

Appendix G Groundwater Sampling Report to Support the NYSDEC SPDES Permit for Construction Activity at the South Brooklyn Marine Terminal, August 14, 2007

**GROUNDWATER SAMPLING REPORT
TO SUPPORT THE NYSDEC SPDES PERMIT
FOR CONSTRUCTION ACTIVITY AT THE
SOUTH BROOKLYN MARINE TERMINAL
BROOKLYN, NEW YORK**

August 14, 2007

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1.0 INTRODUCTION

This Groundwater Sampling Report (Report), prepared by Henningson, Durham & Richardson Architecture and Engineering, P.C. (HDR), summarizes the groundwater sampling activities that were conducted on behalf of the New York City Economic Development Corporation (NYCEDC) at the South Brooklyn Marine Terminal (SBMT) located in Brooklyn, New York (site). Figure 1 shows a plan view of the site.

1.1 Purpose

Infrastructure improvements will be made to the SBMT to accommodate lessees. The infrastructure improvements will likely require for the contractor to come in contact with groundwater and have to dewater. The New York State Department of Environmental Conservation (NYSDEC) is requiring the submission of analytical sampling results of water from the site from a certified laboratory using United States Environmental Protection Agency (USEPA) approved methods. The analytical sampling results provided in this Report will be reviewed by the NYSDEC to determine if groundwater removed from the site can be pumped from excavation trenches into a nearby storm sewer for disposal. The storm drain system available during dewatering is depicted in Figure 2.

1.2 Work Plan

HDR submitted a Work Plan (Work Plan) for the groundwater sampling activities to the NYSDEC for review on May 8, 2007. The Work Plan outlined the proposed sampling plan (including temporary groundwater monitoring well locations and field sampling procedures) to be followed during the field sampling activities. The NYSDEC provided HDR with comments on the Work Plan on June 11, 2007. HDR provided the NYSDEC with a final Work Plan, on June 19, 2007, revised to address NYSDEC comments.

2.0 SITE INFORMATION

2.1 Site Description

The site is located from the 29th Street to 39th Street piers, adjacent to the Gowanus Bay and the Bay Ridge Federal Navigation Channel, Upper New York Bay, New York Harbor and extends to 2nd Avenue.

NYCEDC is leasing the majority of SBMT to the Axis Corporation. Axis will be operating an auto terminal on site, and will sublet space to a general stevedore. The SBMT facility was once a container terminal and was closed during the 1980's.

TRC Environmental Corporation performed a Phase I Environmental Site Assessment of the SBMT in 2002. The following information related to the site and its history is based on the Phase I Environmental Site Assessment Report, dated August 2002, prepared for the NYCEDC by TRC Environmental Corporation:

- The site is used mostly for storage of new automobiles and automobile impounding for the New York City Police Department (NYPD).
- The site is on Block 662 Lot 1 and is designated as an M3-1: Heavy Manufacturing District
- Structures on the site include: street sheds on 39th street and 35th street consisting of 1-2-story warehouse buildings, a 2-4 tower building occupied by the NYPD and a 1-2 story "N" warehouse building.
- The site is surrounded by Consolidated Edison – Gowanus Generating Station to the north, warehouse, industrial and manufacturing buildings to the south, U.S. Federal Bureau Prison, warehouse, industrial and manufacturing buildings and Costco to the East and New York Bay to the west.
- The site has been used in the past for residential dwellings, commercial buildings (stores) and offices, lumber and coal storage, warehouse buildings, a paper pulp mill shredding plant, parking garages, machine shops, sheds, railroad tracks, a fire station, a ferry terminal, paint shops, the New York City Transit System, bus garages, gasoline and oil storage, and cargo storage.
- Historical Sanborn Maps depict that four 160,000 gallon oil/diesel oil aboveground storage tanks (ASTs), a diesel oil filling station with associated underground storage tanks (USTs), and numerous UST gasoline tanks were located on the site since 1951. The NYCEDC is looking into the status of these tanks.

In order to identify known locations of reported spills in the area of the SBMT, Environmental Data Resources, Inc. (EDR), a commercial environmental data retrieval service, conducted a database search for HDR. The databases include various Federal and State records regarding USTs, leaking tanks, spills, hazardous waste generators, etc. Databases are searched based on prescribed ASTM E 1527-00 radii typically used for Phase I Environmental Site Assessments. The report produced by EDR was examined and relevant spills and leaking UST (LTanks) sites are within a quarter mile of the site are provided in Table 1 below. A complete electronic copy of the report will be provided upon request.

2.2 Geology

A geotechnical investigation was performed in 2002 by Site Blauvelt Engineers for the NYCEDC. Per the August 2002 Geotechnical Report, the subsurface soils at the site mainly consist of manmade fill, hydraulic fill, sand, silt and silty sand/sandy silt. The manmade fill, encountered at depths from 5 to 40 feet below ground surface (bgs) consists of silt and/or sand mixed with cinder ash, brick fragments, concrete fragments and wood. The hydraulic fill primarily consists of sand and silt, with some fine to coarse gravel and was encountered at approximated depths of 20 to 38.5 feet bgs. Sand was encountered at varying depths between 3 to 29 feet bgs and was characterized as “loose” to “medium dense”. Silt was encountered at varying depths ranging from 28 to 40 feet bgs and was characterized as “very soft” to “firm”. Silty sand/sandy silt was encountered at varying depths from 5 to 40 bgs and was characterized as “very loose/very soft” to “medium dense/stiff”. The Geotechnical Report states that “well-defined soil strata could not be identified across the project site. Especially in shallower borings it was difficult to distinguish between hydraulic fill and natural soil deposits.” Bedrock was not encountered.

Table 1

Reported Spills and LTanks Sites within 1/4 mile

Site Name	Address	Database	Spill No.	Spill Date	Spill Closed Date	Source	Affected Resource
33 rd & 2 nd Avenue	33 rd St. & 2 nd Ave.	NY Spills	9606591	8/22/96	11/21/96	Pier collapsed with car into Gowanus Canal	Surface Water
New York City Transit	36 th St. & 2 nd Ave.	NY Spills	0103012	6/18/01	12/23/02	Equipment Failure	Soil
Vault 5745	36 th St. & 2 nd Ave.	NY Spills	9808387	10/7/98	10/23/02	Unknown	Soil
TM #2125	32 nd St. & 2 nd Ave.	NY Spills	0010041	12/6/00	1/18/01	Unknown	Soil
12-15 37 th Street	12-15 37 th Street	NY Spills	9313215	2/7/93	2/7/94	Unknown	Soil
MC 88802	39 th St. & 1 st Ave	NY Spills	0103110	6/20/01	7/20/01	Unknown	Soil
BS 3181	39 th St. & 1 st Ave	NY Spills	9905186	7/30/99	4/4/02	Unknown	Soil
Interdynamics, Inc.	80 39 th Street	NY Spills	9402614	5/23/94	5/24/94	Abandoned Drums	Soil
116 39 th St./ Magnolia Ind.	116 39 th St./ Magnolia Ind.	LTanks	9201695	5/12/92	5/12/92	Tank Overfill	Soil
FGP Bush Terminals	148 39 th Street	LTanks	9514887	2/21/96	2/24/03	Tank Overfill	Soil
116 39 th Street	116 39 th Street	LTanks	9411889	12/6/94	12/6/94	Tank Overfill	Soil

3.0 SAMPLING ACTIVITIES

HDR and its subconsultant, Aquifer Drilling and Testing, Inc. (ADT), performed a groundwater investigation in July 2007. Field sampling activities were conducted over three days from July 16, 2007 through July 18, 2007. Six (6) groundwater samples (one per installed well) were obtained from the six temporary wells installed in the general areas where dewatering will occur to characterize the groundwater condition. Figure 3 depicts the final sampling locations and includes some modifications due to field conditions that did not allow access to the originally proposed sampling locations. Prior to installation of the temporary monitoring wells, HDR's subconsultant, Naeva Geophysics, Inc., performed a geophysical investigation to search and mark out detectable subsurface utilities within a 10-foot radius of the temporary well locations.

In accordance with the final Work Plan, the groundwater samples were analyzed for the parameters included in Attachment A to this Report.

Results of the investigation are included in Section 4.0.

3.1 Groundwater Sampling

A total of six (6) shallow temporary groundwater monitoring wells (TMW-1 through TMW-6) were installed on July 16, 2007 through July 18, 2007 to a depth of 11 feet to 15 feet below the ground surface with the lower 10 feet screened, and then developed. The groundwater monitoring wells were purged and a single sample was obtained from each well. Prior to purging the monitoring wells, the depth to groundwater was measured using an oil/water interface probe. During purging, but before the collection of groundwater samples, salinity, pH, conductivity, turbidity, and temperature measurements were collected. Free product was not encountered in the groundwater monitoring wells. Once sampled, the monitoring wells were removed and the site was restored to conditions prior to well construction.

Field notes obtained during the groundwater sampling activities can be found in Attachment B of this Report.

4.0 ANALYTICAL RESULTS

Groundwater samples were shipped to HDR's Laboratory Subcontractor, Hampton Clarke-Veritech, for analysis. The groundwater samples were analyzed for the parameters listed on the "NYSDEC Region 2 Dewatering Projects Sampling Information" sheet for discharge to a storm sewer, as well as the parameters required by the New York City Department of Environmental Protection (NYCDEP) for discharge to a sanitary sewer. The lists of these parameters are provided in Attachment A of this Report.

The analytical results are provided in Table 2 below.

Per the NYSDEC's guidance, the groundwater analytical results were compared to the NYSDEC Surface Water Quality Standards provided in Part 703.5 based on a surface water classification of I (Secondary Contact, Fishing) for the Upper New York Harbor. Exceedance of the Part 703.5 Standard for mercury was detected in one (TMW-3) of the six groundwater samples. Exceedances of the Part 703.5 Standards for lead and nickel were detected in all six groundwater samples obtained. Exceedance of the Part 703.5 Standard for copper were detected in five (TMW-2 through TMW-6) of the six groundwater samples obtained. Exceedance of the Part 703.5 Standard for zinc was detected in four (TMW-2 through TMW-4 and TMW-6) of the six groundwater samples.

The groundwater analytical results were compared also compared to the NYCDEP's limitations for effluent to sanitary or combined sewers. Exceedance of the NYCDEP's limitations for effluent for mercury was detected in two (TMW-3 and TMW-4) of the six groundwater samples. Exceedance of the NYCDEP's limitations for effluent for cadmium was detected in two (TMW-2 and TMW-3) of the six groundwater samples. Exceedances of the NYCDEP's limitations for effluent for lead and nickel were detected in all six groundwater samples obtained. Exceedance of the NYCDEP's limitations for effluent for copper were detected in five (TMW-2 through TMW-6) of the six groundwater samples obtained. Exceedance of the NYCDEP's limitations for effluent for zinc was detected in four (TMW-2 through TMW-4 and TMW-6) of the six groundwater samples. Slight exceedance of the NYCDEP's limitations for effluent for

**Table 2
Analytical Results
July 2007 Groundwater Sampling
South Brooklyn Marine Terminal**

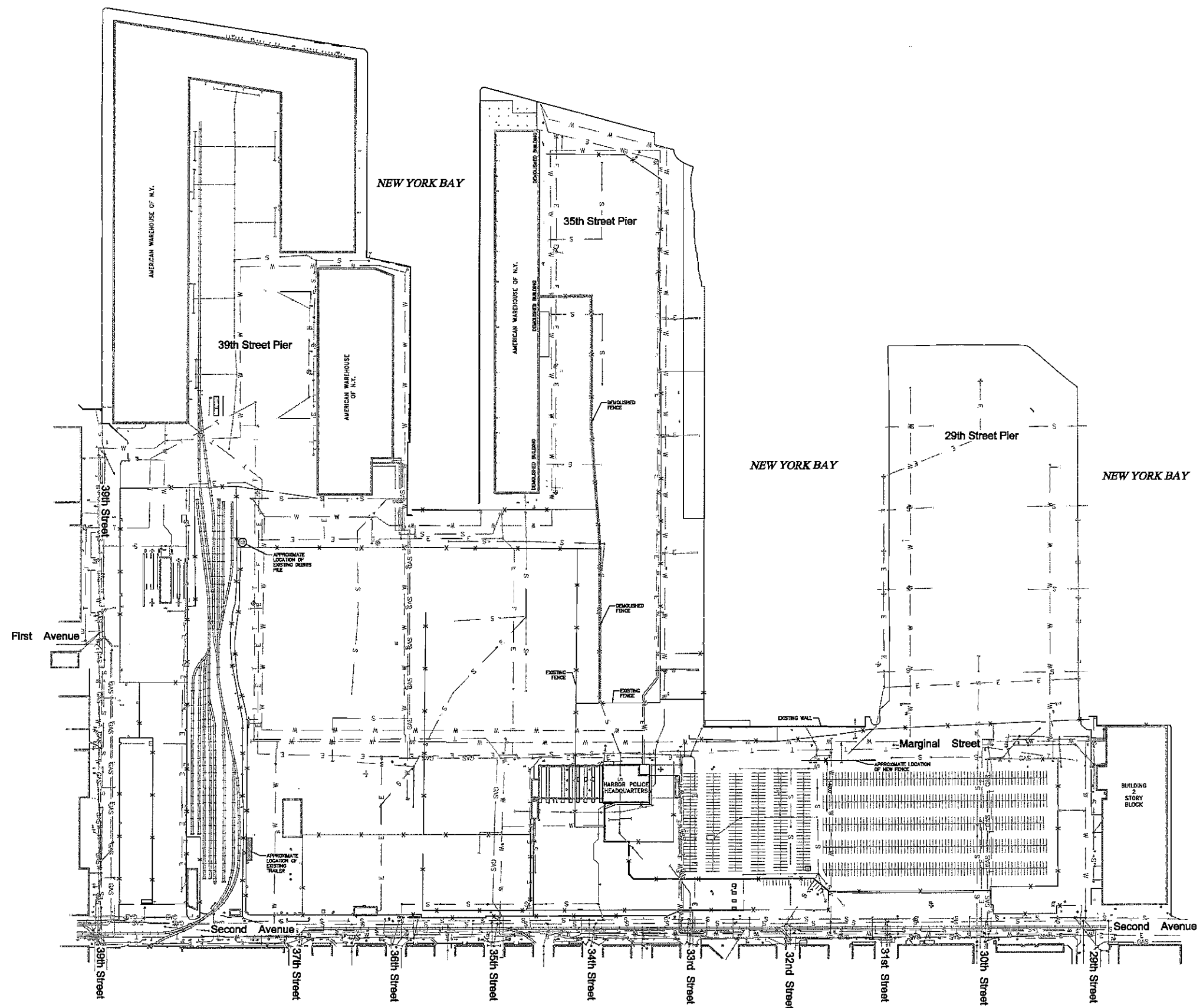
PARAMETER	NYSDEC Surface Water Quality Standards Part 703.5	NYCDEP Limitations for Effluent to Sanitary or Combined Sewers	TMW-1				TMW-2				TMW-3				TMW-4				TMW-5				TMW-6			
			Result	Flg	RL	Units	Result	Flg	RL	Units	Result	Flg	RL	Units	Result	Flg	RL	Units	Result	Flg	RL	Units	Result	Flg	RL	Units
Metals																										
Mercury	0.77	0.05	ND		0.2	ug/L	ND		0.2	ug/L	5.5		0.2	ug/L	0.26		0.2	ug/L	ND		0.2	ug/L	ND		0.2	ug/L
Antimony			ND		7.5	ug/L	ND		15	ug/L	ND		7.5	ug/L	ND		7.5	ug/L	ND		7.5	ug/L	9.7		7.5	ug/L
Arsenic			11		4	ug/L	69		8	ug/L	51		4	ug/L	27		4	ug/L	9.1		4	ug/L	23		4	ug/L
Barium			77		25	ug/L	1200		50	ug/L	1300		25	ug/L	320		25	ug/L	220		25	ug/L	370		25	ug/L
Beryllium			ND		4	ug/L	8.1		8	ug/L	ND		4	ug/L	ND		4	ug/L	ND		4	ug/L	ND		4	ug/L
Cadmium	21	2	ND		2	ug/L	7.4		4	ug/L	2.1		2	ug/L	ND		2	ug/L	ND		2	ug/L	ND		2	ug/L
Chromium			32		25	ug/L	270		50	ug/L	52		25	ug/L	58		25	ug/L	35		25	ug/L	ND		25	ug/L
Copper	5.6	5	ND		25	ug/L	390		50	ug/L	640		25	ug/L	110		25	ug/L	42		25	ug/L	74		25	ug/L
Lead	8/204	2	13		5	ug/L	1600		10	ug/L	1200		5	ug/L	200		5	ug/L	46		5	ug/L	330		5	ug/L
Nickel	8.2/ 74	3	27		10	ug/L	430		20	ug/L	110		10	ug/L	68		10	ug/L	22		10	ug/L	38		10	ug/L
Selenium			ND		25	ug/L	ND		50	ug/L	ND		25	ug/L	ND		25	ug/L	ND		25	ug/L	ND		25	ug/L
Silver			ND		10	ug/L	ND		20	ug/L	ND		10	ug/L	ND		10	ug/L	ND		10	ug/L	ND		10	ug/L
Thallium			ND		5	ug/L	ND		10	ug/L	ND		5	ug/L	ND		5	ug/L	ND		5	ug/L	ND		5	ug/L
Zinc	66	5	ND		25	ug/L	1700		50	ug/L	1100		25	ug/L	420		25	ug/L	ND		25	ug/L	280		25	ug/L
PCBS																										
Aroclor-1016		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Aroclor-1221		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Aroclor-1232		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Aroclor-1242		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Aroclor-1248		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Aroclor-1254		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Aroclor-1260		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Aroclor-1262		1	ND		0.26	ug/L	ND		0.25	ug/L	ND		0.26	ug/L	ND		0.26	ug/L	ND		0.28	ug/L	ND		0.25	ug/L
Other Parameters																										
Carbonaceous Bod, 5 Day			ND		2	MG/L	ND		2	MG/L	25		12	MG/L	ND		2	MG/L	>4.8		2	MG/L	32		2	MG/L
Chloride			100		1.5	mg/L	100		1.5	mg/L	7300		75	mg/L	9.2		1.5	mg/L	4500		75	mg/L	170		7.5	mg/L
Cr (Hexavalent)		5	ND		0.025	mg/l	ND		0.025	mg/l	ND		0.025	mg/l	ND		0.025	mg/l	ND		0.025	mg/l	ND		0.025	mg/l
Flash Point		>140	>141			Deg. F	>141			Deg. F	>141			Deg. F	>141			Deg. F	>141			Deg. F	>141			Deg. F
SGT-HEM (Non-Polar Material)			ND		1.4	mg/L	ND		1.4	mg/L	4.7		1.5	mg/L	2.1		1.6	mg/L	1.7		1.6	mg/L	6.5		1.4	mg/L
Nitrite			ND		0.8	mg/L	ND		0.8	mg/L	ND		0.8	mg/L	ND		0.8	mg/L	ND		0.8	mg/L	ND		0.8	mg/L
Nitrate			ND		0.27	mg/L	0.28		0.27	mg/L	ND		0.27	mg/L	ND		0.27	mg/L	ND		0.27	mg/L	ND		0.27	mg/L
Total Phenolics			ND		0.05	mg/l	ND		0.05	mg/l	0.31		0.05	mg/l	ND		0.05	mg/l	0.057		0.05	mg/l	0.3		0.05	mg/l
pH		5-11	8.1			Ph	6.9			Ph	12			Ph	7.1			Ph	9.8			Ph	12			Ph
Settleable Solids			7		0.1	ml/l	19		0.1	ml/l	13		0.1	ml/l	6.5		0.1	ml/l	0.1		0.1	ml/l	2		0.1	ml/l
Total Solids @ 103-105 C			560		10	mg/l	6200		33	mg/l	13000		100	mg/l	360		10	mg/l	470		10	mg/l	1400		33	mg/l
Total Suspended Solids @ 103-105 C		350	470		4	mg/l	5400		25	mg/l	2300		20	mg/l	1300		6.7	mg/l	53		4	mg/l	140		4	mg/l

pH was detected in two (IMW-3 and IMW-6) of the six groundwater samples. Exceedance of the NYCDEP's limitations for effluent for Total Suspended Solids (TSS) was detected in four (IMW-1 through IMW-4) of the six groundwater samples

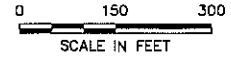
5.0 CONCLUSION

The elevated metals concentrations detected in the groundwater samples are suspected to be primarily due to the high turbidity in the groundwater samples. Therefore, since the groundwater to be removed from the site during construction will be allowed to settle in settling tanks prior to discharging into the storm system, the turbidity, and therefore the concentration of TSS and metals in the groundwater, can be expected to be significantly lower to the concentrations reported in Table 2 and to be in compliance with the Part 703.5 Standards and the NYCDEP's limitations for effluent to sanitary or combined sewers.

FIGURES



NOTES:
 1. NORTHING AND EASTINGS SHOWN ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM (NAD 83) NEW YORK-LI ZONE.



NOTE:
 IT IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

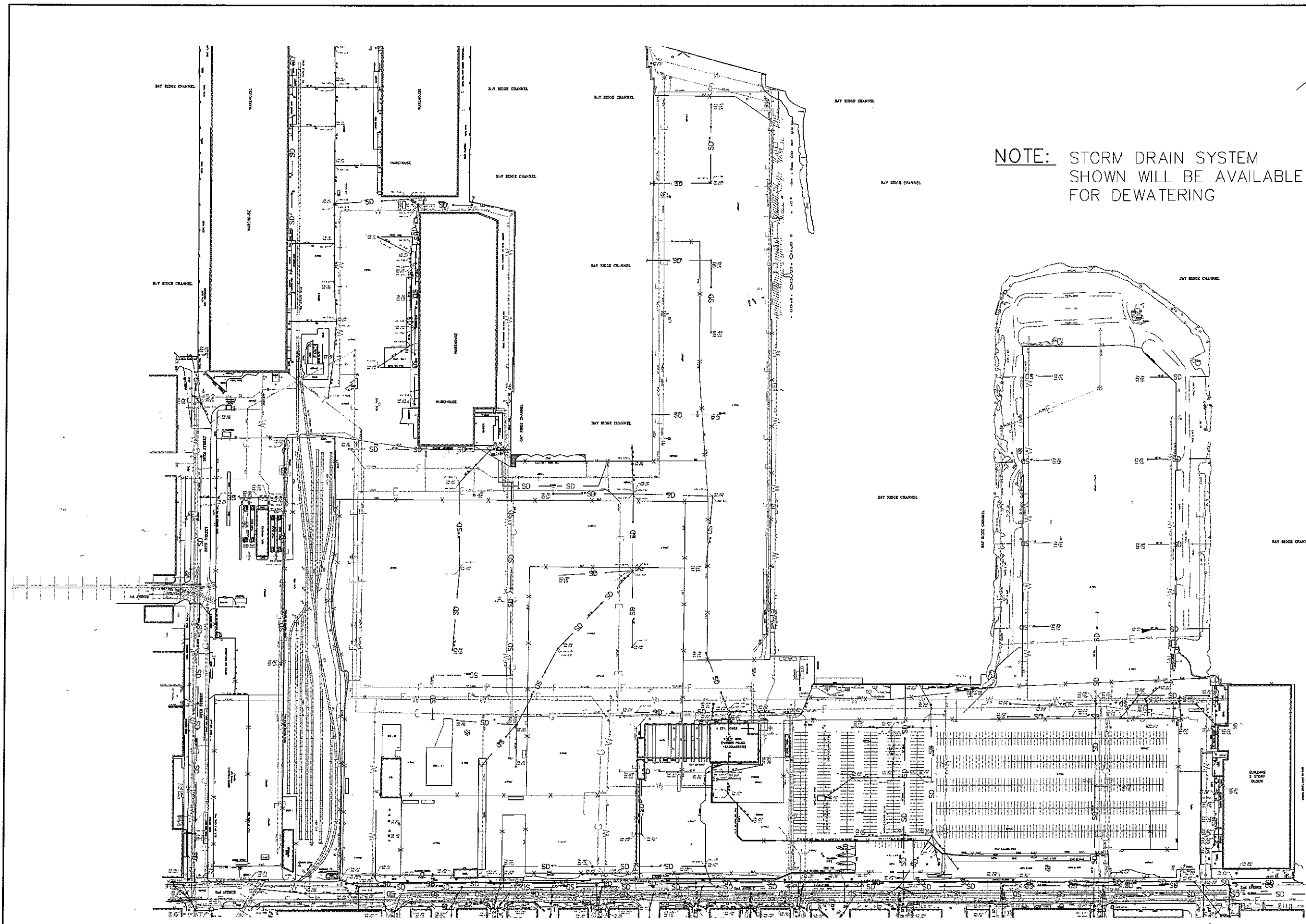


ISSUE	DATE	DESCRIPTION
0	08/14/07	GROUNDWATER SAMPLING REPORT

PROJECT NUMBER	00000000028739
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SOUTH BROOKLYN MARINE TERMINAL
NEW YORK CITY
ECONOMIC DEVELOPMENT CORPORATION
BROOKLYN, NEW YORK

Site Plan		SHEET 00C-01
FILENAME	00C-01.dwg	
SCALE	AS SHOWN	



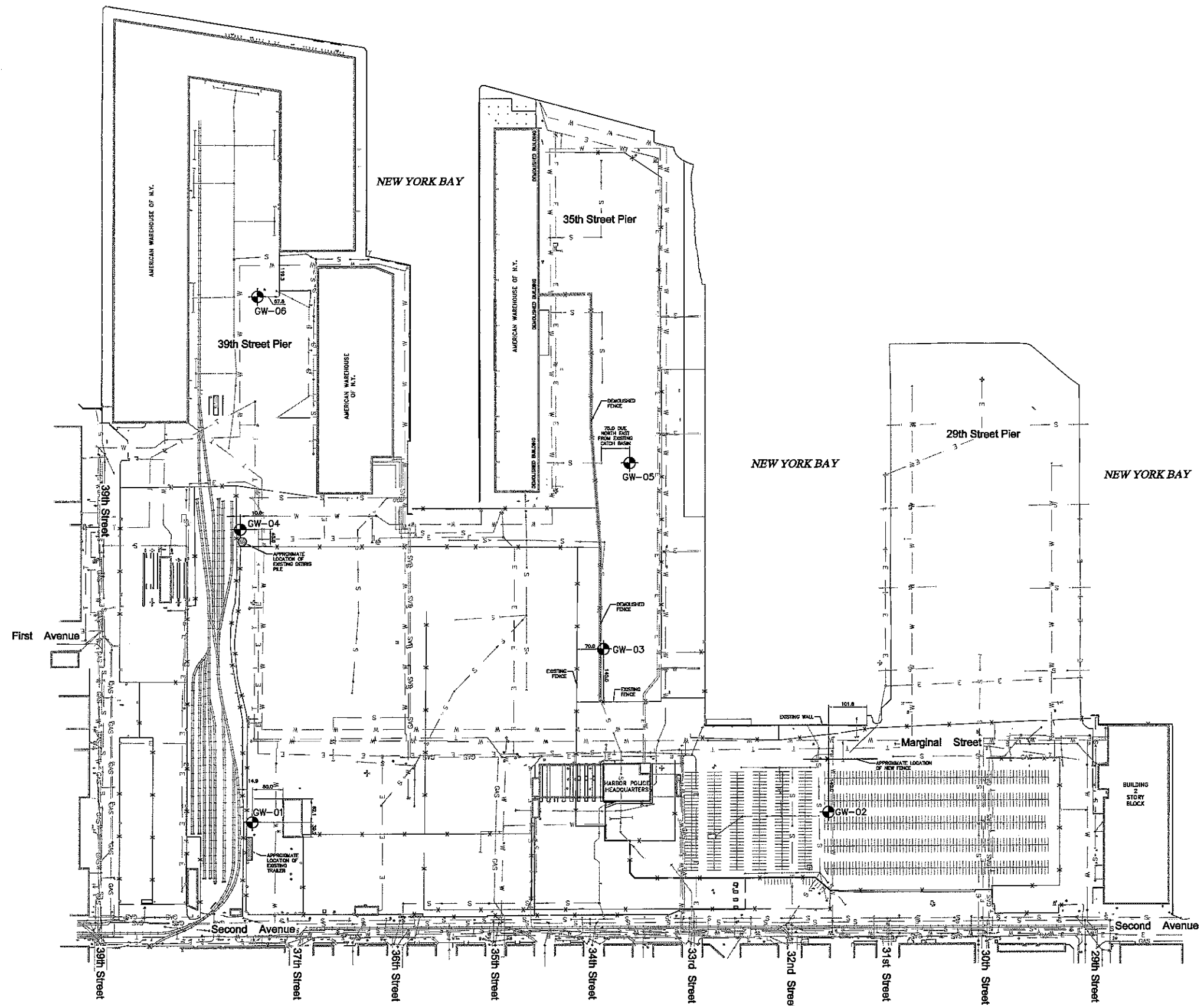
NOTE: STORM DRAIN SYSTEM SHOWN WILL BE AVAILABLE FOR DEWATERING



SCALE: 1"=240'

FIGURE 2

<p>M&N ENGINEERING, P.C. 104 WEST 40TH STREET, 14TH FLOOR NEW YORK, NEW YORK, 10018 212-768-7454</p>		<p>SOUTH BROOKLYN MARINE TERMINAL STORM DRAINING SYSTEM BROOKLYN BOROUGH NEW YORK CITY EDC</p>	
<p>DR</p>	<p>DR</p>	<p>CHK</p>	<p>CHK</p>
<p>DESIGN</p>	<p>SUBMITTED BY</p>	<p>TITLE</p>	<p>DATE</p>
<p>JOB NO. 5630-01</p>	<p>DATE JUN 15, 2007</p>	<p>SHEET OF</p>	<p>REVISION</p>
<p>DESCRIPTION</p>	<p>BY</p>	<p>DATE</p>	<p>DATE</p>



NOTES:
 1. NORTHING AND EASTINGS SHOWN ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM (NAD 83) NEW YORK-L1 ZONE

0 150 300
 SCALE IN FEET

NOTE:
 IT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, OTHER THAN THOSE WHOSE SEAL APPEARS ON THIS DRAWING, TO ALTER IN ANY WAY AN ITEM ON THIS DRAWING. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION



ISSUE	DATE	DESCRIPTION
0	08/14/07	GROUNDWATER SAMPLING REPORT

PROJECT NUMBER	00000000028739
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SOUTH BROOKLYN MARINE TERMINAL
NEW YORK CITY
ECONOMIC DEVELOPMENT CORPORATION
BROOKLYN, NEW YORK

Final Temporary Groundwater Monitoring Well Locations		FILENAME	00C-01.dwg	SHEET	
		SCALE	AS SHOWN		00C-03

ATTACHMENT A

Parameters to be Analyzed

NYSDEC Region 2 - Dewatering Projects Sampling Information				
PROJECT NAME / ID #:				
#	PARAMETER	TYPE	EPA METHOD	DETECTION
1	pH	Grab	150 1	
2	Temperature	°F	After Pumping	
3	Oil & Grease	Grab	1664A	
4	Total Suspended Solids	Grab	160 2	
5	Settleable Solids	Grab	160 5	
6	Benzene	Grab	602	EPA MDL
7	Toluene	Grab	602	EPA MDL
8	Xylenes	Grab	602	EPA MDL
9	Ethelbenzene	Grab	602	EPA MDL
10	MTBE	Grab		
11	Halogenated Volatiles	Grab	601 -GC	EPA MDL
12	Nitrate/Nitrite	Grab	300 or 353 3	EPA MDL
13	Aromatic Volatiles	Grab	602 -GC	EPA MDL
14	13 Priority Metals	Grab	200 series	EPA MDL

NOTES

- Samples are to be collected after development of the well by a licensed well driller duly registered in accordance with Section 15-1525 of the Environmental Conservation Law of the State of New York
- Samples must be analyzed using the EPA method listed above for each parameter. If another method is used, the Department will not accept the results.
- All analysis must be performed by a NYS Department of Health certified laboratory
- The Method Detection Limit (MDL) is the level at which the analytical procedure referenced is capable of determining with a 99% probability that the substance is present. This value is determined in distilled water with no interfering substances present
- When collecting samples, it is expected that the temporary discharge will be contained on site and will not cause or contribute to a contravention of water quality standards.
- The department may require sampling of additional parameters if the proposed dewatering site is suspected of being contaminated

06/07/2007

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTEWATER TREATMENT

LIMITATIONS FOR EFFLUENT TO SANITARY OR COMBINED SEWERS

Parameter ¹	Daily Limit	Units	Sample Type	Monthly Limit
Non-polar material ²	50	mg/l	Instantaneous	---
pH	5-11	SU's	Instantaneous	---
Temperature	< 150	Degree F	Instantaneous	---
Flash Point	> 140	Degree F	Instantaneous	---
Cadmium	2	mg/l	Instantaneous	---
	0.69	mg/l	Composite	---
Chromium (VI)	5	mg/l	Instantaneous	---
Copper	5	mg/l	Instantaneous	---
Lead	2	mg/l	Instantaneous	---
Mercury	0.05	mg/l	Instantaneous	---
Nickel	3	mg/l	Instantaneous	---
Zinc	5	mg/l	Instantaneous	---
Benzene	134	ppb	Instantaneous	57
Carbontetrachloride	---	---	Composite	---
Chloroform	---	---	Composite	---
1,4 Dichlorobenzene	---	---	Composite	---
Ethylbenzene	380	ppb	Instantaneous	142
MTBE (Methyl-Tert-Butyl-Ether)	50	ppb	Instantaneous	---
Naphthalene	47	ppb	Composite	19
Phenol	---	---	Composite	---
Tetrachloroethylene (Perc)	20	ppb	Instantaneous	---
Toluene	74	ppb	Instantaneous	28
1,2,4 Trichlorobenzene	---	---	Composite	---
1,1,1 Trichloroethane	---	---	Composite	---
Xylenes (Total)	74	ppb	Instantaneous	28
PCB's (Total) ³	1	ppb	Composite	---
Total Suspended Solids (TSS)	350 ⁴	mg/l	Instantaneous	---
CBOD ⁵	---	---	Composite	---
Chloride ⁵	---	---	Instantaneous	---
Total Nitrogen ⁵	---	---	Composite	---
Total Solids ⁵	---	---	Instantaneous	---
Other				

- 1 All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 C.F.R. pt 136. If 40 C.F.R. pt 136 does not cover the pollutant in question, the handling, preservation, and analysis must be performed in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater." All analyses shall be performed using a detection level less than the lowest applicable regulatory discharge limit. If a parameter does not have a limit, then the detection level is defined as the least of the Practical Quantitation Limits identified in NYSDEC's Analytical Detectability and Quantitation Guidelines for Selected Environmental Parameters, December 1988.
- 2 Analysis for *non-polar materials* must be done by EPA method 1664 Rev. A. Non-Polar Material shall mean that portion of the oil and grease that is not eliminated from a solution containing N-Hexane, or any other extraction solvent the EPA shall prescribe, by silica gel absorption.
- 3 Analysis for PCB-s is required if *both* conditions listed below are met:
1) if proposed discharge $\geq 10,000$ gpd;
2) if duration of a discharge > 10 days.
Analysis for PCB-s must be done by EPA method 608 with MDI ≤ 65 ppt. PCB's (total) is the sum of PCB-1242 (Arochlor 1242), PCB-1254 (Arochlor 1254), PCB-1221 (Arochlor 1221), PCB-1232 (Arochlor 1232), PCB-1248 (Arochlor 1248), PCB-1260 (Arochlor 1260) and PCB-1016 (Arochlor 1016).
- 4 For discharge $\geq 10,000$ gpd, the TSS limit is 350 mg/l. For discharge < 10,000gpd, the limit is determined on a case by case basis.
- 5 Analysis for Carbonaceous Biochemical Oxygen Demand (CBOD), Chloride, Total Solids and Total Nitrogen are required if proposed discharge $\geq 10,000$ gpd.

ATTACHMENT B
Sampling Field Notes

South Brooklyn Marine Terminal Job 7/16 - 7/18 07
Sean Quarry, Barbara Gedach, Stephanie Nalkel

Contracts:

NS Noemi 917-887-3670 John M. 914-774-0790
BG Barbara 845-742-3633 Steph N. 845-641-3242
JF John Freeman EDC - 917-731-6286 guard
Ganek EDC - 347-739-5817 security
Carmis Grodan - 917-416-8580 - EDC
Michael - OEM - 917-416-4096 - NYDS
ADT - Jeremy/Bernie - J-631-721-7536
Capt Klimski - 646-610-5905 NYPD

TMW-1 - Richie Plaza Depot (used cars)

TMW-2 - NYPD Depot

TMW-3,5 - Stewie - New Car lot

TMW-4,6 - OEM/FEMA site - Michael (OEM)

given site
plan/map

Monday 7/16/07

830 Jim on site

915 BG/SQ/ADT company on site (Jim/SQ site wells)
1-6

1000 Drilling commences @ TMW-1 (fill/sand)

1100 Update @ 10-11' - mobilize to NYPD (TMW-2)

1145 - waiting for the approval @ TMW-2

1230 Lunch for drillers, approval pending @ NYPD

1430 TMW-3 0-5' >100 ppm on PID (fill/sand)

drilled 5-10 >100 ppm

1500 10-14 <10 ppm

515 TMW-3 - whate pump, super turbid/dark >500

- light screen seen?, water @ 9'

- turbid dark, 12 gallons developed

- SWL ~ 1/4' - start to clean up and stop, then dark

- SWL - 6.5' @ 1535 sediment again, NO petroleum odor

1545 - TMW-5 drilled

1550	TMW-5	0-5'	>100 ppm	water @ 5'
	develop, purge	5-10	>50 ppm	13' rock but
	Sample	10-15	750 ppm	well 11.5"

1700 HDR offsite

Tuesday 7/17/07

725 onsite spoke w/ NYPD, no approval

840 drillers onsite, spoke with JF, NS

940 TMW-5 develop, purge, sample, on to TMW-1

1040 TMW-1, moved cars, develop, purged, sample led
 SWL - 7.64, slow sampling water intermittent

1320 completed sampling @ TMW-1, Dallas eating non
 -grant / close note, find NYPD again

1350 @ TMW-4 develop, purge 1400 sampling also SWL 9.96'

... See next sheet SN notes

7/17/07

900 ADT (Jeremy and Bernia) arrive on site.

920 Begin setting up @ TMW-4

observed soils (through drill cuttings)

0-5'	: Asphalt; 3/4" gravel (binder), br. dry sandy silt, chlorine odor w/PID
5-10'	: Some sandy silt w/ little gravel, dk. br., damp, low PID 5-125 ppm
10-15'	: Silty clay, br. - red dy br., wet, trace gravel and organics, no observed odor, PID 0-2 ppm
	: slight chlorine odor quickly.

950 TMW-4 complete. GW @ 10' bgs. Screen 5-15' bgs

Begin @ TMW-6

Observed Soils (through drill cuttings)

0-5'	: Asphalt, 3/4" gravel, sandy silt, red dy br., dry, mild chlorine odor, PID 0-9 ppm
	→ Trace fill and organics, some pebbles
5-10'	: Silty sand, blk., mild odor, PID up to 72 ppm
	→ Trace fill (brick, glass, etc), organics and pebbles
10-15'	: refusal @ 11' bgs

@ both TMW-4 and TMW-6, hit some hardened material 2-3' bgs w/ minor auger refusal. Able to continue boring thro @ both locations.

GW @ TMW-6 @ 8.2' bgs, set well screen 1-11' bgs.

- 1130 Begin removing well and grouting hole @ TMW-³? (near Infinity cars)
GW comes out of hole w/ some soil left. Leave hole to "settle"
- 1145 Begin removing well and grouting hole @ TMW-⁵? (near Nissan cars).
cuttings do not fill hole, GW still visible. Drillers attempt to bridge w/ dry portland cement. Bridging successful and apply blacktop.
- 1200 Return to TMW @ Infinity cars saturated soils (toothpaste consistency)
settled ~ 3" bgs. Drillers mix in dry Portland cement. Will leave overnight and return to tomorrow for asphalt patching.
- 1215 Went to NYPD impound lot. Told no authorization to drill has arrived, therefore cannot enter site.
- 1300 Drillers take lunch break.
- 1330 Backfill and asphalt patch TMW-1 (@ used car lot)
- 1430 Check w/ NYPD impound lot. Still no access
- 1445 Meet S. Quarry @ TMW-4 to assist w/ sampling. Then pull well and back-fill.
- 1539 Go to used car lot, speak to owner regarding drum
- 1600 Go to NYPD lot, speak to officers regarding site access.
- 1605 Call Hampton Clark to schedule pick up of cutters. Franz confirms Nyack pick up for 930 am. Leave for day.

Wednesday 7/18/07

- 515 left Bushen Heavy Rain 75°F
630 left Nyack - Flooding/Traffic/Accidents, etc.
1100 Arrive onsite, @ Tmw-6 to sample
- meet NYPD
1115 developing, purging, sampling, mud then drying up
1215 over to Tmw-3
1230 Portland/Concrete hard, lay asphalt
1245 laseled drum @ Tmw-1, left for transport
1315 NS called verbal for NYPD
1345 @ Tmw-2 NYPD approval, ID check
1400 on Tmw-2 location
- | | | | |
|------------|-------|-----------|-----------------------------|
| | 0-5 | > 50 rpm | fill |
| SWL = 9.47 | 5-10 | > 50 rpm | sand silty material |
| | 10-15 | > 100 rpm | mudgy silty/clay trace clay |
- 1500 developed, purged, sampling @ location
1545 completed sampling
1600 drillers close hole
1615 - Soil samples from drum (left @ Nyack Rig)
- called JF (EAC), NS - drum @ Tmw-1
- fld Ritchie (owner) near Tmw-1
1620 - Samples picked up to Vortech Barber Co.
1630 - signed off for drillers
- letting all owners know done work (left cards)
1645 HDR offsite

TMW-1 well 14', water 10.5' - SWL 7.64 7/17/07

	Purge	Temp	Cond	TDS	SAL	NO ₃	pH	ORP	t
1130	0	18.80	1.042	1675	157	50.0	9.18	54.1	370
1146	1.5	18.50	1.054	1676	157	37.5	9.27	52.9	305
1150	3.0	18.46	1.302	1873	167	25.8	9.40	50.1	82
1200	5.0	18.20	1.224	1788	160	38.0	9.39	33.9	27

TMW-2 well 14.5', 8' water - SWL ^{9.47} 7/18/07

	Purge	Temp	Cond	TDS	SAL	NO ₃	pH	ORP	t
	0	20.49	1.976	1634	148	3.09	8.04	55.58	E-none
	2.5	20.04	.990	1648	149	2.21	7.83	-34.4	
	5.0	20.71	1.940	1618	147	3.38	8.32	-18.2	
	7.5	19.67	1.005	1653	150	2.91	8.07	-81.5	

TMW-3 14' well, water 9' SWL 6.5' @ 1000 7/16/07

	Purge	Temp	Cond	TDS	SAL	NO ₃	pH	ORP	t
	0	22.57	18.59	(21.06)	110.6	1.9(0)	9.32	-42.7	450
	1.5	23.28	17.96	(21.06)	10.62	1.9(0)	9.87	-67.5	157
	3.0	22.91	18.15	(11.68)(0.5)	10.75	1.5(0.5)	9.89	-57.0	337
@ 1603	5.0	22.33	18.33	(11.8)(0.5)	10.87	1.93(0)	9.90	-50.4	471
@ 1600	Sample	21.27	18.76	(11.92)(0.5)	11.17	1.0(0.5)	9.42	-57.4	195

TMW-4 10.5' well water 8' SWL = 7.96'

	Purge	Temp	Cond	TDS	SAL	NO ₃	pH	ORP	t
1358	0	17.41	1.625	1406	131	24.7	8.35	-135.0	670
1202	1.5	17.15	1.622	1405	130	18.8	7.89	-107.5	564
126	3.0	16.08	1.648	1421	132	20.0	7.76	-105.2	354
1210	5.0	16.73	1.649	1422	132	22.5	7.75	-112.2	119

TMW-5 well 11.5' water 9' - 940 SWL - 8082

Depth	Temp	Cond	TDS	Sal	DO%	pH	ORP	←
0	26.25	11.77	7046	6.70	225	9.73	-20.3	180
1.5	25.29	11.45	7025	6.33	1510	9.63	-15.4	162
3.0	25.57	11.33	7036	6.43	1700	9.64	-20.0	92
5.0	24.98	11.32	7052	6.42	1601	9.64	-22.6	84

TMW-6 well 11' 9' water 1300 SWL - 854

Depth	Temp	Cond	TDS	Sal	DO	pH	ORP	←
0	21.25	1.872	1.220	0.96	3.14	9.23	-20.1	
1.5	21.01	1.604	1.042	0.81	2.26	9.40	7.5	None
3.0	22.42	1.785	1.160	0.91	5.95	9.85	27.6	
5.0	21.80	1.760	1.140	0.89	6.20	9.94	28.2	

7/16/07 Calibration Log

TST 556-01

1535 4.0 = 4.9

7.0 = 7.11

10.0 = 9.56

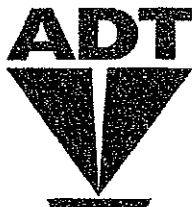
Turbidity 02T-1501E STD. ADRT

0.02 - .3

1.0 16.00

100 112.0

1000 984.0



Aquifer Drilling & Testing, Inc.

ADT JOB NO: 071-07-0221

NYC OFFICE (800) 238-3745 (516) 616-6194 Fax

TROY OFFICE (518) 274-3949 (518) 274-3989 Fax

CONNECTICUT OFFICE (860) 243-0352 (860) 243-8570 Fax

DAILY JOB & SITE INVESTIGATION REPORT

DATE: 7/16/07 CLIENT: HDR DRILLER: Jeremy HELPER(S): Bernice RIG NO: LC55 SUPPORT TRK: 26

JOB LOCATION: South Bk Marina

DESCRIPTION OF WORK: Load at shop. Move. Set 3 Temp. wells. Standby waiting to get into police yard.

Table with columns: TEST BORING DATA & SITE GEOLOGY, DRILLING METHOD, MISCELLANEOUS, and TEMPORARY TEST POINTS. Includes handwritten data for borings 1, 2, and 3.

Table with columns: PERSONNEL, SIGNATURE, AM SHOP, MOBE*, ON SITE, DEMOBE**, PM SHOP, TOTAL. Includes handwritten entries for Jeremy and Bernice.

APPROVED: [Signature] CLIENT REPRESENTATIVE DATE: 7/18/07 PRINT NAME: Sean Quarry Client's signature approves crews ON SITE hours.

White (Client) Yellow (Accounting) Pink (Admin)



Aquifer Drilling & Testing, Inc.

ADT JOB NO.: 07 07-0234

NYC OFFICE (800) 238-3745 (516) 616-6194 Fax

TROY OFFICE (518) 274-3949 (518) 274-3989 Fax

CONNECTICUT OFFICE (860) 243-0352 (860) 243-8570 Fax

DAILY JOB & SITE INVESTIGATION REPORT

DATE: 7/17/07 CLIENT: HDR

DRILLER: Jeremy

JOB LOCATION: East 4th St Marmitt

HELPER(S): Bernie

DESCRIPTION OF WORK:

RIG NO.: LC55

SUPPORT TRK: 26

Load at 5' depth. Make Set 2 temp wells. Pulled 2 wells, and backfilled hole.

Table with columns: TEST BORING DATA & SITE GEOLOGY (BORING NO., TOTAL DEPTH, SAMPLES SOIL, H2O, BL CT, DTW, GRAV/CBLE/BLDER SAND/SILT/CLAY), DRILLING METHOD (KSA, AIR, MUD, ODEX, Footage, Size), CORING (Footage, Size), MISCELLANEOUS (Steam Clean, Standby, Stage Soils, Well Develop, Borehole Grout, Poly Tubing, Concrete Cores, Expend. Points, Drums, Sidewalk Permits), TEMPORARY TEST POINTS (WELL NO., SIZE, SCR, RISER, DEPTH, SAND CHIPS, CMT BENT, SURF(M/S)).

Personnel and timing table with columns: PERSONNEL, SIGNATURE, AM SHOP, MOBE*, ON SITE, DEMOBE**, PM SHOP, TOTAL. Includes handwritten entries for Jeremy and Bernie.

APPROVED: Sean Barry CLIENT REPRESENTATIVE

DATE: 7/18/07

PRINT NAME: Sean Barry

Client's signature approves crews ON SITE hours. * Indicate if Initial Mobilization ** Indicate if Final Demobilization

White (Client) Yellow (Accounting) Pink (Admin)



Aquifer Drilling & Testing, Inc.

ADT JOB NO.: 071-07-023

NYC OFFICE
(800) 238-3745
(516) 616-6194 Fax

TROY OFFICE
(518) 274-3949
(518) 274-3989 Fax

CONNECTICUT OFFICE
(860) 243-0352
(860) 243-8570 Fax

DAILY JOB & SITE INVESTIGATION REPORT

DATE: 7/18/07CLIENT: HDRJOB LOCATION: South BK MARINA

DESCRIPTION OF WORK:

Work at shop 527. Move pull temp wells and patch surface drill temp well clean up - Demobe.

DRILLER: JerryHELPER(S): BerrieRIG NO.: DF 527SUPPORT TRK: 26* Move time LIE closed

TEST BORING DATA & SITE GEOLOGY

BORING NO.	TOTAL DEPTH	SAMPLES			GRAVL/CBLE/BLDER	
		SOIL	H2O	BL CT	DTW	SAND/SILT/CLAY
<u>1</u>	<u>15'</u>					

DRILLING METHOD

HSA / AIR / MUD / ODEX

Footage: 15' Size: 4 1/4"

CORING

Footage: Size:

MISCELLANEOUS

- Steam Clean (hr) _____
- Standby (hr) _____
- Stage Soils (hr) _____
- Well Develop (hr) _____
- Borehole Grout (ft) _____
- Poly Tubing (ft) _____
- Concrete Cores (no.) _____
- Expend. Points (no.) _____
- Drums (no.) _____
- Sidewalk Permits (no.) _____

TEMPORARY TEST POINTS

WELL NO.	SIZE	SCRN	RISER	DEPTH	SAND	CHIPS	CMT	BENT	SURF(M/S)
<u>1</u>	<u>2'</u>	<u>10'</u>	<u>5'</u>	<u>15'</u>					

Arrive Shop @ <u>6:00</u>	Leave Shop @ <u>7:00</u>	Arrive Site @ <u>11:30</u>	Leave Site @ <u>4:30</u>	Arrive Shop @			
PERSONNEL	SIGNATURE	AM SHOP	MOBE*	ON SITE	DEMOBE**	PM SHOP	TOTAL
<u>Jerry</u>			<u>5</u>	<u>5</u>			
<u>Berrie</u>			<u>5</u>	<u>5</u>			

APPROVED: Sean Quarry
CLIENT REPRESENTATIVEDATE: 7/18/07PRINT NAME: Sean Quarry

Client's signature approves crews ON SITE hours.

* Indicate if Initial Mobilization

** Indicate if Final Demobilization

White (Client)

Yellow (Accounting)

Pink (Admin)

Project Specifications/ Bottle Order Form

Project:
SBMT GW

Drop Date: Thu 07/12 Drop Time: Any
Pickup Date Pickup Time

Bottle Order: 10297
Contact: Noemi Santiago
Client: HDR/LMS

Phone: 845-735-8300 Ext:
Cell:
Beeper:

Ship To: Nyack, NY

Pickup From:

Created By: MG
Bottles Prep'd By:

Syringes Ice COC, Lbis Seals Complete Scale? Return?

Comments: *TKN WILL BE SUBCONTRACTED*****

# of Sams	Analysis	# of Bottls	Bottle Type	Preservative	Matrix	Complete	Comment
10	O&G (1664)	20	1L Amber	HCL	9AQ+1FB	<input type="checkbox"/>	
10	pH/Flashpoint	10	500 ml pl plastic	none	9AQ+1FB	<input type="checkbox"/>	
10	Hexavalent Cr (24HR)	10	500 ml plastic	none	9AQ+1FB	<input type="checkbox"/>	
10	PP Metals	10	1L Plastic	HNO3	9AQ+1FB	<input type="checkbox"/>	
10	Phenol	10	500 ml amber	H2SO4	9AQ+1FB	<input type="checkbox"/>	
10	PCB	20	1L Amber	none	9AQ+1FB	<input type="checkbox"/>	
10	TSS	10	1L Plastic	none	9AQ+1FB	<input type="checkbox"/>	
10	CBOD (48HR)	10	1L plastic	none	9AQ+1FB	<input type="checkbox"/>	
10	TKN (SUB)	10	500ml Plastic	H2SO4	9AQ+1FB	<input type="checkbox"/>	
10	NO2(48HR), NO3(48HR), Chloride	10	500ml Plastic	none	9AQ+1FB	<input type="checkbox"/>	
10	VO	20	40 ml vial	HCL	9AQ+1FB	<input type="checkbox"/>	
10	Total Solids/Settable Solids(24hr)	10	500 ml Plastic	None	9AQ+1FB	<input type="checkbox"/>	

To place a bottle order, please call or fax Project Management at: Phone: (973)-244-9770 Fax: (973)-439-1458

Please try to place orders 24 hours in advance to ensure quality service

CHAIN OF CUSTODY RECORD

Veritech/Division of Hampton-Clarke

175 US Hwy 46 West, Fairfield, New Jersey 07004
 Ph: 800-426-9992 Fax: 973-439-1458

Project#(Lab Use Only)

Page 1 of 1

1a) Customer: ADR
 Address: White Plains, NY
 1b) Email/Cell/Fax/Ph: 917-887-3670
 1c) Send Invoice To: ADR White Plains
 1d) Send Report To: Miami Santiago

2a) Project: SBMAT
 2b) Project Manager: Miami Santiago
 2c) Location (City/State): Brooklyn, NY
 2d) Quote#/PO# (If Applicable):

3) Reporting Requirements (please circle)
 Turnaround Time: 24-Hour (100%)
 48-Hour (75%)
 72-Hour (50%)
 1-Week (25%)
 10 Days (10%)
 Standard
 Other: _____
 Report type: Data Sum
 Waste
 Red-NJ/NY/PA
 CLP
 Full/Cat-B
 Cat-A
 Other: _____
 Electronic Deliv: Hazstite/Csv
 Equis
 Excel-NJCC
 Excel-Nytagm
 Excel-PAACII
 PDF
 Other: _____

FOR LAB USE ONLY

Batch#	Matrix Codes:			5) Matrix	6) Sample Date	Time	Composite (C)	Grab (G)	Sample Type	Check if Contingent	7) Analysis Request
	DW-Drinking Water	S-Soil	A-Air								
	GW-Ground Water	SL-Sludge	Ot-Other								
	WW-Waste Water	O-Oil									
Lab Sample#	4) Customer Sample ID										
	<u>TMW-3</u>			<u>W</u>	<u>7/16/07</u>	<u>1630</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	<u>Trip Blank</u>			<u>W</u>	<u>7/16/07</u>	<u>1630</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

8) # Of Bottles

MeOH	MeOH	HOCl	H2SO4	HNO3	Other
				<u>42</u>	

9) Methanol Bottle Numbers (if applicable)
 Comments

10) Relinquished By: [Signature]

Accepted By: _____ Date: _____
 Time: _____

Comments, Notes, Special Requirements, HAZARDS

11) Sampler: [Signature] Date: 7/16/07

Cooler Temp _____

Please note NUMBERED items, if not completed, your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Veritech/Division of Hampton-Clarke

175 US Hwy 46 West, Fairfield, New Jersey 07004

Ph: 800-426-9992, fax: 973-439-1458

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

Page 1 of 3**Customer Information**

1a) Customer: HDR
Address: White Plains, NY
1b) Email: CellFax@PH: 917-887-3670
1c) Send Invoice To: HDR White Plains
1d) Send Report To: Noelmi Sanfago

Project Information

2a) Project: SBAR
2b) Project Manager: Noelmi Sanfago
2c) Location (City/State): White Plains, NY
2d) Quote#/PO# (If Applicable):

3) Reporting Requirements (please circle)

Turnaround Time: 24-Hour (100%)
48-Hour (75%)
72-Hour (50%)
1-Week (25%)
10 Days (10%)
Standard
Other: _____

Report type: Data Sum:
Waste
Rec-N/IN/PA
CLP
Full/Cal-B
Cat-A
Other: _____

Electronic Deliv:
HazSite/Csv
Equis
Excel/NJCC
Excel-Nytagm
Excel-PAActII
PDF
Other: _____

Expedited TAT Not always available (Please check with lab!)

7) Analysis RequestCheck if Contingent

<====Check if Contingent

FOR LAB USE ONLY	Batch#	Lab Sample#	Customer Sample ID	Matrix Codes:			Sample Date	Sample Time	Composite (C)	Sample Type	Grab (G)	Methanol Bottle Numbers (if applicable)	Comments
				DW-Drinking Water	GW-Ground Water	WW-Waste Water							
			TMW-4 MS			W	7/17/07	1450	<input checked="" type="checkbox"/>	None			
			TMW-4 MSO			W	7/17/07	1450	<input checked="" type="checkbox"/>	None			
			TMW-4			W	7/17/07	1450	<input checked="" type="checkbox"/>	None			
			Trip - Black			W	7/17/07	1740	<input checked="" type="checkbox"/>	None			

10) Relinquished By:Sean Jung

Accepted By

Date

Time

Comments, Notes, Special Requirements, HAZARDS

Cooler Temp

11) Sampler: Sean Jung Date: 7/18/07Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of \$5/sample will be assessed for storage should sample not be analyzed

Veritech/Division of Hampton-Clarke

175 US Hwy. 46 West, Fairfield, New Jersey 07004

Ph: 800-426-9992 fax: 973-439-1458

CHAIN OF CUSTODY RECORD

Project# (Lab use only)

Page 2 of 3

1a) Customer: HDR
Address: White Plains
1b) Email: Fax/Ph: 917-887-3670
1c) Send Invoice To: HDR White Plains
1d) Send Report To: NOEMI Santiago

Customer Information

2a) Project: SBMT
2b) Project Manager: NOEMI Santiago
2c) Location (City/State): BROOKLYN, NY
2d) Quote#/PO# (If Applicable):

Project Information

3) Reporting Requirements (please circle)

Turnaround Time	Report type	Electronic Deliv
24-Hour (100%)	Data Sum	Hazsite/Csv
48-Hour (75%)	Waste	Equis
72-Hour (50%)	Red-NUNY/PA	Excel-NJCC
1-Week (25%)	CLP	Excel-NYtagm
10 Days (10%)	Full/Cat-B	Excel-PAActi
Standard	Cat-A	PDF
Other:	Other:	Other:

Expedited TAT Not always available (Please check with lab)

FOR LAB USE ONLY

7) Analysis Request

Batch#	Lab Sample#	Matrix Codes:	4) Customer Sample ID	5) Matrix		6) Sample Date	Sample Time	Sample Type	Check if Contingent	8) # Of Bottles	9) Methanol Bottle Numbers (if applicable)	Comments
				S-Soil	O-Oil							
		DW-Drinking Water GW-Ground Water WW-Waste Water										
			THW-4			7/17/07	1450	✓		2		
			THW-4 MS			7/17/07	1450	✓		1		
			THW-4 MSP			7/17	1450	✓		1		

Matrix Codes: S-Soil, SL-Studga, O-Oil, A-Air, OI-Other

Sample Type: Composite (C), Grab (g)

Check if Contingent: <====>

8) # Of Bottles: None, MeOH, Encore, NaOH, HCl, H2SO4, HNO3, Other

9) Methanol Bottle Numbers (if applicable)

Comments

10) Relinquished By: *Sam Dwyer*

Accepted By:

Date:

Time:

Comments, Notes, Special Requirements, HAZARDS

11) Sampler: *Sam Dwyer* **Date:** 7/17/07

Cooler Temp:

Please note NUMBERED items. If not completed your analytical work may be delayed. A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Veritech/Division of Hampton-Clarke

175 US Hwy 46 West, Fairfield, New Jersey 07004
PH: 800-426-9992 Fax: 973-439-1458



CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

Page 3 of 3

Customer Information

1a) Customer: HDR
Address: White Plains
1b) Email: g17-887-3670
1c) Send Invoices to: HDR - White Plains
1d) Send Report to: Noemi Santiago

Project Information

2a) Project: SBTAT
2b) Project Mgr: NOEMI SANTIAGO
2c) Project Location (City/State): BROOKLYN, NY
2d) Quote/PO # (If Applicable): _____

3) Reporting Requirements (Please Circle)

Turnaround Report Type Electronic Deliv.
24 Hours (100%) Data Summary Hazslite/CSV
48 Hours (75%) Waste EQUIS
72 Hours (50%) Red - NJ / NY / PA Excel - NJCC
1 Week (25%) CLIP Excel - NY TAGM
10 Days (10%) Full / Category B Excel - PA Act 2
Standard Category A PDF
Other: _____
Expedited TAT Not Always Available (Please Check with Lab!)

FOR LAB USE ONLY	Batch #	Check If Contingent		7) Analysis Request		8) # of Bottles		9a) Methanol Bottle Numbers (if Applicable)	9b) Comments											
		Sample Type	Matrix Codes	Grab (g)	Composite (g)	None	MEOH			ET	Core	NaOH	HCl	H2SO4	HNO3	Other				
				OTG (164)	PH Fresh pt	PH Chem (24)	RO water	MeB	755	CSOD (48)	TKW (5)	NO 2 FIBER	NO 2 FIBER	✓						

10) Relinquished by: [Signature] Accepted by: _____ Date: _____ Time: _____

Comments, Notes, Special Requirements, HAZARDS

11) Sampler: [Signature] Date: 7/17/07

Cooler Temperature: _____

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Veritech/Division of Hampton-Clarke

175 US Hwy 46 West, Fairfield, New Jersey 07004

Ph: 800-426-9992 Fax: 973-439-1458

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

Page 1 of 1

Customer Information

1a) Customer: HDR
 Address: 1600 Plains NY
 1b) Email/Call/Fax/Ph: 917-887-2670
 1c) Send Invoice To:
 1d) Send Report To: Abram Santiago

Project Information

2a) Project: SBIAT
 2b) Project Manager:
 2c) Location (City/State): Brooklyn, NY
 2d) Quote#/PO# (If Applicable):

3) Reporting Requirements (please circle)

Turnaround Time Report type Electronic Deliv
 * 24-Hour (100%) Data Sum
 * 48-Hour (75%) Waste
 * 72-Hour (50%) Rec-NJ/NY/PA
 * 1-Week (25%) CLP
 * 10 Days (10%) Full/Cat-B
 Standard Cat-A
 Other: PDF
 Other:

Expedited TAT Not always available (Please check with lab!)

7) Analysis Request

FOR LAB USE ONLY	Batch#	Lab Sample#	Customer Sample ID	Matrix	5) Matrix Codes:		6) Sample Date	Time	Sample Type	Grab (C)	Composite (C)	8) # Of Bottles					9) Methanol Bottle Numbers (If applicable)	Comments		
					S-Soil	O-Oil						MeOH	EnCore	HCl	H2SO4	HNO3			Other:	
			TNW-6	W	W	W	7/18/07	1300	V			None								
			TNW-6D	W	W	W	7/18/07	1300	V			None								
			TNW-8	W	W	W	7/18/07	1500	V			None								
			TF ip Blank	W	W	W	7/18/07		V			None								

10) Relinquished By:

Accepted By	Date	Time	Comments, Notes, Special Requirements, HAZARDS
<u>[Signature]</u>	<u>7/18/07</u>	<u>16:15</u>	

11) Sampler: [Signature] Date: 7/18/07
 Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be retrieved for any analysis

Cooler Temp