 5,000 micrograms/liter (5 parts per million). 3.

The duration of injection may be for the entire project. The duration may be reduced, pending results. 4.

The salt tablets will be placed in a bag filter through which the potable water will flow. The salt water will be pumped through the Water

Circulation System (WCS) to the electrodes installed within the ground.

After consultation with Jim Harrington of Albany, a determination was made that this would be acceptable and the consultant was notified.

The system was to start up on 8/12/10. As of 3:00 they were still attempting to start it up. The vacuum blowers are located in an enclosed insulated shed and the chiller is not expected to produce much noise, however the consultant will take decimeter readings next week (original readings showed little above background).

9/15/10 : J.Kann (forgot to include info originally– information put here on 1/13/11) Following a site visit of 9/9 LEA sent the following email on 9/15/10 Our current operations and maintenance (O&M) schedule for the Woodside treatment system is once a week, usually on Wednesdays. During each O&M event we take total volatile organic compound (VOC) readings using a photionization detector (PID). PID readings are taken from the following points on the treatment system: 1) influent from the multi-phase extraction well field, 2) effluent from the vapor discharge stack, located after the three vapor granular activated carbon (GAC) vessels and 3) effluent from the Stripper discharge stack. Once per month we will also be collecting vapor samples in Summa canisters of the system's influent and the effluent from the vapor discharge stack. The samples collected in the Summa canisters will be submitted to the laboratory for analysis of VOCs using Environmental Protection Agency (EPA) Modified Method TO-15. We plan to collect our first round of vapor samples using Summa canisters today. After this initial sampling event we will also collect a third vapor sample using the Summa canister from the sample port located in between the first and second vapor GAC vessels on a monthly basis. This additional sampling point will help establish when the first vapor GAC vessel in series has become saturated with VOCs.

10/15/10: J.kann – the following email update was provided by LEA: In mid-late September, for a period of about two weeks, the soil remediation system was shut down to address some electrical issues raised by ConEdison. Those issues have since been resolved and the system was restarted on October 4th. On September 29 and 30th we sampled sub-slab vapor and indoor air from the church property (56-01 Queens Boulevard) located adjacent to the west of the Site. We also collected another round of vapor samples from the two sets of nested vapor probes located on the western edge of the Dewalt property. We planned to collect vapor samples from beneath 56th Street concurrently with the samples collected from the church, but were not able to due to conflicts with multiple utilities beneath the roadway. Once we receive the data collected from the church, we will assess the need to delineate vapor at points further to the west. We will forward you this data once they are received from the laboratory. We are in the process of drafting a work plan to collect indoor air and sub-slab vapor samples from an additional five to six properties in the vicinity of the Dewalt property. This work plan should be finalized and sent to you by next week.

10/21/10: J.Kann – A work plan to sample indoor air/sub slab at 5 additional locations in the vicinity of the site was submitted on 10/15 to DOH and DEC and was jointly approved on 10/19. In addition, a draft notification letter for the owner of 43-26 57th street was submitted on 10/15 to DOH and DEC. DOH feels mitigation is warranted at the site. An email was sent to LEA informing

them of this on 10/19/10.

10/22/10 – J.Kann – edoced response letter (to RAWP comments) dated 7/22/10.

10/28/10: J.Kann – LEA (consultant) mailed out letters to additional property owners requesting access for subslab and indoor air sampling on 10/27/10.

11/9/10: J.Kann – notification letters for 56–01 Queens Blvd and 43–26 57th Street were sent to the property owners (edoced).

11/30/10: J.Kann – Sampling of 3 additional homes on 57th Street was performed the weeks of November 15 and November 22. Pilot tests for mitigation systems in 56–01 Queens Blvd and 43–26 57th Street is tentatively scheduled for the week of December 6th. Access agreements have not been executed yet, so this date is tentative. The VE extraction portion of the system is running and capturing volatiles. However, Con Ed says they were picking up stray voltage potential from the heating portion of the system, so the consultant had to shut it down and re-evaluate how else they could heat the soils. They are going to further discuss this with Con Ed in December.

12/1/10: J.Kann – received email from Dave Scotti of LEA providing the following summary

As discussed with you earlier today, Con Edison is not willing to allow us to operate the electro-thermal resistivity heating remediation system (ET-DSP system) due to safety concerns regarding stray potential (energy). This has been an on-going issue for several months, and it is apparent that we are at an impasse with Con Edison (see summary of events provided below\*). While we have continued to operate the Soil Vapor Extraction (SVE) component of the system on a continuous basis, the SVE system needs to be augmented with thermal enhancements to achieve the goals for the site in a timely manner. Fortunately, the relative permeability of the formation soils provides an alternative to thermal enhancement through steam injection. Our proposal to implement this modification to the thermal enhancement component of the SVE system is outlined in the attached document. We are requesting your approval to authorize us to proceed with this modification. I will look forward to hearing from you on this matter. Should you or anyone on your team have any questions regarding this request, please feel free to call me directly at 860.410.2976. Thank you.

\*On September 22, 2010, Con Edison recorded stray potentials in the public right-of-way adjacent to the Dewalt property during one of their routine surveys. The stray potentials were traced back to the ET-DSP remediation system operating at the site. Con Edison shut-off power to the system and Joe Watson of Con Edison notified Loureiro Engineering Associates, Inc. (LEA) on September 23, 2010 that the system cannot operate if it produces any stray potential (anything greater than zero). We notified our remediation specialist, McMillan & McGee Corp. (MC2) so that they could resolve the issue with Con Edison. After repeated attempts to contact Con Edison to discuss this issue, MC2 was able to speak with Brendan Riley of Con Edison. MC2 explained the temporary operation of the system to Mr. Riley and their difference of opinion regarding safe operating practice. On October 4, 2010, Wayne Robella of MC2 spoke with Jose Diaz of Con Edison. Mr. Diaz authorized MC2 to turn on the ET-DSP system to perform tests.

On October 5, 2010, Mr. Robella met with Mr. Diaz at the site to discuss the operation of the system. Mr. Robella was able to explain ET-DSP technology to Mr. Diaz and how the ET-DSP Neutral is separated from the Utility Neutral to control stray voltages and balance the system. It was explained that by adding voltage to the formation that low level Step & Touch potentials would exist and MC2 would make sure the system operated under the National Electric Code (NEC) 15Vac levels. Mr. Diaz authorized MC2 to re-start the ET-DSP system and stated that he would place a note in the file for the site stating that this technology will have some stray voltages associated with it, and that the project is to be in operations for six months under a temporary facility installation. On October 21, 2010, Con Edison recorded stray potentials in the public right-of-way adjacent to the Dewalt property during one of their routine surveys. The stray potentials were traced back to the ET-DSP remediation system

operating at the site. Con Edison shut-off power to the system and Mike Zummo of Con Edison notified Loureiro Engineering Associates, Inc. (LEA) on October 22, 2010 that the system cannot operate if it produces any stray potential (anything greater than zero). LEA had Mr. Zummo speak with Mr. Brent Winder of MC2. Based on this conversation, Mr. Zummo stated that he would look into this matter and that he expected that it could be resolved. MC2 did not hear back from Mr. Zummo. On October 25, 2010, Mr. Robella spoke with Mr. Diaz who stated that he had mistakenly given MC2 permission to operate the ET-DSP system with the NEC guidelines and that ConEd cannot allow any potentials above the zero voltage. MC2 placed additional calls into Mr. Zummo and Con Edison to resolve this issue. MC2 has not been able to discuss this issue with anyone at Con Edison, and it is apparent that Con Edison is not willing to allow MC2 to operate the ET-DSP system given their policy.

12/20/10: J.Kann – LEA forwarded a summary letter containing proposed changes to the RAP.

1/7/11: J.Kann – forwarded LEA's summary letter to Jim Harrington requesting input on the proposed modification.

1/10/11: J.Kann – spoke with Brenden Reilly (District Manager (718) 425-6818) of Con Ed who verified that Con Ed has zero tolerance on stray voltage once there are detections on public right of ways. In this case, since detections were made outside of the property line (on the sidewalk), Con Ed's protocol is to cut power to the source of the stray voltage. He said this policy came about after a woman walking her dog was electrocuted on a manhole cover a few years back.

1/13/11: J.Kann – LEA submitted a vapor sampling workplan for nine additional sites. DOH reviewed and had one comment about possibly skipping sampling at the auto repair facility for now. Dave Scotti of LEA also called to get an update on the steam injection submittal. I returned his call and left a message indicating when I would be in the office. LEA also submitted results of vapor sampling from the current SVE system operating on site. Influent and Effluent samples were collected in September and October 2010.

1/14/10: J.Kann – arranged meeting with Jane O'Connell of HWR to discuss the future of this site (with Vadim Brevdo and Joe O'Connell). Also followed up with Jim Harrington to get input on the steam injection. Received an email indicating that On Monday, January 10, 2010 we conducted our weekly operations and maintenance event. At this time we noticed that the system was down as a result of a carbon back-up issue in the vapor GAC vessels. The scavenge lines connecting the in-series GAC vessels froze, creating a pressure back-up. Basically, we need to change out the three vapor GAC vessels, then heat trace the vessels and the scavenge lines to bring the system back online. This work is planned for Monday, January 17th.

2/3/11: J.Kann – met with Jane, Joe O'Connell, Vadim Brevdo and Lou Olivia to discuss possible transfer of this site to the hazardous waste section on 2/1/11. Conference call with Joe, myself and the consultant planned for today.

8/29/16 – The spill was cleaned up under the Brownfield cleanup program (BCP)(DEC site No. C241129). The on-site project received a Certification of completion in August 2016. The spill was closed in August 2016. For more details, please refer to the DEC approved Final Engineering Report for the BCP Site C241129.





**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**POLYTECH**  
122 JOHNSON ST

**BROOKLYN, NY** NO ZIP PROVIDED

**Spill Number: 1009933**

**Close Date: 05/09/2017**

**ADDRESS CHANGE INFORMATION**

Revised street:  
Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL  
Notifier Type: Other  
Caller Name:  
DEC Investigator: AXDORONO

Spiller: POLYTECHNIC UNIVERSITY  
Notifier Name:  
Caller Agency:  
Contact for more spill info: ANGELO BACARELLA

Spiller Phone:  
Notifier Phone:  
Caller Phone:  
Contact Person Phone:

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP – No DEC Field Response – Corrective Action Initiated or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards		Penalty Recommended	
12/17/2010		EQUIPMENT FAILURE	NO		NO	
Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
#2 FUEL OIL	PETROLEUM	0.00	UNKNOWN	0.00	UNKNOWN	SOIL

**Caller Remarks:**

Caller advised unk amount of oil leaked in soil. Clean up is pending.

**DEC Investigator Remarks:**

+12/17/10–HRAHMED–Spoke to Angelo from Four Sons Fuel Oil (718 358 4541). They will pump out the tank. No visual evidence of spill at this time.

PBS # 2–158224 12/18/10–HRAHMED–Angelo confirmed that they pumped out the oil from the tank yesterday. 1/4/11–HRAHMED– Four Sons Fuel Oil has submitted a proposal for the remediation; and are awaiting an approval. the contact at polytec is Paul(347–587–9975).

1/7/11–HRAHMED– Spoke to Angelo of Four Sons fuel oil (718 358 4541, cell–917 282 7668). As per him, they have received the approval for the investigation and remediation. On 1/10/11 they will start doing the mark out for utilities, do some initial soil boring and take soil samples. based on the analytical report, they will start excavation to remove the tank and the contaminated soil. No visual evidence of oil spill at this time.





and pumps greater than 99% water and less than 1% oil into the frac tank – submersible pump remains in operation until the water table drops and the pump shuts off automatically by a float switch – operation is repeated once the water table recharges – as of 12/01/11, approx. 2,649 gal of contaminated water has been removed less than ----- – currently doing subsurface investigation that was initiated in Aug. 2011 – installed soil borings and monitoring wells – conducted soil vapor survey in the adjacent buildings – to date, all dust monitoring measurements have been below regulatory action levels – to date, total of 12 soil borings (GP-1 through GP-12) have been advanced across the subject site – along the eastern property boundary, refusal was encountered in a number of location and therefore limited the number of soil borings/groundwater monitoring wells – soil borings are completed to an average depth of 30 to 35 ft bg, which is the depth of soil/groundwater interface – soil samples have been collected from select soil borings at their termination depth – total of 23 monitoring wells installed – wells MW-1 to MW-12, MW-14 to MW-17, MW-22 (as per site map) and MW-23 are located on the subject property – well MS-13 is located south of the subject property in front of Rogers Hall – wells MW-18 to MW-21 are located on the sidewalk adjacent to Johnson st – as per well logs, monitoring wells MW-2 to MW-23 were completed to a depth of 45 ft with 20 ft slotted screen – well MW-1 is located adjacent to the remediation system 12 ft diameter concrete rings and therefore a well log was not provided – wells MW-2 to MW-4 and MW-12 to MW-23 are one inch diameter wells – wells MW-5 to MW-11 are two inch diameter wells – during installation of a number of monitoring wells, very strong fuel oil odors were noted, especially in the southwest portion of the subject property – to a lesser degree, fuel oil odors were noted north of the former UST – wells MW-5 to MW-11 contained visible product

less than ----- – wells MW-5 to MW-11 are located in the area that was excavated for installation of the remediation system (wells within shorings)

less than ----- – layer of product was also noted in wells MW-3, MW-4, MW-12, MW-13, MW-14, MW-15, MW-18, MW-20, MW-21, MW-22 and MW-23 less than ----- – no product found in wells MW-2, MW-16, MW-17, MW-19 and MW-23 which are located on the eastern portion of the property

less than ----- – total of 11 grab groundwater samples were collected from ten temporary wells (GW-2, GW-3, GW-4, GW-5, GW-7, GW-8, GW-9, GW-10, GW-11, GW-12) and product sample was collected from temporary well GW-6 – groundwater samples were also collected from wells MW-3, MW-4, MW-17 and MW-22 – product sample is representative of typical fuel oil product – greatest impacts are noted in the groundwater, specifically from samples collected from points to the southwest and west of the former UST. this is consistent with the observation made during tank excavation that the stress fracture was noted on the southern portion of the UST – groundwater elevation measurements indicate that local groundwater flow is to the southwest – local groundwater flow direction may be altered by the active remediation system that was installed in the UST excavation pit – no contamination found in soil samples – found contamination (petroleum and chlorinated solvents) in groundwater samples (highest contamination in GW-4)

petroleum contamination in groundwater:

	MW-4	MW-22	GW-3	GW-4	GW-5	GW-7	GW-10
Benzene	30	80	100	34			35
Toluene	170	13	130	180	100		110
Ethylbenzene	99		99	270	85	10	70
Xylene	620	150	560	2,200	860	69	710
1,2,4-Trimethylbenzene	260	32	330	1,300	470	31	400
1,3,5-Trimethylbenzene	73	9	74	340	58	13	88
Naphthalene	290		790	4,400	400	36	390

TCE contamination in groundwater:

well-----TCE (in ppb) MW-3-----2 MW-4-----2 MW-17-----1 MW-22-----3 GW-2-----1 GW-3-----2 GW-4-----1  
 GW-7-----1 GW-10-----1 GW-11-----2 GW-12-----3

abstract of soil vapor survey report: – Civil Engineering Building is proximate to the identified source and potentially impacted by adjacent contaminated soil – soil vapor survey included the collection of four sub-slab soil vapor, four indoor air and three ambient samples – buiding that were sampled included the Donald F. and Mildred Topp Othmer Residence Hall to the north (101 Johnson St), Polytech Civil Engineering Building (adjacent to the west), Polytech Dibner Hall (adjacent to the east), and Polytech Rogers Hall (adjacent to the south) – total of four sub-slab samples (SSV-01 through SSV-04), one from each building, were collected from approx. two (2) inches beneath the bottom of the concrete floor slab – sub-slab sample SSV-01 was collected beneath the furniture storage closet, located in the southeast corner of the Donald F and Mildred Topp Othmer Residence Hall – sub-slab sample SSV-02 was collected beneath the basement work bench area in Polytech Civil Engineering building, adjacent to the tank site – sub-slab sample SSV-03 was collected at the base of the elevator shaft in the northwest corner of the Polytech Rogers Hall – sub-slab sample SSV-04 was collected adjacent to the interior stairwell in Polytech Dibner Hall – four indoor air samples (IA-01 through IA-04) were collected adjacent to the sub-slab samples and set at heights consistenet with the breathing zone – three outdoor air samples (OA-01 through OA-03) were collected at locations that surround the parking lot – outdoor sample OA-01 was collected from east of the parking lot – outdoor sample OA-02 was collected from northeast corner of the Rogers Hall – outdoor sample OA-03 was collected from adjacent to the southwest of the parking lot – found petroleum and chlorinated solvent contamination in sub-slab samples \*-\*-\*- – number of compounds in the outdoor samples exceed the ambient concentrations collected at the Queens College monitoring point; this is likely reflective of a greater presence of car exhaust in the vicinity of the subject site – potential sources of chlorinated solvent contamination may include the use of solvents in the Chemical Engineering Building

less than -----

soil vapor/indoor/outdoor air sample results (ug/m3):

	SSV-01	SSV-02	SSV-03	SSV-04	Ethylbenzene	
Xylene	88	1,2,4-Trimethylbenzene	39	1,3,5-Trimethylbenzene	15	
TCE	7	3,600	120			
PCE	11	150	13	20		

report is missing following: – amount of product recovered since the recovery system was installed – scaled site map including location of removed tank, previously unknown 5,000 gal tank in courtyard of Civil Engineering Building, shoring, recovery system and MW-1 (exact location) – shoring depth – size of well MW-1 – logs for borings GP-1 through GP-12 – reason for not collecting soil samples from boring GP-1, GP-2, GP-3 and GP-10

4:03 PM:– spoke with Mr. Sabatino and asked him about any Phase I report prepared in past. Mr. Sabatino mentioned that Phase I was not done as part of ongoing spill investigation. and he doesn't know if any Phase I done by property owner in past.

4:44 PM:– sent email to Mr. Sabatino and asked him to label pics sent earlier.

12/22/11–Hiralkumar Patel. 11:15 AM:– left message for Mr. Zulick at Polytech. 2:34 AM:– sent email to Mr. Sabatino and Mr. Zulick. asked Mr. Sabatino to submit missing information (listed above). also asked him to submit a site map with all boring/well locations, but no sample results. asked Mr. Zulick to submit copy of previous Phase I, if done in past. informed him that the department requires Phase I investigaiton, if no reports available. asked Mr. Sabatino and Mr. Zulick to submit documents by 12/30/11. email copied to Mr. Omoagbi and Mr. Rosati.

2:52 PM:– sent email to Mike Hughes at NYS DOH including copy of soil vapor survey report, for review.

12/23/11–Hiralkumar Patel. 11:41 AM:– received email from DOH Hughes. he had forwarded report to NYS DOH Bureau of Environmental Expose Investigation and also to Chris D'Andrea at NYC DOH. 11:52 AM:– received email from Joseph Crua from NYS DOH. Bridget Callaghan from his unit will review report and call back.

12/27/11–Hiralkumar Patel. 2:43 PM:– received call from Bridget Callaghan from NYS DOH. she reviewed the soil vapor survey report and agrees with the proposed corrective action. she mentioned that further investigation needs to be done to find out the source, if any on–site. during conversation, she mentioned that she is working on another site (388 Bridge Street) in neighbourhood, with soil/vapor contamination. during further investigation on her project site, they found groundwater flow in completely opposite direction then anticipated. during further review, they found that there is a subway pumping station in area which is affecting the groundwater flow direction.

3:41 PM:– received email from Bridget. she offered the following recommendations after reviewing the soil vapor survey report: – the groundwater wells need to be sampled and analyzed for the full–VOC suite. this will help determine the presence or absence of a chlorinated solvent source on the property. – there is a potential for a nearby subway pumping station to affect the groundwater flow direction and subsequent contamination migration. the near site groundwater flow needs to be determined. – a full review of the chemicals used/stored on–site within the engineering school needs to be conducted. – soil vapor contamination to the west and southwest of SSV–02 needs to be delineated. – the recommendations made in the report may help to minimize vapor intrusion from occurring. continued indoor air monitoring will provide further evidence of the success of these actions.

01/04/12–Hiralkumar Patel. discussed with DEC Austin. he asked to discuss with DEC Jeff to prepare memo for case transfer due to chlorinated solvent contamination.

3:00 PM:– left message for Mr. Sabatino. 3:12 PM:– sent email to Mr. Sabatino inquiring updates. email copied to Mr. Rosati and Mr. Omoagbi.

01/05/12–Hiralkumar Patel. 1:31 PM:– due to findings of chlorinated solvent contamination, sent email to DEC Jane with site history and a site map (including sampling results). email copied to DEC Austin and DEC Vought.

01/09/12–Hiralkumar Patel. 2:44 PM:– received email from Mr. Sabatino including site map and boring logs for GP–1 through GP–12. he mentioned that the amount of product recovered as of December 11, 2011 is 2649 gallons. but as per the interim summary report (dated 12/20/11) section 1.3, approx. 2,649 gal of water contaminated with petroleum has been removed. as per submitted site map, the recovery ring is noted as well MW–1. as per boring logs, less than 4.7 ppm recorded on PID in all borings.

the submitted information added to the report dated 12/20/11.

01/20/12–Hiralkumar Patel. 3:05 PM:– sent email to Mr. Sabatino and asked him to submit information about amount of product (not contaminated water) recovered till now. email copied to Mr. Zulick, Mr. Rosati and Angelo. 3:40 PM:– received email from Mr. Sabatino. he mentioned that as of today, they recovered total of 2,845 gal of oil (not oil and water as stated in report).

01/26/12–Hiralkumar Patel. discussed with DEC Jane regarding chlorinated solvent found in sub–slab sample. she has sent data to DEC Cozzy for evaluation.

discussed with DEC Austin regarding groundwater contamination (free product and dissolved). he asked to send memo requesting a case transfer.

01/27/12–Hiralkumar Patel. sent email to DEC Austin requesting case transfer to remediation.

02/03/12–Hiralkumar Patel. with DEC Austin's approval, case transferred to DEC Vadim.

DEC requires: 1) Phase I, 2) soil/gw analysis via 8260 full list/STARs 8270, 3) inventory of chemicals used in Chemical Engineering Building (as suspects the source of chlorinated solvents), disposal methods of used chemicals and drainage structure in chemical engineering building.

02/22/2012: This sill was transferred to A. Doronova. – AD

This is a memo from Kumar:

Spill #: 1009933 Address: 122 Johnson Street, Brooklyn.

The site is occupied by the Polytech University. The subject spill was reported on 12/17/2010 due to a product loss from a 5,000 gallon #2 oil underground storage tank. During further investigation, a crack found in the southern end of the tank bottom. The tank and associated soil contamination has been removed. The final excavation was 35 ft long by 35 ft wide and 40 ft deep. Groundwater was found at the excavation bottom. Petroleum product was found on water table. Tank excavation area was backfilled after installing a recovery system (12 ft diameter concrete rings). As of Dec. 2011, total of 2,845 gal of oil has been recovered. During further delineation, free product iss found beyond the limits of excavation area. To evaluate any impact on air quality due to the petroleum release, a soil vapor study was conducted. During the soil vapor study, chlorinated solvents were found in sub–slab samples, with maximum contamination in sample collected from Civil Engineering building (TCE: 3.600 ug/m3, PCE: 150 ug/m3). BTEX contamination also found in sub–slab sample (maximum 88 ug/m3 of Xylene) collected from Civil Engineering Building. The Civil Engineering building is located adjacent to the former tank location. Chlorinated compounds were not found in any indoor or outdoor air samples or any soil or groundwater samples.

Sent an e–mail to Mr. Sabatino stating that I am a new project manager, with my contact info.

John Sabatino AB Environmental PH. (631) 567–6545 (O) cell: (631) 300–6493 email: jsabatino@abenviro.com

AD

03/14/2012: Contacted Mr. Sabatino regarding report submission. I was told that they are still in a process of delineation, and that report will be probably ready in 8 weeks. AD

04/30/2012: Received tne following e–mail from Mr. Sabatino:

Ainura,

We spoke about 8 weeks ago regarding the situation at Polytechnic. We have been delineating the spill area for quite some time. We will hopefully complete the delineation this week regarding the well point installation and most recent sampling. We will be performing some additional sampling for wells where the analysis is more than 60 days old so as to gather up to date information. Once this has been complete we will be ready to prepare another report regarding the delineation and proposed remedial action.

If you have questions, contact me.

Best regards,

John Sabatino Project Manager AB Environmental Services, Inc. Phone 631-567-6545 Fax 631-567-9390 jsabatino@abenviro.com

AD

05/22/2012: Received the following e-mail from Stephen Kaplan of VHB Engineering:

Ms. Doronova,

Attached is a letter pertaining to the capacity of the removed underground storage tank associated with NYSDEC Spill No. 1009933. Please feel free to contact me if you have any questions. Thank you.

Stephen I. Kaplan Senior Project Manager VHB Engineering, Surveying and Landscape Architecture, P.C.

DL the document to eDocs. AD

07/06/2012: received the following e-mail from S. Kaplan:

Ms. Doronova,

The attached soil vapor report was prepared on behalf of AB Environmental and at Michael Rosati's request, we are submitting an electronic copy to your attention. In addition, one hardcopy will be sent via U.S. Mail to you.

If you have any questions regarding the attached, please feel free to contact me directly. Thank you.

Stephen I. Kaplan Senior Project Manager

Will review. AD

08/13/2012: Reviewed the report. It states that on March 15, 2012, VHB completed a soil vapor investigation on the site in accordance with New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

The soil vapor survey included the collection of four sub-slab soil vapor, four indoor air and three ambient (background) samples. The buildings that were sampled included the Donald F. and Mildred Topp Othmer Residence Hall to the north (101 Johnson Street); Polytech Civil Engineering Building (adjacent to the west); Polytech Dibner Hall (adjacent to the east); and Polytech Rogers Hall (adjacent to the south). The sub-slab samples were collected in each building to characterize the nature and extent of soil vapor contamination directly beneath each respective building. The indoor air samples were collected to characterize exposures to air within each respective building. The outdoor air samples were collected to characterize site specific background outdoor air conditions.

The September 9, 2011 soil vapor sampling identified impacts in sub-slab soil samples SSV-01 and SSV-02. Associated indoor air samples IA-01 and IA-02 had only minimal impacts. Lesser impacts are noted in the other sub-slab samples, SSV-03 and SSV-04 and the associated indoor air samples indicate minimal impacts. Outdoor ambient air samples did not indicate any impacts to air quality.



The most recent March 15, 2012 soil vapor sampling identified similar impacts in sub-slab soil samples SSV-01 and SSV-02. However, an elevated concentration of TCE was detected in SSV-03 at a level that was much higher than the first initial sample. Impacts in SSV-04 were noted to be similar to the September 9, 2011 soil vapor sampling.

Based upon previous ambient and sub-slab soil vapor sampling conducted on September 9, 2011, the two main areas of concern were the Donald F. and Mildred Topp Othmer Residence Hall and the Civil Engineering Building. These areas continue to be the areas of concern based upon a second sampling event on March 15, 2012, given that elevated levels of similar compounds were detected in both rounds of sampling. Based on the previously discussed NYSDOH matrices, including both the September 9, 2011 and March 15, 2012 sampling events, no further action is required for the Donald F. and Mildred Topp Othmer Residence Hall.

However, since other compounds were detected and the building is used for student housing, it is recommended that all subsurface vapor entry points, such as cracks in the concrete floor and pipe entry points be sealed. Following sealing, the entire floor should be painted with an impermeable sealant. It is also recommended that semiannual indoor air monitoring be conducted.

Based on the previously discussed decision matrix, recommended mitigation measures for Rogers Hall (SSV-03) and Dibner Library (SSV-04) include sealing of all subsurface vapor entry points, application of the impermeable sealant, and semiannual indoor air monitoring of each basement.

Based on the above data gathered through both the September 9, 2011 and March 15, 2012 sampling events, and in conjunction with the NYSDOH Guidance, VHB recommends that sub-slab soil vapor and ambient air monitoring be continued on a semi-annual basis as a result of the March 15, 2012 soil vapor collection. In each case, the basement floors should be properly sealed as indicated above and consistent with the NYSDOH Guidance's recommendation for "mitigation." Based upon the performance of the remediation system located at the eastern exterior of 122 Johnson Street (within the spill area), it is likely that petroleum-related soil vapor impacts will decrease over time. VHB also recommends that permanent vapor points (inclusive with lockable manholes) be installed in the areas of the previous sub-slab soil vapor sample locations. This will create an easily accessible and secure point to collect additional sub-slab soil vapor samples for the recommended semi-annual monitoring.

Groundwater sampling is on-going as part of this subsurface investigation. The results of the groundwater investigation will be reviewed in conjunction with the soil results in an attempt to identify possible additional sources of contamination.

AD

08/16/2012: Received an e-mail from Peter Daniels of Berninger Environmental, Inc. saying:

Dear Ms. Doronova,

I am writing to you today on behalf of Michael Rosati from AB Environmental. He has asked Berninger Environmental, Inc. to collect and report all monitoring data for the Poly Tech, Johnson St. Brooklyn site. My name is Peter Daniels and I have been assigned the task of collecting and sending that report to you. I will be receiving, from AB Environmental, all the information collected from the weekly and bi-weekly monitoring visits. I will compile these into a monthly report, to which I will send to you via email. If you have any questions or concerns please feel free to contact myself or Mike.

Please see the attached July monitoring report.

Thank You,

Peter Daniels

DL the report to eDocs. Will review. AD

09/04/2012: Reviewed the report. It states that this report includes visits on the following July dates: 3, 6, 10, 13, 27, and 31. Skimmer and submersible pump were operational only during bi-weekly visits.

09/06/2012: Received August 2012 Monitoring Report. DL the report to eDocs. Will review. AD

09/18/2012: Called and spoke with Mr. Rosati of AB Environmental regarding the submitted GW monitoring report. He said that they will submit RAP after they will get discharge permit from DEP. GW was sampled 2 months ago, sampling report was not submitted yet. Mr. Rosati told that the report was prepared by Berninger Environmental, Inc., which was subcontracted by AB Environmental, so DEC should request the report from them. AD

09/28/2012: Reviewed the August 2012 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. AB Env. visited the site on the following August 2012 dates: 3, 6, 10, 13, 27, and 31. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 14 wells were gauged on these events. AD

10/11/2012: Received September 2012 Monitoring Report. DL the report to eDocs. Will review. AD

11/09/2012: Received the RAP by VHB Engineering. No PDF copy was submitted. Called and left a message to Mr. Kaplan of VHB with a request for its submission. It looks like as many as three different environmental consulting companies are involved with this project. Called and left a message to Mr. Zulick (director of engineering services of Polytech) to clarify the situation. AD

11/14/2012: Reviewed the submitted RAP. It proposes improvements to the existing IRM groundwater remediation system to accommodate an automatic and full-time operation in order to expedite product recovery and treat contaminated groundwater so it can be discharged into the NYC municipal sewer. Currently, effluent water is manually pumped out of an existing 10,000-gallon frac tank into a pump truck and discharged at an licensed facility. The existing skimmer device currently discharges free product into 55-gallons drums, which are manually removed from the site. Under the proposed improvements, an automatic skimer device will be placed in well MW-1 at an appropriate depth in order to detect free product at a certain GW elevation. The automatic skimmer (AS) will begin pumping until no product would be detected. AS will discharge free product into 500-gallon skid tank in the storage shed. The proposed 500-gallon tank will be pumped by vactor truck on as-needed basis. AS will be equipped to automatically shut down when 500-gallon tank filled to operating capacity.

When AS shuts down as a FP recovered from the water table, submerged pump will automatically pump contaminated GW from well MW-1 into 10,000-gallon frac tank. A secondary submerged pump in the frac tank will pump the GW from the tank into filtration system, from which the treated GW will be discharged to the municipal sewer.

VHB will monitor GW and product levels in the existing wells in the vicinity of MW-1. VHB will also perform semi-annual sub-slab soil vapor and ambient air quality sampling.

No product recovery from 12 wells currently exhibiting free product is proposed in the RAP. Also, no groundwater sampling proposed during the remediation. Called and spoke with Mr. Rosati of AB Environmental. Requested him to revise the RAP to include product recovery from site wells and quarterly GW sampling. AD

11/15/2012: Sent the following e-mail with DEC requirements to Mr. Rosati:

Dear Mr. Rosati:

I reviewed the RAWP for the above-referenced site submitted by VHB Engineering on November 8, 2012. Please revise the RAWP to incorporate the following comments:

1. Baseline groundwater sampling should be proposed for all site-related monitoring wells, which do not exhibit free product;
2. A groundwater sampling schedule should be proposed;
3. Additional remedial actions should be proposed for 1 and 2 wells which continuously exhibit free product;
4. System operation and maintenance plan should be included in the RAWP.

A PDF copy of the revised RAWP should be submitted to DEC on a CD by regular mail.

Sincerely,

Ainura Doronova

AD

12/05/2012: Received a November 2012 GW monitoring Report. DL pdf copy of the report to eDocs. Will review. AD

12/07/2012: Received a Revised RAP on a CD. Will review. AD

01/09/2013: Reviewed the revised work plan for DEC requirements. In Attachment E of the RAWP(Operations, Maintenance & Monitoring Plan) one paragraph was added, which states that in addition to manually emptying the product recovery tank, monitoring wells that exhibit floating product will be pumped in order to remove floating product from select areas and increase the radius of influence of recovery.

Also, in the BEi OMM Plan indicated that all site monitoring wells will be sampled on a quarterly basis. Will approve the work plan. AD

01/17/2013: Discussed the revised work plan with J. Kolleeny of DEC. Issued an approval letter to George Zulick of Polytech. DL pdf copy of the letter to eDocs. AD

02/06/2013: Received the following e-mail from Michael Rosati:

Attached is the results from the semi-annual soil vapor sampling performed September 2012. Please call with any questions and / or concerns.

Regards,

Michael Rosati Vice President AB Environmental 1599 Ocean Avenue Bohemia, NY 11716 631.567.6545 ~ office 631.567.9390 – fax 631.484.0320 – cell

DL the report to eDocs. Will review. AD

03/07/2013: Reviewed the semi-annual soil vapor sampling report for September 2012. It states that the soil vapor survey included the collection of four sub-slab soil vapor, four indoor air and three ambient (background) samples. All samples were collected in accordance with the NYSDOH Guidance.

A total of four sub-slab soil vapor samples (SSV-01, SSV-02, SSV-03 and SSV-04) were collected on September 26, 2012 from the noted location in each of the following four buildings: Donald F. and Mildred Topp Othmer Residence Hall ~ furniture storage closet; Polytech Civil Engineering Building ~ basement work bench area adjacent to site; Polytech Rogers Hall ~ at the base of the elevator shaft; and Polytech Dibner Hall ~ adjacent to the stairwell.

Results of survey:

Impacts were noted at the sampling location – SSV-01 (Donald F. and Mildred Topp Othmer Residence Hall), with a number of contaminants exceeding both applicable standards. The location of this sampling point is in the furniture closet located in the southeast corner of the building. The initial sampling, conducted on September 9, 2011, indicated the primary contaminants of concern, ethylbenzene, xylene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene, are indicative of a fuel spill, with impacts from a secondary source(s), such as a drycleaner or solvent spill. Contaminants associated with a potential secondary source include trichloroethene (TCE) and tetrachloroethene (PCE). However, subslab vapor collected on March 15, 2012 indicated that most of these compounds are still present beneath the building foundation, but at a reduced concentration. In addition, no detection of the potential secondary source compounds (TCE and PCE) were detected in March 15, 2012 sample. During the most recent sampling of SSV-01, conducted on September 26, 2012, TCE has re-emerged above the USEPA average indoor air concentrations. Furthermore, acetone, methylene chloride and chloroform were also detected above their average USEPA indoor air concentrations.

SSV-02 (Civil Engineering Building) is the closest sub-slab vapor point to the centralized location of the fuel oil spill. The previous results from SSV-02 indicated significant impacts from TCE which is approximately 800 times the applicable standard. To a lesser degree, impacts were also noted from chloroform and PCE. The location of this sampling point was in the basement adjacent to the west of the spill site. TCE and PCE are widely used as a degreaser for metal parts in addition to use as a dry cleaning solvent. Potential sources of these elevated TCE and PCE concentrations may include use of solvents in the Chemical Engineering Building and an off-site source, such as a drycleaner. Chloroform is commonly related to bleaches discharged in wastewater (i.e., laundry and cleaners) and municipal potable water sources (i.e., leaking water service lines). The same TCE, PCE and chloroform compounds were also detected in the March 15, 2012 sample, but at reduced concentrations. The September 26, 2012 sampling at SSV-02 revealed highly elevated levels of TCE, along with PCE, chloroform, acetone, carbon disulfide, n-Hexane, cis-1,2-Dichloroethene, toluene, ethylbenzene, n-Heptane xylenes, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene and 4-methyl-2-pentanone. The fluctuations detected in TCE and PCE can still be attributed to off-site impacts. However, the continued presence of ethylbenzene, toluene, along with the presence of n-Heptane and n-Hexane, indicate the continued presence of the adjacent fuel oil spill, as these compounds are common constituents found in petroleum products.

The March 15, 2012 and September 26, 2012 sampling event of SSV-04 detected similar compounds when compared to the September 9, 2011 sample results, which supports VHB's previous conclusion that contamination may be attributed to multiple point sources.

The four indoor air sample locations (IA-01, IA-02, IA-03 and IA-04) that are associated with the four sub-slab sample points have only very limited impacts. However, significantly elevated concentrations of toluene and xylenes were detected in IA-02 during the September 26, 2012 sampling. These concentrations can likely be attributed to the presence of maintenance products and paints/thinners located proximate to the sampling locations. Similarly, the three outdoor air samples (OA-01 [east of the parking lot], OA-02 [northeast corner of Rogers Hall], and OA-03 [adjacent to the southwest of the parking lot]) also indicate very limited impacts. A number of the compounds in the outdoor samples exceed the ambient concentrations collected at the Queens

College monitoring point; this is likely reflective of a greater presence of motor vehicle exhaust in the vicinity of the subject property.

Based on the above data gathered through both the September 9, 2011, March 15, 2012 and September 26, 2012 sampling events, and in conjunction with the NYSDOH Guidance, VHB recommends that sub-slab soil vapor and ambient air monitoring be continued on a semi-annual basis as a result of the September 26, 2012 soil vapor collection. In each case, the basement floors should be properly sealed as indicated above and consistent with the NYSDOH Guidance's recommendation for "mitigation." Based upon the performance of the remediation system located at the eastern exterior of 122 Johnson Street (within the spill area), it is likely that petroleum-related soil vapor impacts will decrease over time. VHB also recommends that permanent vapor points (inclusive with lockable manholes) be installed in the areas of the previous sub-slab soil vapor sample locations. This will create an easily accessible and secure point to collect additional sub-slab soil vapor samples for the recommended semi-annual monitoring. AD

03/13/2013: Received a January and February 2013 GW monitoring reports. DL pdf copy of the reports to eDocs. Will review. AD

04/10/2013: Reviewed the January 2013 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. AB Env. visited the site on the following January 2013 dates: 2, 4, 9, 11, 21, 24, & 31. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on January 31, 2013 site visit ranged from 0.15' in well MW-9 (2 well) to 0.79' in MW-4 (1 well). In total - 530 gallons of oil were recovered during January 2013 period. AD

04/17/2013: Reviewed the February 2013 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. AB Env. visited the site on the following February 2013 dates: 5, 12, 14, 18, 20, 25, & 27. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on February 27, 2013 site visit ranged from 0.18' in well MW-8 (2 well) to 0.81' in MW-4 and MWE-12 (1 wells). In total - 410 gallons of oil were recovered during February 2013 period. 8,431 gallons of oil were recovered from the site since August 2011. AD

04/19/2013: Received a March 2013 GW monitoring Report. DL pdf copy of the report to eDocs. Will review. AD

05/15/2013: Reviewed the March 2013 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. AB Env. visited the site on the following March 2013 dates: 6, 8, 11, 13, 18, 21, 25, 27 & 29. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on March 29, 2013 site visit ranged from 0.09' in well MW-5 (2 well) to 0.5' in MW-4 (1 well). In total - 465 gallons of oil were recovered during March 2013 period. AD

05/17/2013: Received an April 2013 GW monitoring Report. DL pdf copy of the report to eDocs. Will review. AD

06/11/2013: Reviewed the April 2013 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. AB Env. visited the site on the following April 2013 dates: 1, 3, 5, 8, 10, 15, 17, 19, 22, & 23. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 14 wells were gauged on these events. Thickness of the product on April 23, 2013 site visit ranged from 0.15' in well MW-9 (2 well) to 0.72' in MW-4 (1 well). In total - 650 gallons of oil were recovered during April 2013 period. 9,547 gallons of oil were

recovered from the site since August 2011. AD

06/14/2013: Received a May 2013 GW monitoring Report. DL pdf copy of the report to eDocs. Will review. AD

07/16/2013: Reviewed the May 2013 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. AB Env. visited the site on the following May 2013 dates: 6, 7, 8, 13, 16, 20, 22, 24, 28 & 30. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on May 30, 2013 site visit ranged from 0.13' in well MW-5 (2 well) to 0.58' in MW-4 (1 well). In total - 720 gallons of oil were recovered during May 2013 period. AD

07/17/2013: Received a June 2013 GW monitoring Report. DL pdf copy of the report to eDocs. Will review. AD

08/13/2013: Received a July 2013 GW monitoring Report. DL pdf copy of the report to eDocs. Will review. AD

08/15/2013: Reviewed the June 2013 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. AB Env. visited the site on the following June 2013 dates: 6, 12, 13, 17, 19, 21, 24, & 26. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on June 26, 2013 site visit ranged from 0.04' in well MW-15 (2 well) to 0.27' in MW-8 (2 well). There is a downgradient trend in free product thickness in the site wells. In total - 10,772 gallons of oil were recovered during June 2013 period. 190,990 gallons of oil were recovered from the site since August 2011. ABE will continue monthly site visits. AD

09/23/2013: Reviewed the July 2013 report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. ABE visited the site on the following July 2013 dates: 1, 8, 15, 17, 19, 23, 24, 26, 29 and 31. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on July 31, 2013 site visit ranged from 0.02' in well MW-9 (2 well) to 0.67' in MW-12 (2 well). There is a downgradient trend in free product thickness in the site wells. In total - 11,427 gallons of oil were recovered during July 2013 period. 211,195 gallons of oil were recovered from the site since August 2011. ABE will continue monthly site visits. AD

09/24/2013: Received August 2013 Monitoring report. DL the report to eDocs. Will review. AD

10/04/2013: Received Soil Vapor Survey Report. DL the report to eDocs. Will review. AD

10/10/2013: Received September 2013 Monitoring report. DL the report to eDocs. Will review. AD

10/29/2013: Reviewed the August 2013 groundwater monitoring report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. ABE visited the site on the following August 2013 dates: 2, 5, 7, 12, 14, 19, 21, 23, 26, 28 and 29. The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on August 28, 2013 site visit ranged from 0.01' in wells MW-1 (144 well) and MW-9 (2 well) to 0.85' in MW-12 (2 well). There is a downgradient trend in free product thickness in the site wells. In total - 12,122 gallons of oil were recovered during August 2013 period. 234,120 gallons of oil were recovered from the site since August 2011. ABE will continue monthly site visits. AD

11/21/2013: Reviewed the September 2013 groundwater monitoring report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. ABE visited the site on the following September 2013 dates: 3, 4, 6, 9, 11, 18, 20, 23, 25, and 27.

The report states that skimmer and submersible pump were operational only during bi-weekly visits. 14 wells were gauged on these events. Thickness of the product on September 27, 2013 site visit ranged from ND in wells MW-20 and MW-21 (1 wells) to 1.44' in MW-12 (2 well). There is a upgradient trend in free product thickness in the site wells. In total – 12,812 gallons of oil were recovered during September 2013 period. 253,410 gallons of oil were recovered from the site since August 2011. ABE will continue monthly site visits. AD

11/26/2013: Reviewed the Soil Vapor Survey Report. It states that the semi-annual soil vapor survey includes the collection of four sub-slab soil vapor, four indoor air and three ambient (background) samples.

A total of four sub-slab soil vapor samples (SSV-01, SSV-02, SSV-03 and SSV-04) were collected on August 14, 2013 from each of the following four buildings: 1. Donald F. and Mildred Topp Othmer Residence Hall ~ furniture storage closet; 2. Polytech Civil Engineering Building ~ basement work bench area adjacent to site; 3. Polytech Rogers Hall ~ at the base of the elevator shaft; 4. Polytech Dibner Hall ~ adjacent to the stairwell.

Four indoor (ambient) air samples (IA-01, IA-02, IA-03, and IA-04) were collected adjacent to the sub-slab sample and set at heights consistent with the breathing zone (i.e., approx. three-to-five-feet above grade level [agl]). Similar to the sub-slab soil vapor samples six-liter laboratory-supplied vacuum Summa canisters were utilized to collect each air sample over a two-hour period at a flow rate of approximately 0.05 LPM.

Three outdoor (ambient) air samples (OA-01, OA-02 and OA-03) were collected at locations that surround the parking lot.

#### SVS results:

SSV-01 – (Donald F. and Mildred Topp Othmer Residence Hall) impacts were noted at this sampling location, with a number of contaminants exceeding both applicable standards. The location of this sampling point is in the furniture closet located in the southeast corner of the building. The initial sampling, conducted on September 9, 2011, indicated the primary contaminants of concern, ethylbenzene, xylene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene, are indicative of a fuel spill, with impacts from a secondary source(s), such as a drycleaner or solvent spill. Contaminants associated with a potential secondary source include trichloroethene (TCE) and tetrachloroethene (PCE). However, sub-slab vapor collected on March 15, 2012 indicated that most of these compounds are still present beneath the building foundation, but at reduced concentrations. In addition, no detection of the potential secondary source compounds (TCE and PCE) were detected in the March 15, 2012 sample. As a result of soil vapor sampling conducted on September 26, 2012, TCE concentrations were identified again above the USEPA average indoor air concentrations. Furthermore, acetone, methylene chloride and chloroform were also detected above their average USEPA indoor air concentrations. Sampling conducted on February 5, 2013 indicated the presence of TCE at similar concentrations above the average USEPA indoor air concentration. However, other previously detected constituents such as acetone, methylene chloride and chloroform were either not detected, or detected at concentrations within or below their average USEPA indoor air concentrations. Sampling conducted on August 14, 2013 indicated elevated concentrations of chloroform, TCE and PCE above their average USEPA indoor air concentrations. The concentrations were similar to their respective summer season sampling.

SSV-02 (Civil Engineering Building) is the closest sub-slab vapor point to the centralized location of the fuel oil spill. The previous results from SSV-02 indicated significant impacts from TCE which is approximately 800 times the applicable standard. To

a lesser degree, impacts were also noted from chloroform and PCE. The location of this sampling point was in the basement adjacent to the west of the spill site. TCE and PCE are widely used as a degreaser for metal parts in addition to use as a dry cleaning solvent. Potential sources of these elevated TCE and PCE concentrations may include use of solvents in the Chemical Engineering Building and an off-site source, such as a drycleaner.

SSV-03 (Rogers Hall basement ~ northwest corner) sampling results from August 14, 2013 exhibited elevated concentrations of methylene chloride, carbon tetrachloride, TCE, toluene and PCE at slightly reduced levels to those detected during the September 26, 2012 sampling event.

SSV-04 (Dibner Library adjacent to interior stairwell) The August 14, 2013 sampling event revealed elevated concentrations of n-Hexane, toluene and PCE at concentrations above their USEPA average indoor air concentrations. similar to the September 26, 2012 sampling event, which further indicates the presence of these compounds during summer months.

The four indoor air sample locations (IA-01, IA-02, IA-03 and IA-04) that are associated with the four sub-slab sample points have only very limited impacts during the August 14, 2013 sampling event. Concentrations of many of the VOCs detected can likely be attributed to the presence of maintenance products and paints/thinners located proximate to the sampling locations.

Minor quantities of VOCs were detected in outdoor air samples (OA-01 [east of the parking lot], OA-02 [northeast corner of Rogers Hall], and OA-03 [adjacent to the southwest of the parking lot]). Slightly elevated concentrations of methylene chloride were detected in outdoor air samples OA-2 and OA-3 during the August 24, 2013 sampling event. However, these concentrations are similar to previous outdoor air sampling events and can likely be attributed to background conditions. No additional constituents in outdoor (ambient) air samples were detected at concentrations above their respective USEPA 75th percentile concentrations.

When compared to the more recent samples, collected on March 15, 2012, September 26, 2012, February 5, 2013 and August 14, 2013, none of the compounds that are included in the NYSDOH matrices were detected in the sub-slab vapor (SSV-01) and ambient indoor air sample (IA-01). As such, the matrix indicates that no further action is required for soil vapors. More recent sampling events from February 5, 2013 and August 14, 2013 indicate that monitoring is recommended.

Based on the data gathered through the September 9, 2011, March 15, 2012, September 26, 2012, February 5, 2013 and August 24, 2013 sampling events, and in conjunction with the NYSDOH Guidance, VHB recommends that sub-slab soil vapor and ambient air monitoring be continued on a semi-annual basis as a result of the August 24, 2013 soil vapor collection. In each case, the basement floors should be properly sealed as indicated above and consistent with the NYSDOH Guidance's recommendation for "mitigation." Based upon the performance of the remediation system located at the eastern exterior of 122 Johnson Street (within the spill area), it is likely that petroleum-related soil vapor impacts will decrease over time. AD

01/10/2014: Received December 2013 Monitoring report. DL the report to eDocs. Will review. AD

01/27/2013: Reviewed the December 2013 groundwater monitoring report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. ABE visited the site on the following December 2013 dates: 2, 4, 6, 9, 10, 11, 13, 16, 18, 23, and 26.

The report states that skimmer and submersible pump were operational only during bi-weekly visits. 14 wells were gauged on these events. Thickness of the product on December 26, 2013 site visit ranged from ND in wells MW-20 and MW-21 (1 wells) to 1.27' in MW-4 (1 well). There is a fluctuating trend in free product thickness in the site wells. In total - 15,368 gallons of oil were recovered during December 2013 period. 331,772 gallons of oil were recovered from the site since August 2011. ABE will continue monthly site visits. AD



02/11/2014: Received January 2014 Monitoring Report. DL the report to eDocs. Will review. AD

03/02/2014: Reviewed the January 2014 groundwater monitoring report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. ABE visited the site on the following January 2014 dates: 2, 8, 9, 10, 14, 15, 17, 20, 22, 27, 29 and 31.

The report states that skimmer and submersible pump were operational only during bi-weekly visits. 14 wells were gauged on these events. Thickness of the product on January 31, 2014 site visit ranged from ND in wells MW-20 and MW-21 (1 wells) to 1.28' in MW-4 (1 well). There is a fluctuating trend in free product thickness in the site wells. In total - 16,173 gallons of oil were recovered during January 2014 period. 356,727 gallons of oil were recovered from the site since August 2011. ABE will continue monthly site visits. AD

03/04/2014: Received February 2014 Monitoring Report. DL the report to eDocs. Will review. AD

04/08/2014: Reviewed the February 2014 groundwater monitoring report. It states that bi-weekly visits to the site were performed by by AB Environmental personnel, to recover floating product from monitoring well MW-1. The surrounding monitoring wells were gauged and AB Env. recorded measurements to document any influence. ABE visited the site on the following February 2014 dates: 5, 7, 10, 12, 14, 19, 21, 24, 26 and 28.

The report states that skimmer and submersible pump were operational only during bi-weekly visits. 15 wells were gauged on these events. Thickness of the product on February 28, 2014 site visit ranged from ND in wells MW-20 and MW-21 (1 wells) to 1.05' in MW-4 (1 well). There is a fluctuating trend in free product thickness in the site wells. In total - 16,783 gallons of oil were recovered during February 2014 period. 372,884 gallons of oil were recovered from the site since August 2011. ABE will continue monthly site visits. AD

07/09/2014: Received a phone call from Gerrey Nicholls of Langan (ph:212-479-5559). Langan is taking over the project and will be a new consultant for the site. Mr. Nicholls requested a meeting with DEC to discuss the site and planned additional site investigation, since NYU decided that previous course of actions at the site was ineffective. Said to Mr. Nicholls that the meeting could be scheduled, but it would be unproductive, since there is no new data or new remediation to discuss. Suggested to Mr. Nicholls first to review and analyze existing data and site conditions to prepare and submit supplemental site investigation work plan to DEC for review and approval. After performing and getting results of this SI, an adequate RAP should be proposed based on the data, and then a meeting can be held to discuss most suitable remedial approaches for the site. He will speak with NYU and get back with their decision regarding suggested course of actions. AD

07/17/2014: Received the following e-mail from Langan:

Ainura,

Please see attached Supplemental Site Investigation Work Plan for your review.

Thank you,

Gerry

Gerald Nicholls, PE, CHMM Project Engineer Direct: 212.479.5559 Mobile: 609.933.5330

Will review. AD

07/22/2014: Reviewed the work plan. The investigation work includes:

- A geophysical survey in the planned investigation area.
- Completion of a laser-induced fluorescence (LIF) investigation including advancement of up to 20 LIF points. They will be advanced using hydraulic machinery equipped with an Ultraviolet Optical Screening Tool (UVOST®) to delineate the extents of petroleum impacts; the LIF points will be advanced within the expected spill radius. Each LIF point will be advanced to 40± fbg. If petroleum impacts are identified beyond the proposed sampling area, the sampling area will be expanded or modified as necessary.
- Completion of up to five soil borings and collection and analysis of up to five grab soil samples, based on the results of the LIF investigation. Following advancement of all LIF points, up to five locations will be selected for direct-push soil borings based on observed LIF data. The purpose of these borings is to record geological soil information and collect soils samples to calibrate the LIF data.
- Replacement of up to six existing 0.75– to 1–inch monitoring wells with 2–inch monitoring wells. A licensed contractor will utilize a hollow–stem auger and the “drill and drop” method to install the replacement wells at an average depth of 40 fbg. Location of well replacement will be determined in the field and based on subsurface observations during LIF point and soil boring advancement.
- Collection and analysis of groundwater samples from each all accessible monitoring wells.
- Possible installation of three 4–inch or 6–inch recovery wells at boring locations where grossly contaminated media is identified.
- A survey of the remediation system, surrounding buildings and adjacent sewer lines.
- Upon completion of the investigation, a supplemental site investigation report will be submitted. The report will document compliance with this SSIWP and include a description of the site investigation work performed. At a minimum, the supplemental site investigation report will include a Conceptual Site Model (CSM), an estimate of free product in the subsurface, results of collected data, assumptions, closure assessment, recommendations, and an evaluation of potential sensitive receptors.

Some locations of the proposed LIF points are questionable. Discussed the work plan with J. Kolleeny of DEC. Called and left a message to Gerald Nicholls of Langan. AD

07/28/2014: Called and spoke with Mr. Nicholls regarding the proposed work plan. Requested to add one more LIF point to the north of MW–18. He agreed to this modification. AD

07/31/2014: Sent an approval letter to Mr. Celeste Rufer of NYU. AD

09/23/2014: received a phone call from G. Nicholls. They completed soil investigation and will start well reinstallation in the next week. he had a question regarding soil vapor sampling at the site. Recommended to review and analyze data from the previous vapor sampling and to make recommendations based on this review. AD

11/11/2014: Received the following e-mail from G. Nicholls:

Ainura,

I hope this email finds you well. We wanted to update you on progress of the activities associate with the 7/17/2014 Supplemental Site Investigation Work Plan.

Work is proceeding as planned. We completed the laser-induced fluoresce (LIF) investigation to better understand the LNAPL source and to develop a conceptual site model. Based on LIF results, we replaced 5 of the 0.75-inch wells with 2-inch wells to improve sampling efficiency. We also installed a 4-inch recovery well. The attached figure shows the newly-installed well locations. After well installation and development, we sampled nine wells to delineate the current plume extent the sampled wells are circled on the attached figure. We are also performing a site survey to measure well locations and elevations so that a groundwater flow direction can be determined.

We are in the process of receiving the groundwater data. Once all the data is received, we will finalize the conceptual site model and prepare a report per the Supplemental Site Investigation Work Plan.

Let us know if you have any questions.

Regards,

Gerry

Gerald Nicholls, PE, CHMM Senior Project Manager Direct: 212.479.5559 Mobile: 609.933.5330

AD

02/18/2015: Received the following e-mail from G. Nicholls:

Ainura,

Via the link below, please download the Spill 1009933 – Supplemental Site Investigation Report for your review.

<http://clients.langan.com/lph/default.aspx?postTransaction=440063274>

Regards,

Gerry

Gerald Nicholls, PE, CHMM Senior Project Manager Direct: 212.479.5559 Mobile: 609.933.5330 File Sharing Link

LANGAN Phone: 212.479.5400 Fax: 212.479.5444 21 Penn Plaza 360 West 31st Street, 8th Floor New York, NY 10001-2727  
[www.langan.com](http://www.langan.com) :

Will review. AD

03/10/2015: Reviewed the report. It states that the SSI was implemented between August 12 and November 5, 2014 in accordance with

Langan's July 16, 2014 Supplemental Site Investigation Work Plan. The investigation consisted of a geophysical survey, advancement of Ultra-Violet Optical Screening Tool (UVOST®) laserinduced fluorescence (LIF) probes, advancement of soil borings, installation of groundwater monitoring wells, installation of a product recovery well, monitoring well inventory and gauging, collection and laboratory analysis of soil and groundwater samples, and a site survey.

During the SSI, depth to groundwater ranged from 29.3 to 41.95 feet bgs. Based on the survey data, the groundwater depths corresponded to elevations ranging from about el 2.14 to el 1.64 feet. The groundwater elevation is highest in the northeast and appears to slope downward toward the west-southwest; the anticipated direction of groundwater flow is northeast to southwest. Groundwater flow may also be influenced locally by tides and the presence of underground man-made structures (pipes, foundations, etc.).

SSI: The SSI was completed between August 12 and November 5, 2014 and consisted of the following activities: – A geophysical investigation to identify subsurface utilities and anomalies; – Advancement of 13 UVOST LIF Probes; – Advancement of four soil borings and collection of 19 grab soil samples for laboratory analysis; – Installation and sampling of five monitoring wells, and sampling of four existing wells; – Installation of one 4-inch diameter recovery well; and – Gauging of all accessible wells.

Free product: On October 22, 2014, TEI gauged ten monitoring wells and product was detected in nine of the wells: MW-4, MW-7, MW-8, MW-9, MW-11, MW-12, MW-14, MW-15, and MW-22. A Langan conducted a follow-up round of synoptic groundwater depth measurements on November 5, 2014. Twenty monitoring wells were gauged by Langan, and product was detected in six of the wells: MW-4, MW-7, MW-8, MW-9, MW-11, and MW-14 (MW-12 could not be opened, MW-15 no longer existed when Langan gauged the wells because it was overdrilled when MW-37 was installed, and no product was detected in MW-22). During both gauging events, product thickness ranged from 0.01 feet in MW-9 to 0.85 feet in MW-12. The product thickness was greatest in wells MW-4, MW-7, MW-8, and MW-12, which are all located to the west and southwest of the spill source. There was no product detected in recovery well RW-1.

GW sampling: A Langan conducted a synoptic round of groundwater depth measurements on November 5, 2014. Nine groundwater samples were submitted for laboratory analysis. Groundwater samples were not collected from monitoring wells where product was detected. The highest VOC and SVOC concentrations were detected in samples collected from monitoring wells MW-34, located to the northeast of the spill source, and MW-36 located to the southwest of the spill source. There were no VOCs or SVOCs detected at concentrations above their respective TOGS Class GA AWQS and Guidance Values in samples collected from MW-27, MW-28, MW-32, MW-33, and MW-37.

Conclusions: – Conceptual Site Model ~ Soil samples collected for TPH analysis are described as medium to coarse, angular sands, varying volumes of subrounded to angular gravel/rock fragments and only trace fines. Such soil would permit a relatively rapid vertical migration to the water table. Initially, the product mound would provide enough head to induce radial flow away from its center with only some relatively limited influence from groundwater gradient or small-scale lithological changes. Once the product supply was eliminated, the migration of product would be more influenced by groundwater gradient flow, facilitating migration in the direction of groundwater gradient. – Spill Delineation ~ The LIF investigation successfully delineated the spill impacts on soil to the east of the spill source via probe locations LIF11, LIF18, and LIF22. Additionally, the lower %RE peak at LIF08 indicates a diminishing degree of impacts to the north and northeast. Delineation to the west and southwest was not completed because of the buildings; however, there was no free product observed in the basement monitoring wells. – Groundwater ~ \* The groundwater flow direction is to the west-southwest. \* VOC and SVOC impacts ~ Petroleum-related VOCs and two SVOCs were identified in groundwater at concentrations exceeding the Class GA TOGS AWQS and Guidance Values. Petroleum-impacted groundwater does not appear to be migrating off-site. – Free Product Observations ~ Free product was observed in six monitoring wells with thicknesses ranging from 0.01 in the 12-foot diameter recovery well to 0.51 feet in MW-4, located about 25 feet west of the spill source. Free product does not appear to be migrating off-site. – Recoverable Free Product ~ Recoverable free product was calculated using a relationship between the LIF response data and TPH concentrations, and estimates of the subsurface pore space. The estimated volume of recoverable free product remaining in the subsurface is between 175 and 600

gallons.

Langan's Recommendations: – System Automation ~ The results of the SSI suggest that recoverable oil remains in the subsurface and near the original spill source area. A continuation of free oil recovery via system automation is recommended so that manual recovery is no longer required. \* DEP Discharge Permit ~ As part of the system automation, treated groundwater will be discharged directly to the combined sewer located on Lawrence Street. This will require obtaining a DEP Sewer Discharge Permit as well as constructing a new sewer connection.

– Monitoring Well Decommissioning ~ Based on the results of the well inventory and groundwater sampling performed during this SSI, Langan states that 12 of the 35 wells should be decommissioned.

– Groundwater and Free Product Monitoring ~ The NYSDEC–approved RAWP requires quarterly groundwater sampling events, monthly monitoring well gauging, and monthly reporting. The investigation results indicate that recoverable free product remains in the subsurface, and significant improvements to groundwater quality will not be possible without removal of the free–flowing product. Therefore, while implementing the product–recovery remedy Langan recommends reducing the monitoring and reporting frequency to: annual groundwater sampling events, quarterly gauging events, and annual progress reports. Eight monitoring wells would be sampled annually: MW25, MW27, and MW32 through MW37. All accessible wells would be gauged for depth to water and product thickness during the quarterly gauging events.

– Soil Vapor Sampling ~ Semi–annual soil vapor sampling was conducted between September 2011 and August 2013. Monitoring was continued because PCE, TCE, and carbon tetrachloride concentrations in sub–slab soil vapor triggered a recommendation of mitigation and/or monitoring based on the NYSDOH decision matrices. Based on the indoor air concentrations from the five sampling events, Langan states that these contaminants are not a concern inside of the building and are unrelated to the petroleum spill. Considering the commercial and academic use of the affected buildings, Langan recommends discontinuing the semi–annual soil vapor sampling program.

Several wells should be included into the sampling program and reporting should be on semi–annual basis. Will discuss the Langan's recommendations with J. Kolleeny of DEC. AD

03/31/2015: Discussed the site with J. Kolleeny of DEC. Will issue an approval letter. AD

04/01/2015: Issued and sent recommendations approval letter with the following modifications:

- Monitoring wells MW–5 and MW–10 should be included in the annual groundwater sampling program;
- Progress reports should be submitted to DEC on a semi–annual basis.

AD

12/01/2015: Received the following e–mail from Mr. Nicholls:

Ainura,

We wanted to update you on progress with regard to spill response activities at NYU Tandon (formerly NYU Polytech).

The NYSDEC completed their review of the January 22, 2015 Supplemental Site Investigation Report (SSIR) in March 2015. In a letter dated March 31, 2015, the NYSDEC approved the recommendations made in the SSIR, with modifications to the wells included

in the annual groundwater sampling program and the progress report frequency. The following summarizes completed and anticipated activities at the site:

~ Dual-Phase Extraction System Repair and Automation o A DEP sewer discharge permit was issued on September 22, 2015 allowing discharge of up to 10,000 gallons per day. o Construction of the sewer connection was completed on October 9, 2015. o System operation began on October 26, 2015. About 50,000 gallons have been pumped. The extraction system has not yet recovered measurable product; however, about 7 gallons were recovered by skimming operations conducted in recovery well MW-1 prior to system operation. o Final automation is planned for December 1, 2015 with the installation of a timer on the submersible pump controller. ~ Monitoring Well Decommissioning o Decommissioning of 12 of the 35 wells is anticipated for January 2016. ~ Annual Groundwater Sampling o The first groundwater sampling event was completed in November 2014 and the results were included in the SSIR o The next groundwater sampling event will be conducted later this week. ~ Quarterly Well Gauging/Free Product Monitoring o Monitoring wells were gauged in August 2015. Product was detected in 6 of 18 accessible wells. o The next gauging event is scheduled for later this week. ~ Semi-annual reporting o The first semi-annual progress report will be submitted in January 2016 and will summarize the results of system operation, groundwater sampling, and free product monitoring.

Regards,

Gerry

Gerald Nicholls, PE, CHMM Senior Project Manager Direct: 212.479.5559 Mobile: 609.933.5330 File Sharing Link

LANGAN Phone: 212.479.5400 Fax: 212.479.5444 21 Penn Plaza 360 West 31st Street, 8th Floor New York, NY 10001-2727  
www.langan.com

Report is due. AD

07/12/2016: Received the following e-mail from Langan:

Ainura,

We wanted to confirm that you received the Biannual Report hard copy and inquire about your review schedule.

On a separate note regarding the discharge to combined sewer, based on the consistent reduction in groundwater contamination and the absence of LNAPL in our monitoring/recovery wells, we are considering bypassing the particulate and carbon filtration units to discharge directly from the settling tank to the city sewer. We've collected two samples (in July 2015 and March 2016) for NYCDEP discharge parameters and the concentrations are below the DEP discharge limits. Additionally, our December 2015 monitoring well sample results were below the DEP discharge limits. We submitted a discharge application addendum to the NYCDEP to get approval; however, NYCDEP asked that we confirm that NYSDEC is okay with the change to the pretreatment train.

Please let us know if you are available to discuss a proposal to bypass the particulate and carbon filtration units, and if you require any additional information.

Thanks, Paul

Paul McMahon, P.E. Senior Staff Engineer Direct: 212.479.5451 Mobile: 914.433.1157

Ainura, Please find the attached summary tables and dewatering site plan.

Let me know if you have any questions.

Thanks, Paul

Paul McMahon, P.E. Senior Staff Engineer

Will review. AD

07/13/2016: Reviewed the submitted documents. The Department has received a request from Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) on behalf of New York University, dated July 12, 2016, regarding the wastewater discharge from the on-site frac tank to the municipal combined sewer. Based on the consistent reduction in groundwater contamination and the absence of LNAPL in the site monitoring and recovery wells, Langan proposes bypassing the particulate and carbon filtration units to discharge directly from the settling tank to the city sewer. Two samples collected in July 2015 and March 2016 and analyzed for NYCDEP discharge parameters indicated that the concentrations are below the DEP discharge limits. Discussed the proposal with J. Kolleeney of DEC. It was decided to approve it. AD

07/14/2016: Issued and sent an approval letter to Stephanie Kung of Environmental Health & Safety to:

New York University 10 Astor Place, 6th Floor New York, NY 10003

stating that:

Taking into consideration the data provided, the Department concurs with the proposal to bypass the filtration system, with the following comment: – Routine sampling of wastewater should continue as scheduled; if a contaminant is detected above its DEP standard, usage of the filtration units will again be required.

AD

12/05/2016: Received the following e-mail from Langan:

Ainura,

Via the link below, please download the 2nd NYU Tandon Biannual Monitoring Report for the remediation of NYSDEC Spill No. 1009933. A hard copy of the report is being mailed to you.

The NYCDEP discharge permit expired on December 1, 2016. Because of the consistent lack of product detected in the recovery well (MW-1) and surrounding monitoring wells over recent monitoring events, we did not extend the permit. Our next quarterly groundwater gauging event will be during the week of December 19-23. If no product is detected, we will evaluate a recommendation to close the spill. We will prepare the 3rd Biannual Monitoring Report for submission in January 2017 and request closure, if applicable. If product is detected, we will install recovery socks and continue recovering product and evaluate next steps. .

[http://clients.langan.com/lph/default.aspx?postTransaction=1185897839\\_2016.11.28\\_NYU\\_Tandon\\_Biannual\\_Monitoring\\_Report.pdf](http://clients.langan.com/lph/default.aspx?postTransaction=1185897839_2016.11.28_NYU_Tandon_Biannual_Monitoring_Report.pdf)

Regards,

Gerry

Gerald Nicholls, PE, CHMM Senior Project Manager Direct: 212.479.5559 Mobile: 609.933.5330 File Sharing Link

Will review. AD

01/12/2017: Reviewed the Biannual Monitoring Report: January to June 2016 which documents the progress of the ongoing remediation at the site.

GW and LNAPL gauging: Site-wide groundwater gauging events were conducted on March 3, 2016, June 9, 2016, and, although technically not within this reporting period, September 1, 2016. Nineteen accessible wells were gauged during at least one event. Additional gauging events were conducted April, May, July, and August to monitor wells where product was previously detected. LNAPL has been detected during at least one event in seven wells: MW-4, MW-7, MW-8, MW-9, MW-11, MW-14, and MW-25. LNAPL thickness decreased between the March 2016 and September 2016 gauging events. The groundwater flow, as determined by groundwater elevation measurements obtained on November 5, 2014, is to the southwest.

LNAPL recovery: No LNAPL was recovered via the skimmer pump in the 12-foot-diameter recovery well. Based on the results of groundwater gauging events, oil-absorbent socks were periodically placed in monitoring wells to recover free product. On April 19, 2016, oil-absorbent socks were placed in monitoring wells MW-8, MW-9, and MW-11. The socks were removed on April 28, 2016 and recovered product was observed on all three socks. After the socks were removed, the three wells were gauged and no product was detected. On May 9, 2016, one sock was placed in monitoring well MW-9. The sock was removed on June 9, 2016 and recovered product was observed on the sock. No product was detected in any other monitoring wells during subsequent gauging events. Less than 0.1 gallons of LNAPL were recovered from monitoring wells MW-8, MW-9, and MW-11.

GW sampling: There was no groundwater sampling from wells conducted during the reporting period. The next annual groundwater sampling event is scheduled for November 2016.

Water samples were collected from the settling tank for NYCDEP discharge parameters on March 3, 2016 and September 16, 2016. Sample results are summarized below: – Two VOCs, methyl tert-butyl ether (MTBE) and o-xylene, were detected in the sample collected on March 3, 2016. No VOCs were detected in the sample collected on September 16, 2016. – Detected concentrations did not exceed NYCDEP discharge parameters. The detected MTBE concentration of 11 ug/l exceeded the NYSDEC Technical and Operational Guidance Series (TOGS) Class GA Ambient Water Quality Standard and Guidance Value (AWQS) of 10 ug/l. MTBE is a gasoline additive and is not associated with the fuel oil spill. – No SVOCs were detected in either sample. – No additional NYCDEP discharge parameters were detected at concentrations exceeding the NYCDEP sewer discharge limitations.

The following conclusions and recommendations were made based on field observations and the analytical data:

Conclusions: – Eight gauging events were conducted between March and September 2016. During that period, LNAPL was detected at least once in two monitoring wells. In March 2016, LNAPL was detected in MW-8 and MW-9, and in September 2016, LNAPL was not detected in any accessible site monitoring wells (Note: MW-07 was not accessible). – Less than 0.1 gallons of fuel oil were recovered from oil-absorbent pads placed in monitoring wells MW-8, MW-9 and MW-11. No additional fuel oil was recovered via the dual-phase extraction system because of inadequate product thickness on the groundwater surface in MW-1. – Based on the results of water samples collected from the settling tank in March 2016, the NYSDEC and NYCDEP approved installation of a bypass to the particle filtration and carbon filtration units.

Recommendations and Planned Activities: – Operation of the automated dual-phase extraction system will continue. – Absorbent socks will be placed in monitoring wells if LNAPL is detected, and periodically replaced. – Quarterly monitoring well gauging



and annual groundwater sampling will continue. The next quarterly well gauging event is planned for December 2016, and the next annual groundwater sampling event is planned for November 2016. – The next Biannual Monitoring Report will be submitted in January 2017.

AD

02/03/2017: Received the following e-mail from Langan:

Ainura, Via the link below, please download the 3rd NYU Tandon Biannual Monitoring Report for the remediation of NYSDEC Spill No. 1009933. A hard copy of the report is being mailed to you.

Per my email below, we recommend closure of the spill based on the findings discussed in the report.

<http://clients.langan.com/lph/default.aspx?postTransaction=-1337720423> 2017.02.02\_NYU Tandon\_Biannual Monitoring Report.pdf

Please let us know if you have any questions.

Thanks, Paul

Paul McMahon, P.E. Project Engineer Office: 212.479.5451 Mobile: 914.433.1157 Fax: 212-479-5444

Will review. AD

03/09/2017: Reviewed the report. It states that during the reporting period, site-wide groundwater gauging events were conducted on September 1 and December 22, 2016. Additional gauging events were conducted in July and August at monitor wells where LNAPL was previously detected. Prior to June 2016, LNAPL was detected during at least one gauging event in seven monitoring wells: MW-4, MW-7, MW-8, MW-9, MW-11, MW-14, and MW-25. No LNAPL was detected during the June 2016 and December 2016 gauging events. The groundwater flow, as determined by groundwater elevation measurements obtained on November 5, 2014, is to the southwest.

Groundwater sampling was conducted on November 3 and 4, 2016. Prior to sampling, a minimum of three well volumes were purged from each well, groundwater parameters (pH, conductivity, turbidity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP]) had stabilized and turbidity measurements were below 5 Nephelometric Turbidity Units (NTU).

Groundwater samples were collected from seven 2-inch-diameter monitoring wells (MW-05, MW-10, and MW-33 through MW-37), and from one 1-inch-diameter monitoring well (MW-32). Since annual groundwater monitoring began in November 2014, the total VOC and SVOC concentrations have generally decreased or remained constant, with some exceptions. Total VOC and SVOC concentrations in individual monitoring wells, where at least one VOC or SVOC was detected at a concentration above its TOGS Class GA AWQS. Total VOC concentrations decreased or remained stable in all monitoring wells except MW-10. Total VOC concentrations increased in well MW-10 between December 2015 and November 2016; however, the total VOC concentration in MW-10 during the November 2016 monitoring event was about 140 ug/L less than the total VOC concentration detected in MW-05 in December 2015.

A water sample was collected from the settling tank for NYCDEP discharge parameters on September 16, 2016. An additional sample was collected on November 4, 2016 and analyzed for TCL VOCs and SVOCs. – No VOCs were detected in the sample collected on September 16, 2016. Sixteen (16) VOCs were detected in the sample collected on November 4, 2016. – Detected concentrations did not exceed NYCDEP discharge parameters. One VOC, 1,2,4-trimethylbenzene, was detected at a concentration of 5.5 ug/L, which exceeded the NYSDEC TOGS Class GA AWQS of 5 ug/L. – No SVOCs were detected in sample collected on September 16, 2016. Five SVOCs were detected in the sample collected on November 4, 2016; however, no SVOC concentrations exceeded the NYCDEP discharge

parameters or NYSDEC TOGS Class GA AWQS. – No additional NYCDEP discharge parameters were detected at concentrations exceeding the NYCDEP sewer discharge limitations.

Conclusions – No additional LNAPL was recovered via the dual-phase extraction system and no LNAPL was detected in any of the monitoring wells between June and December 2016. – An annual groundwater sampling event was conducted on November 3 and 4, 2016. The VOC and SVOC concentrations in individual monitoring wells typically decreased or remained stable compared to the two previous annual groundwater sampling events. Total VOC and SVOC concentrations decreased from maximum concentrations of about 187 ug/L and 116 ug/L, respectively, in December 2015, to 47 ug/L and 56 ug/L, respectively, in November 2016.

Recommendations and Planned Activities: ? Based on the lack of LNAPL detected during gauging events and recovered through the extraction system, and the significant and stabilized decreases in dissolved VOC and SVOC concentrations between November 2014 and November 2016, we recommend administrative closure of NYSDEC Spill No. 1009933. ? After spill closure, the following activities will be completed: – Decommissioning of monitoring wells in accordance with CP-43; and – Dismantling and removal of the automated recovery system.

Will discuss case closure request with J. Kolleeny. AD

03/20/2017: Discussed the case closure request with J. Kolleeny. Since, there were only two monitoring events with no free product in the site wells, one more round of LNAPL monitoring should be performed to ensure its permanent absence. AD

03/22/2017: Called and spoke with Mr. McMahon of Langan. Explained why spill case closure will be pending. He agreed to do one more round of monitoring at the site. Sent him the following-mail:

Hi Paul,

As per our today's phone conversation, DEC requires to perform one more gauging event at the site to ensure that there will be no LNAPL re-appearance in the site wells in the future. Usually, the Department requires one year of free product monitoring since first record of "No Product" in the site wells. Spill closure will be pending the results of this gauging event.

Sincerely,

Ainura Doronova

AD

04/24/2017: Received an e-mail from Langan with attached summary table with gauging results and monitoring wells plan saying:

Good afternoon Ainura,

Per your request, we performed a monitoring well gauging event on April 11, 2017 at the NYU Tandon site (NYSDEC Spill No. 1009933). Fifteen monitoring wells were gauged on April 11, and no LNAPL was detected in any of the monitoring wells. Due to equipment storage on the site, five monitoring wells that were gauged during the previous gauging event in December 2016 were not accessible. We coordinated with NYU Tandon building management to access the additional wells, and on April 24 we returned to the site and gauged four additional monitoring wells. No product was detected in any of the 19 gauged monitoring wells between April 11 and 24.

Please find the following attached to this email: Table 1 ~ Groundwater Gauging Summary ~ Updated 4/24/2017

Figure 2 ~ Monitoring Well Location Plan ~ Updated 4/24/2017

Please let us know if you have any questions.

Thanks, Paul

Called and spoke with Mr. McMahon of Langan. Told him that the submitted data will be reviewed and discussed with J. Kolleeny and if DEC will need a summary report instead of just tables, I will let him know. AD

05/01/2017: Received e-mail from Langan saying:

Ainura,

We revisited the site today to access one of the previously inaccessible wells (MW-8). See attached updated table. The oil-water interface probe did not register any LNAPL in MW-8.

Thanks,

Gerry

Gerald Nicholls, PE, CHMM Senior Project Manager Direct: 212.479.5559 Mobile: 609.933.5330

Will review. AD

05/05/2017: Discussed the new data with J. Kolleeny. Based on the investigative and remedial actions performed at the site such as: – Excavation and removal of the 6,000-gallon UST. – Excavation of an approximately 35-foot by 25-foot area surrounding the tank to a depth of 40 feet bgs. – Installation of a manually-operated groundwater and LNAPL recovery system consisting of the 12-foot diameter well, a submerged pump that transferred groundwater to a 21,000 gallon fractionation/settling tank, and a floating skimmer pump that transferred LNAPL to 55-gallon drums; – Installation of 32 groundwater monitoring wells. – Monthly monitoring events including groundwater depth and LNAPL thickness gauging; – Quarterly groundwater sampling; – Biannual sub-slab soil vapor and ambient air quality sampling.

and taking into consideration the following information:

– LNAPL absence in all site wells since May 2016; – An annual groundwater sampling event was conducted on November 3 and 4, 2016. The VOC and SVOC concentrations in individual monitoring wells typically decreased or remained stable compared to the two previous annual groundwater sampling events. Total VOC and SVOC concentrations decreased from maximum concentrations of about 187 ?g/L and 116 ?g/L, respectively, in December 2015, to 47 ?g/L and 56 ?g/L, respectively, in November 2016;

it was decided to approve spill closure request. Case closed. AD



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**WATERSIDE #2**  
700 1ST AVENUE

**MANHATTAN, NY** NO ZIP PROVIDED

**Spill Number: 9912141**

**Close Date: 10/17/2007**

**ADDRESS CHANGE INFORMATION**

Revised street:

Revised zip code:

Source of Spill: COMMERCIAL/INDUSTRIAL  
Notifier Type: Responsible Party

Spiller: STEVE ROMERO – WATERSIDE #2  
Notifier Name: STEVE ROMERO

Spiller Phone: (212) 580–6763  
Notifier Phone: (212) 580–6763  
ext: 070699

Caller Name: STEVE ROMERO  
DEC Investigator: TLGIBBON

Caller Agency: CON EDISON  
Contact for more spill info: STEVE ROMERO

Caller Phone: (212) 580–6763  
Contact Person Phone: (212) 580–6763

Category: Known or probable release, where, without action, there is a potential for a fire/explosion hazard (indoors or outdoors), contamination of drinking water supplies, or significant release to surface waters.

Class: Willing RP – DEC Field Response – Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

Spill Date	Date Cleanup Ceased	Cause of Spill	Meets Cleanup Standards	Penalty Recommended
01/20/2000		HUMAN ERROR	NO	NO

Material Spilled	Material Class	Quantity Spilled	Units	Quantity Recovered	Units	Resource(s) Affected
TRICHLOROETHENE (TCE)	HAZARDOUS MATERIAL	0.00	GALLONS	0.00	GALLONS	SOIL

**Caller Remarks:**

TEST BORINGS ARE BEING DONE IN PREPARATION FOR SALE OF PROPERTY. PHASE II INVESTIGATION. CON ED #129694

**DEC Investigator Remarks:**

Prior to Sept, 2004 data translation this spill Lead\_DEC Field was O'CONNELL

1/20/99, 5:05 PM: spoke with Joe Floryshak (Con Ed Remediation). Sampling of groundwater coming into wells which were set into concrete slabs at Waterside #2 northwest section near 1st Ave. May possibly be from historical usage of cleaning fluids on the site. (JHO)

1/26/00: copy of spill report faxed to Shaminder Singh (DEC HWR). (JHO)

APPENDIX B SITE NO. 18. BEING ADDRESSED AS PART OF FIRST AVENUE PROPERTIES VCA # V-00(429-432). TOM GIBBONS IS CENTRAL OFFICE PROJECT MANAGER. (JHO)

~~~~~ e2mis no. 129-694:

20-jan-2000 During the subsurface investigation (Phase II ESA) of the Waterside Gen Station, being performed for the potential sale of the property, analytical results from water samples collected from core boring TW2 and TW3 which were installed in the vicinity of the pullboxes in the northwest corner of Waterside #2 Basement, revealed elevated concentrations of what appears to be a degraded TCE.

Borings TW2 and TW3 were installed through the basement slab (approx. 3' thick) along the east side of the pullboxes which run north-south along the First Avenue side of Waterside #2. Although no odors or oily sheens were observed in the water samples collected at these locations – laboratory results indicate levels of chloroethane at 2000 ppb, 1,1,1-Trichloroethane at 1,000 ppb, 1,1-dichloroethane at 800 ppb, carbon tetrachloride at 110 ppb, and benzene at 25 ppb in water collected from TW2. Laboratory results for water collected from TW2 indicate concentrations of chloroethane at 28 ppb, 1,1-dichloroethane at 30 ppb, and 1,1,1-trichloroethane at 8.6 ppb. In addition, heavy metals analysis indicates arsenic at 43.4 ppb, chromium at 212 ppb, and lead at 149 ppb in the water sample collected from TW2 and chromium at 69.8 ppb, lead at 17.8 ppb and mercury at 5.1 ppb in water collected from TW3.

Further discussion/evaluation of this finding, including the development of a conceptual remediation plan, will be included in the Phase II ESA investigation report being drafted for the Waterside Gen Station. New information will be included in this spill report as it arrives.

27-jan-00 The laboratory results and field observations concerning boring TW2 & TW3 were discussed with Jane O'Connell of the NYSDEC on January 20, 2000. Jane indicated that the issue would be discussed with the DEC Hazardous Waste Department (Shaminder Singh) and any follow-up questions/requests would be forwarded to Con Ed Remediation.

As per EHS Remediation Request – responsibility for cleanup was transferred from the Station to EHS Remediation.

Oct. 17, 2007 – First Avenue Properties (616, 685, 700 and 700 First Avenue) were accepted into the Voluntary Cleanup Program on June 27, 2001. TRC and East River Realty Company, LLC, are the Volunteers. Since 2001, TRC (also the engineering consultant) has managed the investigation, remediation and demolition activities on these four properties. At all four properties, all structures have been removed and all soil down to the development depth (the shallowest of either the watertable or the bedrock) has been removed. In addition, any significantly contaminated soils below the development depth, which may be impacting groundwater above criteria (and potentially migrating offsite), have been remediated. Groundwater throughout all four properties has also been investigated and continues to be monitored, if warranted. Impacts identified under this spill number are being addressed or will be addressed under this voluntary order. As such, this spill has been closed.



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**CENTER OF EFFECTED AREA**  
**HOLLIS AVE/207TH ST**

**SPRINGFIELD GARDENS, NY** NO ZIP PROVIDED

**Spill Number: 0701609**

**Close Date: 05/14/2007**

**ADDRESS CHANGE INFORMATION**

Revised street:

Revised zip code:

Source of Spill: UNKNOWN  
 Notifier Type: Local Agency  
 Caller Name:  
 DEC Investigator: jbvought

Spiller: UNKOWN;  
 Notifier Name:  
 Caller Agency:  
 Contact for more spill info: SHAY MCATAMNEY

Spiller Phone:  
 Notifier Phone:  
 Caller Phone:  
 Contact Person Phone: (917) 642-6331  
 ext: CELL

| Spill Date       | Date Cleanup Ceased | Cause of Spill   | Meets Cleanup Standards |                    | Penalty Recommended |                      |
|------------------|---------------------|------------------|-------------------------|--------------------|---------------------|----------------------|
| 05/07/2007       |                     | UNKNOWN          | NO                      |                    | NO                  |                      |
| Material Spilled | Material Class      | Quantity Spilled | Units                   | Quantity Recovered | Units               | Resource(s) Affected |
| UNKNOWN MATERIAL | OTHER               | 0.00             | GALLONS                 | 0.00               | GALLONS             | GROUNDWATER          |

**Caller Remarks:**

PERC IS MATERIAL SPILLED; HAS BEEN FLUSHED AT FOUR HYDRENS THAT HAVE CATCH BASINS THAT GO DIRECTLY TO GROUND; INVESTIGATING TO FIND SOURCE;

**DEC Investigator Remarks:**

05/08/07-Vought-Off hours spill responder. Vought called DEP McAtamney and during DEP sampling of water mains which were connected to storm water basins, **DEP detected 6ppb TCE in water sample** (note groundwater standard is 5ppb). DEP will trace back via concentration/spatial analysis to see if source can be determined.

05/09/07-Vought-Called DEP McAtamney for update and left message to return call to DEC Vought with update. Vought received callback from McAtamney and spill traced back to 20 water main on Springfield Blvd from Linden Blvd to 109th Street with impacts radiating westward. DEP will perform line flush into sanitary sewer system. DEP notified waste water treatment plants accepting flush. McAtamney will return call to DEC with significant findings or possible source if found.

5/14/07-Vought-Received email from Salome Freud (NYCDEP) including sampling report of 185 samples collected, 26 more will be sampled. Of the 24 results from samples collected 5/12/07 only one was positive with a result of 0.6ppb. The current average of all samples analyzed to date is 1.4ppb. In addition to the distribution samples the second sheet of the report includes seven

samples collected by DOHMF from internal locations of commercial establishments that they inspected and sampled. These samples were analyzed by DEP Distribution Lab and all results were ND. Attached spreadsheet shows highest concentrations detected on 5/9/07 of 11.4ppb from hydrant on 108th Ave and 221st St and 13.0ppb detected on 5/8/07 across from 110-38 Springfield Blvd from water main. Vought also received email on 5/14/07 that 206 samples collected as of 5/13/07 and all of the results available for samples collected on 1/13/07 are ND. The current average of all samples analyzed to date is 1.2ppb. Vought also received copy of press release by NYCDEP.

Spill closed by DEC Vought due to copy of email sent to DEC Southwell and negligible concentrations (and those are decreasing) of TCE and consideration that NYCDEP MCAtaney will continue to keep DEC Vought posted if source is located and also that spill is non-petroleum.



**HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST**

**HOLMES AND MURPHY**  
75 BANK STREET

**ORCHARD PARK, NY** NO ZIP PROVIDED

**Spill Number: 0650529**

**Close Date: 04/09/2008**

ADDRESS CHANGE INFORMATION

Revised street:

Revised zip code:

Source of Spill: GASOLINE STATION OR PBS FACILITY

Notifier Type: Other

Caller Name:

DEC Investigator: fxcgalleg

Spiller:

Notifier Name:

Caller Agency:

Contact for more spill info: JEAN GAILINE

Spiller Phone:

Notifier Phone:

Caller Phone:

Contact Person Phone: (716) 998-7586

Category: Known petroleum or hazardous material release with minimal potential for fire/explosion (indoors or outdoors), drinking water contamination, or releases to surface waters.

Class: Willing RP – DEC Field Response – Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

| Spill Date | Date Cleanup Ceased | Cause of Spill | Meets Cleanup Standards |  | Penalty Recommended |  |
|------------|---------------------|----------------|-------------------------|--|---------------------|--|
| 07/01/2006 |                     | UNKNOWN        | NO                      |  | NO                  |  |

  

| Material Spilled | Material Class | Quantity Spilled | Units   | Quantity Recovered | Units   | Resource(s) Affected |
|------------------|----------------|------------------|---------|--------------------|---------|----------------------|
| GASOLINE         | PETROLEUM      | 0.00             | GALLONS | 0.00               | GALLONS | SOIL                 |

Caller Remarks:

Contamination found in phase II. Also found some solvent impacts. At least one ust was closed in place. Product was found in that ust. Consultants report will be submitted buy 8/30/06.

DEC Investigator Remarks:

7/7/06 Jean Gailine inquiry of status. Doug Reid/LCS regarding report.

7/10/6 LCS states Refi generated phase 2. Solvent impacts were TCE. UST had 6' diameter (3,000 GALLON) suspected installation around 70s/80s. H&M had been there since 1917. USTs filled in early 80s. LCS submitted report to owners for review. JeanG t/c requested report be sent to DEC AND KEEP US INFORMED OF WHEN WORK IS PLANNED TO BE DONE SO WE CAN BE PRESENT. PBS RECORDS DON'T SHOW THIS TANK REGISTRATION.

7/28/6 REPORT RECEIVED. DISCOVERED PARTIALLY CLOSED UST, PRODUCT OBSERVED IN SOILS, ODORS(TP1) AND TCE EXCEEDANCES (TP3). DOUG/LCS T/C REGARDING PLANS, PLEASE ADVISE DEPT. HE WASN'T SURE LCS WAS GOING TO DO WORK. GAILINE T/C, ADVISE DEPT OF WORK TO BE DONE AND WHEN. HE IS WORKING ON IT.



8/20/07 SOIL PILES UNCOVERED.

10/5/6 JEFF-LCS RE STATUS OF REPORT FOR WORK TO BE COMPLETED. NO ANSWER. LEFT MESSAGE FOR GENE REQUESTING SAME.

10/17/6 JEFF, LCS T/C REGARDING SITE STATUS. T/C W/ GENE ON SITE STATUS.

11/2/6 RECEIVED REPORT OF DUPLICATE RESULTS FROM PREVIOUS REPORT. DISCUSSION W/EDWARD DENNING REGARDING STATUS. THEY PULLED UST, DID NOT REGISTER TANK, WAS SITE ASSESSMENT COMPLETED, BACKFILLED W/O DEPT INSPECTION, NEED EXCAVATION SAMPLE RESULTS, DISPOSAL RECEIPTS, ETC. THEY HIRED OPTECH TO PERFORM WORK. GARY T/C STATES HE SPOKE W/SAL AND AS REGARDING UST REMOVAL.

11/6/6 RP/ OPTION LETTER SENT.

11/8/6 Ed Dening regarding site status.

11/10/6 SAC t/c w/Ed Dening. Solves in report, removed tank, Optech/ Gary called to review spill. Confirmed w/Gary that soil pile generated from tank contents. Suspected 1000 gallon gasoline UST. Gary hired to field screen, take two samples of composited walls and bottom, backfill and report if needed. Work performed in July. Thinks tank was closed in early 1990s.

12/27/6 T/C W/HOWIE HOLMES. THEY NEED TO SEND IN SAMPLE RESULTS TO DEPT. FED SITE ASSESSMENT REQUIRED, TANK CLOSURE REPORT, DISPOSAL INFO, REGISTER TANKS, RE-EXCAVATE IF NECESSARY, EXTENT OF CONTAMINATION NEEDED. HE WILL CALL GARY.

12/29/6 HOWIE SPOKE W/GARY. WILL BE SENDING IN REPORTS. OPTECH HAS NOT SENT THEM TO HOWIE YET.

1/2/7 GARY STATES WHEN ON SITE HE CLEANED UST PIT, ONLY HITS WERE OF UST CONTENTS (NOW STAGED), HW SPOKE W/ANDREA, SAL PRIOR TO UST REMOVAL. ON SITE W/HOWIE, GRAVELED AREA IN PARKING AREA WHERE UST WAS. STAGED PILE BEHIND FENCE NEXT TO UNREGISTERED 6,000 GAL AST. SPILL OBSERVED AT THIS LOCATION. OPENED NEW SPILL FOR THIS TANK AND OTHER SPILLS OBSERVED IN WALKAROUND. RCVD COPY OF TCLP RESULTS FOR SOIL DISPOSAL AND BOTTOM/WALL RESULTS. RESULTS SHOW ND FOR EXCAVATION. WILL ARRANGE DISPOSAL AND PROVIDE RECEIPTS. **WILL NEED TO ADDRESS TCE EXCEEDANCES BY OTHER PROGRAM.** DURING WALK AROUND OBSERVED ON-GOING LEAK FROM UNREGISTERED 6,000 GAL AST.(STATED TO BE RESPONSIBILITY SISTER COMPANY-UNITED MATERIALS), STAINED AREAS AROUND UNREGISTERED 1,000 GAL WASTE OIL TANK, TWO 275 GAL ASTS ALSO NOT REGISTERED. OPENED NEW SPILL FOR AST LEAK (SPILL #0651993).

1/4/7 HOWIE HELP W/PBS APPLICATION.

1/8/7 NEED TO SUBMIT APPLICATION.

1/15/7 LANDFILL DISPOSAL SCHEDULED TODAY.

1/22/7 HOWIE T/C. ENSOL DISPOSAL RECEIPTS TO BE SUBMITTED W/TANK CLOSURE REPORT, WILL HIRE OPTECH FOR AST CLEANUP AND CALL WHEN SCHEDULED.

2/12/7 TANK CLOSURE REPORT RCVD. APPROX 37 TONS REMOVED. GARY CLARIFIED THAT THE TANK CONTENTS WERE DIRTY AND WAS THE SOURCE OF SOIL DISPOSAL, BUT THE EXCAVATION WAS CLEANED, SAMPLED.

4/10/7 HOLMES RE TP1 AND TP3 NEED TO BE REMEDIATED. MAY WANT TO KEEP PILES SEPARATE DUE TO TP3 TCE SOLVENT CLASSIFICATION. UST REMOVAL UNDER SPILL #0651993 MAY MEET WITH THIS SPILL AREA.

4/19/7 T/C W/ HOLMES RE SOLVENT AREA CLEANUP. PLEASE FAX DEC REQUIREMENT TO CLEANUP.

4/20/7 T/C W/ HOLMES, SENT DEC RP LTR REQUIRING CLEANUP OF SOLVENT AREA. ASKED FOR PLAN/ W/ TIMEFRAME ON WORK START DATE. HE WANTS TO WAIT UNTIL AUCTION OF EQUIPMENT 2 WKS FROM NOW.

5/2/7 ON SITE W/HOWIE ON OTHER SPILL (#0651993). HOWIE STATES IN NEXT WEEK OR TWO, HE WILL PLAN TO CLEAN UP REMAINING TWO AREAS OF THIS SPILL. HIS CONTRACTOR HAS NOT SUBMITTED A PLAN TO HIM YET.

6/6/7 HOWIE HOLMES MET ON SITE AND STATES HE HAD TANK MOVED AND GRAVEL PLACED. CGM REQUESTED START DATE FOR REMAINING WORK TO BE COMPLETED (SOLVENT IMPACTED SOILS REMOVED). HOLMES STATED HE IS IN CONTACT W/OPTECH REGARDING TANK REMOVAL. HE THOUGHT IT WASN'T NECESSARY TO REMEDIATE SOLVENT SOILS. REFERRED HIM TO 11/6/6 DEC LTR WHICH REQUIRED CLEANUP. HOLMES WILL NOTIFY DEPT BY MONDAY, 6/11.

6/15/07 H HOLMES LEFT MSG THAT OPTECH WILL START SOIL REMOVAL OF SOLVENT IMPACTED SOILS ON THURSDAY 6/21/07. OPTECH WAS HIRED TO PID AND DETERMINE EXTENT OF EXCAVATIONS.

6/21/07 H HOLMES MSG STATING EXCAVATION FOR WASTE OIL AST SOIL STAINS AND TEST PIT #3- PART SOLVENTS SOIL REMOVAL READY FOR INSPECTION (SPILL #0651993), AND SOLVENT EXCAVATIONS (TEST PIT #S 1,5) TO BE STARTED TOMORROW.

CGM ON SITE INSPECTED TEST PIT AREA #3 IN AREA OF WHERE WASTE OIL SAT. BOTH EAST AND WEST SIDES ARE EXPOSED TO THE LIMITS AT ~6' DEPTH. APPROXIMATELY 21' OF BUILDING FOUNDATION (WEST SIDE) IS EXPOSED WITH HEAVY OIL STAINS. THE EAST SIDE EXCAVATION IS ~34' LONG EXPOSED UP TO OLD BURIED RAIL LINE. THE NORTH AND SOUTH SIDES ARE ~20' AND APPEAR TO HAVE REMOVED ALL WASTE OIL STAINS. OPTECH STATES THEIR READS INDICATE ALL SOLVENTS HAVE BEEN REMOVED AND WILL COLLECT FOUR SIDE WALLS AND ONE BOTTOM SAMPLE RUNNING 8260/8270 STARS.

6/22/07 CGM ON SITE IN AM TO REVIEW W/ H HOLMES OTHER REQUIRED TEST PIT W/ EXCEEDANCES TEST PIT #1. H HOLMES SHOWS OCT 2006 QUOTE FROM LCS INDICATING A NEED TO ALSO ADDRESS TEST PIT #5 DUE TO ELEVATED BUT NOT EXCEEDING ACETONE RESULTS. H HOLMES WILL EXCAVATE BOTH TEST PITS.

CGM BACK ON SITE WITH H HOLMES IN PM, OBSERVED TEST PIT AREA #3 BACKFILLED, TEST PIT AREA #1 DOWN TO WHAT APPEARED TO BE 4' HAD SEGREGATED SOIL PILES AND HAD PIT WATER. TEST HOLE SMALLER THAN TEST PIT INDICATED ON LCS SAMPLE MAP. CGM T/C W/OPTECH REGARDING PIT FINDINGS, READS SUGGEST THEY OBTAINED CLEAN PIT, PIT DEPTH IS 6' W/ 2' WATER. OPTECH WILL RETURN TO SAMPLE THIS PIT FOR 8260/8270. TEST PIT AREA #5 HAD SEGREGATED PILES, OPTECH INDICATES THAT SMALL AREA WITHIN PIT HAD HITS AND REMOVED PORTIONS TO OBTAIN CLEAN PIT/ NO PID READS. WALL AND BOTTOM SAMPLES WERE OBTAINED TO RUN 8260 ONLY. H HOLMES STATES HE WILL BE RESPONSIBLE FOR COLLECTING THREE SEPARATE TCLP ANALYTICAL FOR LANDFILL APPROVALS. EMPHASIZED NEED TO KEEP PILES SEPARATE **DUE TO POSSIBLE HAZ LEVELS OF SOLVENTS**. HE WILL NEED TO SUBMIT LAB RESULTS AND DISPOSAL RECEIPTS.

7/10/07 HOWIE HOLMES T/C W/CGM STATING NO TEST RESULTS RECEIVED YET. WILL CALL OPTECH TO INQUIRE.

7/11/07 CGM T/C W/HOWIE HOLMES THAT OPTECH STATES ALL OKAY W/SAMPLES. HOWIE HOLMES TO CALL ENSOL AND TCLP SOIL PILES FOR DISPOSAL. DEPT NEEDS COPIES OF ALL ANALYTICAL AND DISPOSAL RECEIPTS.

CGM T/C W/OPTECH CONFIRMS EXCAVATION SAMPLES CAME BACK ND, NOT EXCEEDING TAGM. H&M TO FORWARD COPIES OF RESULTS.

7/16/07 DEPT RECEIVES OPTECH SAMPLING RESULTS FROM HOLMES AND MURPHY. ALL SHOW ND. TANK SLUDGE TCLP RESULTS SHOW MTBE AND BTEX.

7/30/07 CGM ON SITE. SOIL PILES COVERED/ON POLY. SPOKE W/OFFICE STAFF REQUESTING TCLP RESULTS AND DATE OF SOIL DISPOSAL. 60

DAY DISPOSAL REMINDER. HOWIE HOLMES T/C W/CGM. RECEIVED TCLP, WILL FAX. ENSOL PREPARING DISPOSAL. TCLP RESULTS FAX RECEIVED BY DEPT. NOT SHOWING HAZ LEVELS.

8/10/07 H HOLMES LEAVES MSG STATING SOIL DISPOSAL TO BE COMPLETED NEXT WEEK.

8/20/07 CGM ON SITE. NO CHANGE. H&M SOILS STILL ON SITE. LEFT MSG AT H&M OFFICE TO COVER SOIL PILES AND NOTIFY UPON REMOVAL. MET W/MIKE C RE APPLICATION. FAXED APPL MOD FORM FOR UPDATING EXISTING INACTIVE PBS REGISTRATION 9-504661. H HOLMES STATES ENSOL HIRED TO REMOVE. CGM T/C W/ADAM H STATES THEY WERE NOT HIRED TO REMOVE SOILS.

8/27/07 H HOLMES MSG STATING NOW ENSOL COORDINATING DISPOSAL.

9/6/07 NICK MORIELLE T/C W/CGM STATES DENNIS WEIS-DEC APPROVED LANDFILL REQUEST FOR SOIL DISPOSAL. NICK TO DRIVE BY FOR ESTIMATING QUANTITY OF SOILS AND NOTIFY HOWIE H FOR DEPOSIT.

9/26/07 CGM T/C W/H HOLMES SOIL IS NOT GONE YET.

9/27/07 H HOLMES T/C W/CGM STATES NICK CONFIRMS TWO TRUCKS ARRIVE TOMORROW. HOLMES TO LOAD INTO TRUCKS.

9/28/07 CGM ON SITE W/H HOLMES. SOIL PILES BEING HAULED AWAY TODAY. APPROX FOUR TRUCKS LOADED OUT SO FAR. WAITING FOR RETURN OF 1-2 TRUCKS FOR REMAINING SOIL PILE. WILL SUBMIT DISPOSAL RECEIPTS UPON COMPLETION.

3/19/08 LETTER SENT REQUESTING DISPOSAL RECEIPTS BY 4/2/08.

4/9/08 DISPOSAL RECEIPTS HAVE BEEN RECEIVED. NO FURTHER WORK IS REQUIRED.