



# Ecosystems Strategies, Inc.

24 Davis Avenue, Poughkeepsie, NY 12603

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October 9, 2015

Ms. Jamie Verrigni  
Project Manager  
New York State Department of Environmental Conservation (NYSDEC)  
Division of Environmental Remediation, Remedial Bureau C  
625 Broadway, 11<sup>th</sup> Floor  
Albany, New York 12233-7014

via email: [jamie.verrigni@dec.ny.gov](mailto:jamie.verrigni@dec.ny.gov)

Re: Letter Report of Dense Non-Aqueous Phase Liquid (DNAPL) Recovery System Evaluation at the Greyston Bakery Site, located at 104 Alexander Street  
City of Yonkers, Westchester County, New York  
NYSDEC VCP ID: V00361; ESI File: GY99143.74

Dear Ms. Verrigni:

This Letter Report of DNAPL Recovery System Evaluation (Letter Report) summarizes the results of the rehabilitation work and investigation performed by Ecosystems Strategies, Inc. (ESI) in August and September 2015 at the Greyston Bakery Site (the Site).

## **BACKGROUND**

The DNAPL recovery system was installed as part of the remedial activities outlined in the NYSDEC-approved Work Plan for Site Closure Activities (Work Plan, ESI, October 2000) for the Site. The DNAPL recovery system, installed between April 2002 and July 2003, is located in the east-central portion of the Site. The system consists of a “funnel and gate” sub-grade hydraulic barrier, directing DNAPL to a collection chamber. A Selected Site Features Map depicting the location of the DNAPL recovery system is presented as Figure 1, Attachment A. As built drawings of the DNAPL recovery system are presented as Figures 2 and 3, Attachment A.

Field evidence of contamination and historical laboratory data indicate that a likely source of DNAPL is present at the adjoining upgradient property to the northeast. Product removal from the DNAPL recovery system was conducted in 2003. No DNAPL was detected in 2004 and 2005 but was observed in 2006. DNAPL has not been observed in the recovery well since 2006. DNAPL was observed during installation and well development activities at monitoring well MW-3R, upgradient to the recovery system, in December 2013. No DNAPL was observed at MW-3R during the April 2015 sampling event.

ESI recommended in the 2015 Periodic Review Report (PRR) that additional work be conducted to determine whether the absence of DNAPL is indicative of: 1) the lack of on-site DNAPL in recoverable amounts; or, 2) inability of the collection system to intercept DNAPL.

## **WELL REHABILITATION**

Rehabilitation activities at the Site were conducted by Enviro Waste Oil Recovery, LLC under the oversight of ESI on August 18, 2015. Rehabilitation activities consisted of the removal of particles adhered to the well screen utilizing a pressure washer. The watertable inside the well was depressed in order to gain access to the well screen (approximately 13 to 20 feet below surface grade) by removing groundwater via a vacuum truck. A pressure washer wand was then extended to reach and clean the screen. Approximately 1,750 gallons of groundwater inside the recovery well were removed during rehabilitation activities. A waste manifest documenting the removal of groundwater is presented as Attachment B.

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No DNAPL was measured in the recovery well before or after well rehabilitation activities. A moderate sheen was observed on the standing water in the recovery well. Moderate petroleum odors were noticed during well rehabilitation activities.

Photographs documenting well rehabilitation activities are provided as Attachment C.

### **WELL GAUGING EVENTS**

Recovery well gauging events were conducted on August 26 and September 24, 2015 by ESI personnel. No DNAPL was measured in the recovery well at either gauging event. A moderate sheen was observed on the standing water in the recovery well during both events. Slight to moderate petroleum odors were noticed during both events.

### **CONCLUSIONS & RECOMMENDATIONS**

The absence of DNAPL in both the rehabilitated recovery well and in the upgradient monitoring well MW-3R appears to confirm the lack of on-site DNAPL in recoverable amounts at the respective well screen intervals.

**ESI recommends that the recovery well be decommissioned in accordance with NYSDEC's CP-43: Groundwater Monitoring Well Decommissioning Policy. The Site Management Plan will continue to be implemented, with exception of elements pertaining to the DNAPL recovery well. The next PRR will be submitted on April 2008, as per NYSDEC's letter dated June 23, 2015.**

Please review this letter and contact me at (845) 452-1658 should you have any questions or require additional information.

Sincerely,

ECOSYSTEMS STRATEGIES, INC.

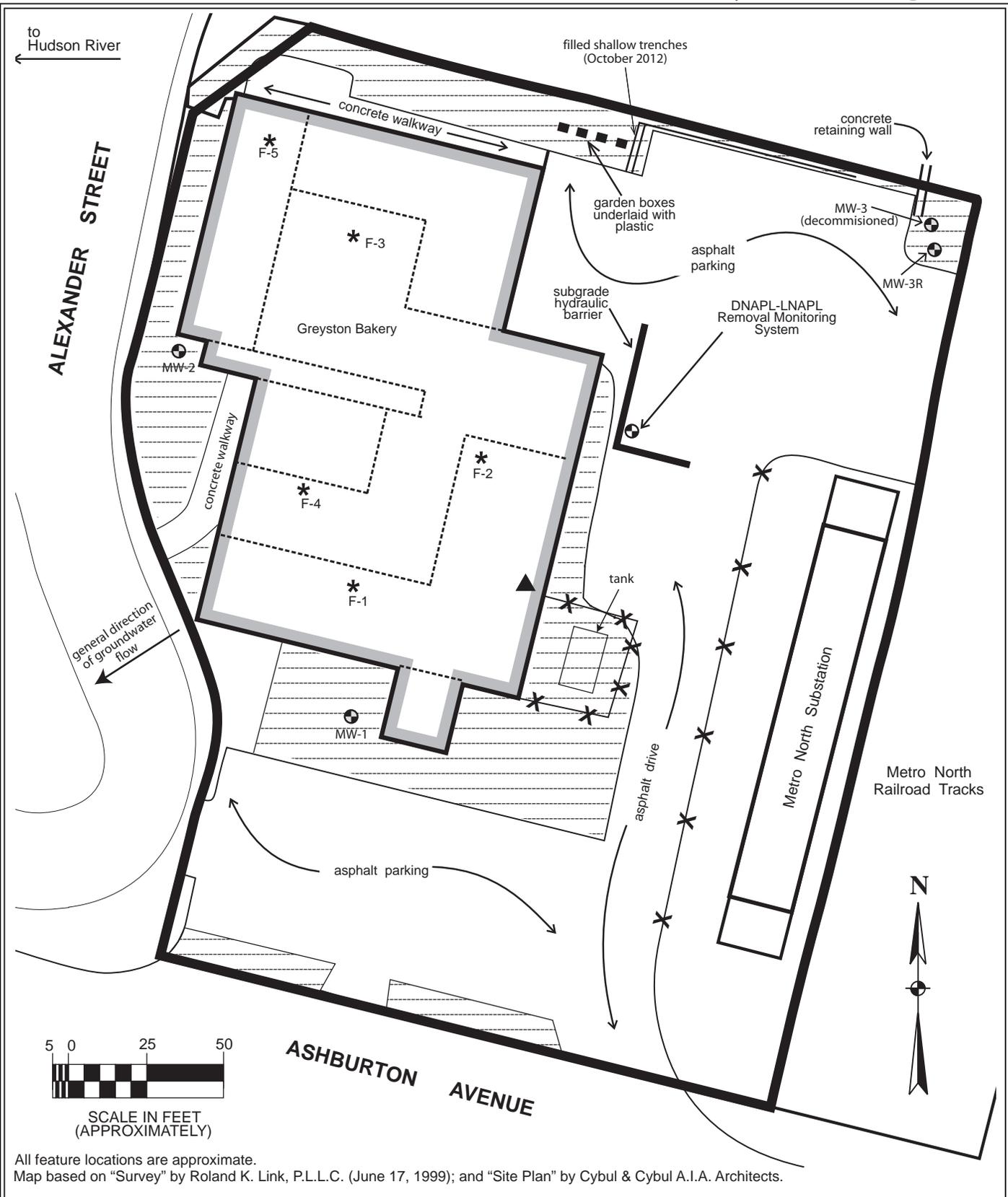


Paul H. Ciminello  
President

PHC:RAM

#### Attachments:

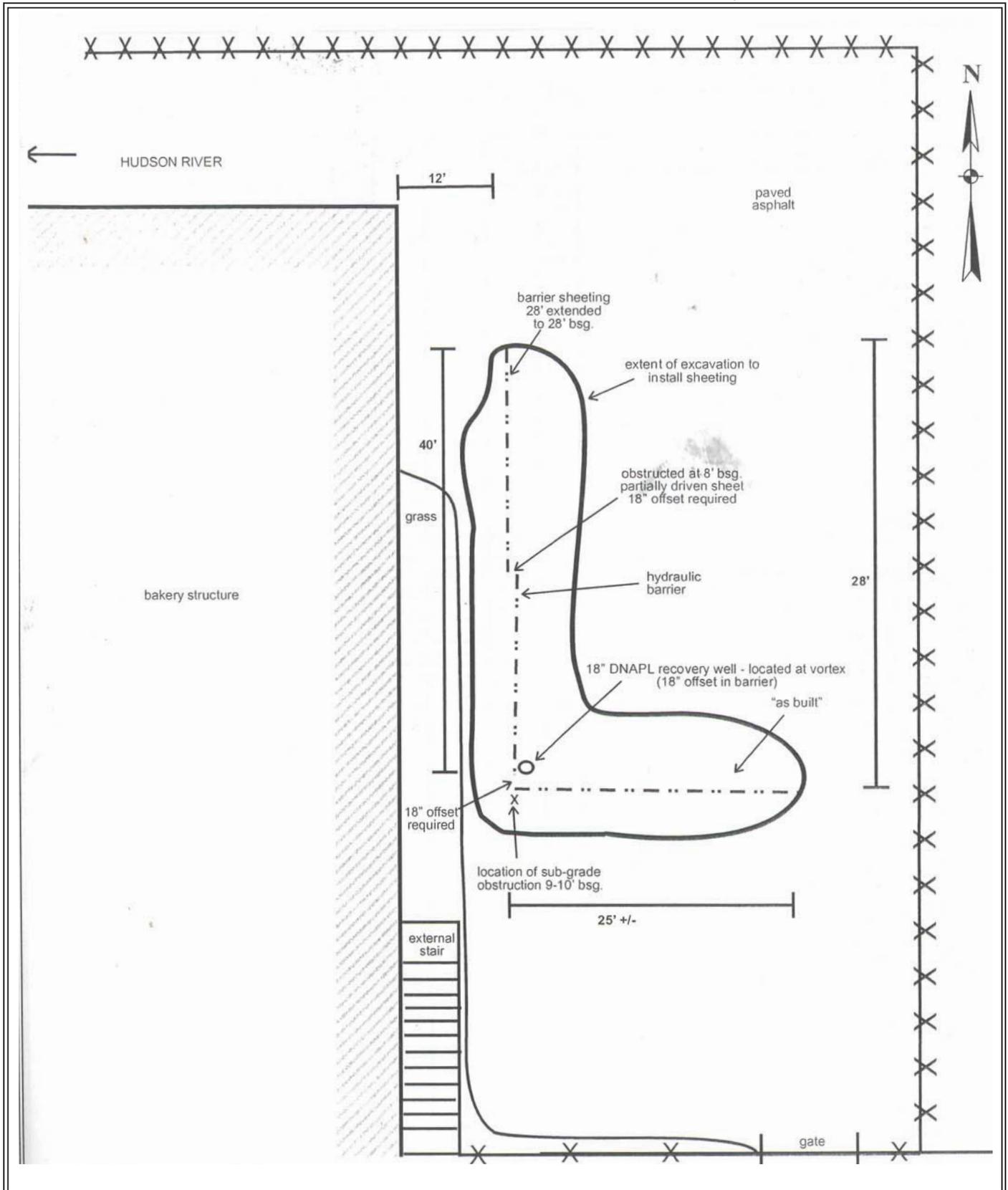
- A – Figures
- B – Waste Manifest
- C – Photographs



**Figure 1: Selected Site Features Map**  
 104 Alexander Street  
 (formerly known as 104 Ashburton Ave.)  
 City of Yonkers  
 Westchester County, New York

Legend:	
subject property border	
monitoring wells	
VES monitoring point	
VES roof discharge point	
area of GCL barrier	
chain link fence	

ESI File: GY99143.74
October 2015
Scale as shown
Attachment A



**Figure 2: "As Built" Drawing  
Funnel & Gate System**

104 Alexander Street  
(formerly known as 104 Ashburton Ave.)  
City of Yonkers  
Westchester County, New York

Legend:

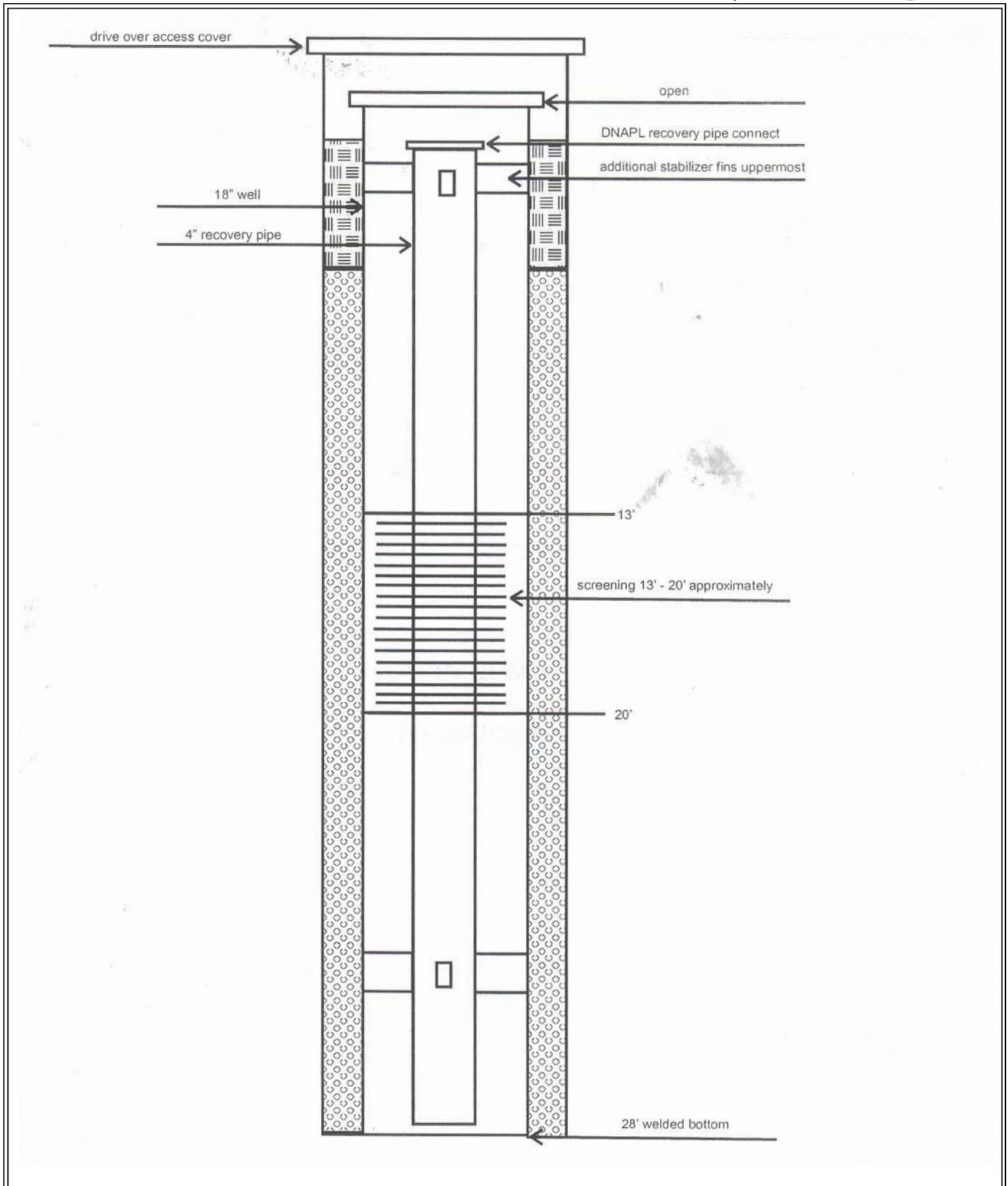
chain link fence — x — x — x

ESI File: GY99143.74

October 2015

Scale as shown

Attachment A



**Figure 3: "As Built" Drawing  
DNAPL Recovery System Detail**

104 Alexander Street  
(formerly known as 104 Ashburton Ave.)  
City of Yonkers  
Westchester County, New York

Legend:



gravel pack 1"



bentonite seal 12" typical

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Not to scale

Attachment A

**ENVIRO WASTE OIL RECOVERY, LLC**

279 Route 6 • P.O. Box 747

Mahopac, NY 10541

Ph: (845) 279-0263

Fax: (845) 621-3075

**Enviro Waste**  
Oil Recovery Specialists  
**1-866-WASTE-OIL**

Sales Order Number: **296181**

Sales Order Date: **8/18/15**

Page:

*Dm 134*  
*8-18-15*



**SOLD TO:**

**ECO SYSTEMS STRATEGIES**  
24 DAVIS AVENUE  
POUGHKEEPSIE, NY 12603

**SHIP TO:**

**INC ECOSYSTEMS STRATEGIES**  
105 ALEXANDER STREET  
YONKERS, NY 10701

CUSTOMER ID <b>2195-010</b>	PO NUMBER	SALES REP NAME <b>HOUSE</b>
CUSTOMER CONTACT <b>845-452-1658</b>	SHIPPING METHOD	PAYMENT TERMS <b>COD</b>

DESIGNATED FACILITY ENVIRO WASTE OIL STATE ID NO \_\_\_\_\_  
ADDRESS 279 RT 6, MAHOPAC, NY 10541 USA EPA ID NO NYD044825636

QUANTITY	ITEM	DESCRIPTION	UNIT COST	TOTAL
<u>1750</u>	700	OILY WATER DISPOSAL		
<u>1</u>	745	VAC SVC 4HR MIN		
<p>VAC OUT 8/18 @ 8AM - MONITORING WELL 20" ACCESS PORT, 30-35' DEP JOB# GY99143.74 - WITH VAC TRUCK</p>			Subtotal	
			Sales Tax (8.38%)	
			Total	
		A/F _____ W/W _____ FILTERS _____	W/O _____	W/A/F _____

*8:30*  
*12:30*

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

USEPA TRANSPORTER 1 ID NO <b>NYD044825636</b>	GENERATOR USEPA ID NO	GENERATOR STATE ID NO	EMERGENCIES: (866) 927-8364	\$
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US DOT DESCRIPTION	CONTAINERS NO.	TYPE	TOTAL QUANTITY	UNIT WT/VOL
USED OIL, NON REGULATED, (NOT US D.O.T. HAZARDOUS MATERIAL)				
PETROLEUM CONTAMINATED WATER, NON D.O.T., NON R.C.R.A	<u>1</u>	<u>TI</u>	<u>1750</u>	<u>gal</u>
PETROLEUM CONTAMINATED SLUDGE, NON D.O.T., NON R.C.R.A				

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

I CERTIFY THAT MY TOTAL WASTE STREAMS ARE WITHIN ONE OF THE FOLLOWING CATEGORIES:

ENVIRO WASTE, ITS AGENTS AND CONTRACTORS HAVE THE CAPACITY AND ARE AUTHORIZED AND PERMITTED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, TO TRANSPORT, ACCEPT, STORE, RECLAIM OR AND/OR DISPOSE OF THE WASTE LISTED ON THIS DOCUMENT.

0 TO 220 LBS/MONTH  
1090  
INITIALS

GENERATOR CERTIFIES THAT THE WASTE IS:  USED OIL  USED ANTI-FREEZE  OILY WATER  OTHER \_\_\_\_\_

220 LBS TO 2,200 LBS/MONTH  
INITIALS

PRINT NAME: Rosaura Andujar-McNeil TITLE: EST PM  
SIGNATURE: Rosaura Andujar-McNeil DATE: 8/18/2015  
GENERATOR/CUSTOMER

DEXSIL CDT TEST RESULTS  
PPM 4000

GREATER THAN 2,200 LBS/MONTH  
INITIALS



PHOTOGRAPHS



1. DNAPL recovery well prior to rehabilitation work.



2. DNAPL recovery well during rehabilitation work (pressure washer wand left and vacuum truck hose right).