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EAST SIDE ACCESS PROJECT

SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION FINDINGS REPORT SUMMARY for PHASE 1A DESIGN PACKAGE No. CQ026 (100% SUBMITTAL) QUEENS OPEN-CUT EXCAVATION AT THE EXISTING BELLMOUTH

June 26, 2001

Prepared by PB/STV Joint Venture
Prepared for MTA East Side Access Project

Prepared by:	C. Vilardi
Reviewed by:	J. Butler

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SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION FINDINGS REPORT SUMMARY FOR THE PHASE 1A DESIGN PACKAGE NO. CQ026 (100% SUBMITTAL) QUEENS OPEN-CUT EXCAVATION AT THE EXISTING BELLMOUTH

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1.0 INTRODUCTION

The Metropolitan Transportation Authority/Long Island Rail Road (MTA/LIRR) has contracted the joint venture team of Parsons Brinckerhoff Quade & Douglas, Inc. and STV Incorporated (PB/STV) to provide tunnel engineering consulting services for the East Side Access (ESA) Project (the Project). The PB/STV team is known as the Tunnel Engineer (TE) of the Project. The TE is responsible for providing the conceptual design, preliminary and final design engineering, construction phase services (including pre-construction environmental assessments), and coordination services for the Project. The TE's work is conducted under the direction of the Program Management (PM) firm. Other Project consultants include the Systems Engineer (SE), involved with system design elements and the Environmental Consultant (EC), involved with the preparation of the Draft Environmental Impact Statement (DEIS) and Final Environmental Impact Statement (FEIS). The completed Project will provide direct LIRR service into Manhattan's Grand Central Terminal (GCT) and a new LIRR Sunnyside Station located in western Queens County, New York. Direct access to east midtown Manhattan will improve the regional mobility of Long Island and Queens County residents and commuters.

The TE has completed Project Phase I Preliminary Engineering Environmental Site Investigations (ESIs) within the Project's proposed right-of-ways (ROWs) and replacement rail yards. The ROWs are known as the Manhattan Alignment with GCT and the Queens Alignment with Sunnyside Yard, Existing Storage Yard, Harold Interlocking and Sunnyside Station. The replacement yards include Highbridge Yard, Fresh Pond Yard, and Blissville Yard. Locations of these yards are depicted in Figure 1. The results of the Phase I ESIs were issued in separate Findings Reports that recommended additional environmental investigations and indicated several items where additional environmental information was recommended to be obtained.

This Findings Report Summary (FRS) report provides a summary of the findings for the Supplemental ESI conducted as part of Contract No. CQ026 - Queens Open-Cut Excavation at the Existing Bellmouth area. This was one of nine environmental surveys for the Supplemental

ESI conducted within the Queens Alignment during Phase IA of the Project. The ESI was conducted according to the "Sampling and Analysis Plan for the Supplemental Environmental Site Investigation of the Queens Alignment (Phase 1A), Design Package Nos. CQ025, CQ026, and CQ028," (TE, 2001). The scope of work was specifically based on the findings of the ESI for Existing Storage Yard within the Queens Alignment during Phase I design and is in general accordance with the recommendations presented therein.

Contract No. CQ026 includes an open-cut excavation with support from the existing Bellmouth to the west side of Northern Boulevard-Manhattan Shaft, construction of perimeter slurry and sheet pile walls, and demolition of existing slurry walls at the existing 63rd Street Bellmouth bulkhead structure just west of Northern Boulevard. This contract will be at 100% design by the end of June 2001.

The footprint for the cut-and-cover construction begins at the Bellmouth, crosses under Northern Boulevard, and ends in the Existing Storage Yard at the TBM launch shaft. A site plan of the Bellmouth is presented in Figure 2. Excavation will be to bedrock except at the eastern edge. The excavation width will vary from 100 to 160 feet and the estimated amount of excavated soil is 300,000 bank CY (500,000 loose CY). The existing slurry wall will be demolished. The new structure will consist of a water-tight excavation/support wall system. There will be no groundwater management outside the excavation. The support walls will be constructed around the perimeter of excavation and extend beneath the existing IND subway under Northern Boulevard. This will serve as a continuous retaining structure, temporary excavation support, and groundwater cutoff during construction thus forming a "bathtub" structure. This type of system is preferred due to the presence of any contaminants within the project footprint as well as any potential contaminants outside of it. As such, large scale groundwater management outside of the excavation is not considered so as not to disturb the groundwater regime and contaminants.

Slurry support walls will be keyed into rock or penetrate into rock sufficiently to provide a groundwater cutoff. These will be grouted if areas of poor rock are encountered.

A jet-grout wall system will be installed only where the Bellmouth structure passes beneath Northern Boulevard and the existing New York City Transit IND Subway structure. The jet-grout system will cause minimal interference with the rail operations for the subway, and the use of multiple rows of columns drilled into the underlying bedrock will reduce the potential risk of leaks and windows through the jet-grout walls.

2.0 SCOPE OF WORK AND OBJECTIVES

The purpose of this Supplemental ESI is to provide the environmental input required to advance Contract CQ026 to 100% design. The Supplemental ESI will provide a baseline of soil and groundwater quality in the Bellmouth area and to confirm the presence/absence of any dissolved plumes in groundwater. The tasks included:

- Installation of monitoring wells.
- Collection and analysis of soil samples.
- Collection and analysis of groundwater samples.
- General field observations and measurements.

3.0 FINDINGS

3.1 Field Procedures

All field procedures were conducted in accordance with Project protocol described in the Sampling and Analysis Plan (SAP) (TE, 2001). This includes utility clearance, soil screening and sampling, well installation, well development, well gauging, and groundwater sampling. Any exceptions to this are based on limited field conditions and are described below. Soil and groundwater (well) sampling locations are presented in Figure 2.

Soil sampling was conducted in conjunction with TE's Geotechnical group. Soil samples were collected on March 15 and 16, 2001 (boring QB 305), March 21st (boring QB 302), and March 22nd (boring QB 304) at three deep (to bedrock) soil borings. TE's drilling subcontractor (Jersey Boring and Drilling, Inc.) completed utility clearances and hand-augered to a depth of 5 feet below grade (ft-bg) prior to the commencement of powered drilling. The hand augered sample comprised the first soil sample depth, immediately below any concrete, asphalt, road base, or ballast material. Boring advancement below the hand augered portion was done using drilling fluids and a rotary/driven casing method. Soil samples were also obtained in each hole at the soil-groundwater interface and just above the bedrock contact using split spoon samplers. Soil samples were collected and submitted for laboratory analysis by Target Compound List (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), TCL polychlorinated biphenyls (PCBs), and Toxicity Characteristic Leachate Procedure (TCLP) Metals. A total of nine soil samples (three per hole) were collected for analysis. The quality assurance/quality control (QA/QC) samples collected included one aqueous field blank for TCL VOCs and TCL SVOCs analyses and a daily trip blank for TCL VOCs analysis (except for the trip for 3/21/01 that was inadvertently left out). Five shallow soil samples were collected on June 13, 2001 for TCLP lead analysis. One composite sample was collected per location from 0 to 2 feet below grade utilizing a stainless-steel hand auger. The samples were collected in the vicinity of well QB304W.

TE's Environmental group screened recovered soil at the three depths for VOCs using a Photovac® photo-ionization detector (PID) and the presence of any staining, odors, product, and moisture were noted. TE's Geotechnical group logged the geologic characteristics of the soil for the entire borehole. Soils are classified according to the Unified Soil Classification System (USCS). Geologic logs are provided in Appendix A.

TE's Geotechnical group oversaw the installation of three deep (QB 302W, QB 304W, and QB 305W) and two shallow (QB 301W and QB 303W) wells. Well construction forms and a summary table are provided in Appendix B. The basic well construction consists of 2-inch diameter, schedule-40 PVC casing threaded to 2-inch diameter, ten feet of schedule-40 PVC screen with appropriately sized slotting, a continuous sand pack around the well screen, a 2-foot thick bentonite seal of above the sand pack, a concrete surface seal around the top of the well casing and a protective 8-inch diameter well box with an at-grade manhole cover in a concrete seal. Boring/well locations were surveyed for project grid coordinates and grade elevation on March 12, 2001.

All five wells were developed on March 28, 2001. Deep wells QB 304W and QB 305W were successfully developed using a submersible pump and turbidity and conductivity levels stabilized well. Deep well QB 302W did not develop sufficiently using a pump and so hand bailing was used. Shallow wells QB 301W and QB 303 W were developed using hand bailing since these wells have a very slow recovery rate (low-yielding). QB 301W was selected to be sampled for groundwater in place of QB 302W.

Wells QB 304W and QB 305W were sampled on April 9, 2001 and well QB 301W was sampled on April 10, 2001. The average depth to water is approximately 19 ft-bg and was found to range from 14.90 to 25.50 ft-bg. Groundwater flow is north-northwest towards the East River. Water quality parameters were measured before and after purging at these wells (pH, temperature, conductivity, dissolved oxygen, turbidity, and salinity). Field measurements are provided in Appendix C.

Samples were submitted to the laboratory for TCL VOCs, TCL SVOCs, and TAL Metals (total and filtered) analysis. Additional analytical parameters included: chloride, sulfate, magnesium carbonate, calcium carbonate, alkalinity, conductivity, and dissolved minerals. QA/QC samples included one aqueous field blank for TCL VOCs and TCL SVOCs analyses and a daily trip blank for TCL VOCs analysis (except the trip for 4/9/01 was inadvertently left out).

3.2 Soil

The soil analytical results are discussed in this section. Laboratory analytical reports for soil are presented in Appendix D. The primary soil cleanup values are from the Record of Decision (ROD) for Operable Unit (OU) 1 of Sunnyside Yard (NYSDEC, 1997). The primary soil cleanup values are applicable only to total PCBs, total carcinogenic polyaromatic hydrocarbons (PAHs) a type of SVOC, as per NYSDEC Technical Administrative Guidance Memorandum (TAGM) #4046, and total lead. The secondary soil cleanup values are the NYSDEC TAGM #4046 soil cleanup objectives for all other analytical parameters. The RCRA regulatory levels for hazardous waste disposal are used for comparison with the TCLP metals results.

3.2.1 TCL Volatile Organic Compounds

In the borehole for QB 305W, m,p-Xylene was detected at a concentration of 1,600 ppb at a depth of one-foot six-inches. This exceeds the secondary soil cleanup value of 1,200 ppb. Ethylbenzene was detected at a concentration of 310 ppb, and o-Xylene was detected at a concentration of 660 ppb at the same sampling depth. Both of these VOCs do not exceed the secondary soil cleanup values.

In the borehole for QB 304W, m,p-Xylene was detected at a concentration of 34 ppb and toluene was detected at a concentration of 23 ppb at a depth of two feet. Both of these VOCs do not exceed the secondary soil cleanup values.

TCL VOCs were not detected in any of the soil samples from QB 302W.

3.2.2 TCL Semi-Volatile Organic Compounds

In the borehole for QB 304W, fluoranthene was detected at a concentration of 340 ppb, phenanthrene was detected at a concentration of 280 ppb, and pyrene was detected at a concentration of 350 ppb at the depth interval of one to four feet. These concentrations do not exceed the primary or secondary soil cleanup levels.

TCL SVOCs were not detected in any of the soil samples from QB 302W or QB 305W.

3.2.3 TCLP Metals

In the borehole for QB 304W the concentration of TCLP lead was detected at a concentration of 6,800 ppb. This exceeds the RCRA regulatory level for hazardous waste disposal of 5000 ppb. Consequently, five shallow soil samples were collected in the vicinity of well QB304W to delineate the extent of TCLP lead in soil. TCLP lead was detected in sample TE-1A-B-5 at a concentration of 2,700 ppb. This concentration does not exceed the RCRA regulatory level. TCLP lead was not detected in the remaining four soil samples (TE-1A-B-1 to TE-1A-B-4).

TCLP Metals were not detected in the soil samples from boreholes for QB 302W and QB 305W.

3.2.4 TCL PCBs

TCL PCBs were not detected from the soil samples of the boreholes for QB 302W, QB 304W, and QB 305W.

3.3 Groundwater

The groundwater analytical results are discussed in this section. Laboratory analytical reports for groundwater are presented in Appendix E. The primary groundwater standards and guidance values are from NYSDEC Division of Water's Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Technical and Operational Guidance Series (TOGS) 1.1.1 (June 1998) and the April 2000 Addendum to this document.

3.3.1 TCL Volatile Organic Compounds

Chloroform and acetone were the only TCL VOCs detected in groundwater. Chloroform was detected in well QB 305W at a concentration of 9.9 ppb. This level exceeds the Class GA groundwater standard of 7 ppb for chloroform. Chloroform is a chlorofluorocarbon commonly used as refrigerant or in fire extinguishers.

Acetone was detected in well QB 301W at a concentration of 1,200 ppb. This detection level exceeds the Class GA groundwater standard of 50 ppb for acetone. Acetone was also detected in well QB 304W at a concentration of 50 ppb. Acetone is not of concern because it is a common laboratory artifact and it was not detected in the field blank for VOCs, which was obtained just after sampling this well.

TCL VOCs were not detected in well QB 304W.

3.3.2 TCL Semi-Volatile Organic Compounds

Pentachlorophenol and benzoic acid were the only TCL SVOCs detected. Pentachlorophenol was detected in well QB 301W at a concentration of 22 ppb and in well QB 305W at a concentration of 21 ppb. Both of these levels exceeds the Class GA groundwater standard of 1 ppb for total phenolic compounds. Pentachlorophenol is a common wood preservative.

Benzoic acid was detected in well QB 301W at a concentration of 500 ppb. There is no Class GA groundwater standard for this compound. Benzoic acid is a common food preservative.

3.3.3 Target Analyte List (TAL) Metals

Analytical results for twenty-three TAL metals are presented in Table 1. For each well, total and filtered metals are presented. Filtered metals results give an indication of the dissolved constituents in groundwater whereas the total metals represents the whole sample metal concentration (including dissolved, suspended, and adsorbed fractions). Note that there are no NYSDEC Class GA groundwater standards or guidance values for aluminum, calcium, cobalt, potassium, and vanadium. The best comparison of Class GA values is with the total metals results.

Sodium, calcium, and potassium were detected in total and filtered samples from all three wells. Sodium was detected above the Class GA standard. For calcium and potassium there are no Class GA standards or guidance values for comparison. Calcium is typically a major constituent in groundwater (5,000 ppb or greater) and potassium is typically a minor constituent in groundwater (10 to 10,000 ppb).

The following total metals exceeded the Class GA levels in well QB 301W: arsenic. iron, lead, manganese, nickel, and sodium. Nickel and sodium were the filtered metals which exceeded the Class GA levels in this well. It should be noted that since well QB 301W was a low yielding well, it was probably not developed sufficiently to clear remnant drilling materials.

In wells QB 304W and QB 305W there were many types of metals detected in the total as well as filtered samples. However, none of these metals exceed the NYSDEC Class GA standards or guidance values.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Soil

Based on the findings of this investigation, further investigation of the soil is not warranted. Although TCLP lead exceeded the RCRA regulatory level in only one out of six shallow soil samples near QB304W, appropriate soil management protocol is recommended during construction in this area. The recommended protocol is described in the Construction Contaminant Management Plan (CCMP).

4.2 Groundwater

Based on the findings of this investigation, further investigation of the groundwater is not warranted. However, certain Class GA exceedances warrant appropriate groundwater management controls during construction (such as groundwater monitoring during construction).

Chloroform (a VOC) in well QB 305W exceeds the Class GA GW Standards. Chloroform was detected in nearby well QB 106W in the Phase I ESI above the Class GA groundwater standards also.

Pentachlorophenol (a SVOC) in QB 301W and QB 305W exceeds Class GA GW standards for phenolic compounds. Phenol was detected in nearby well QB 106W in the Phase I ESI above Class GA groundwater standards also.

An inferred dissolved VOC/SVOC plume in groundwater for this area is depicted in Figure 2.

Due to the high mineral content (calcium, sodium, iron, manganese, potassium), the water is hard. This condition may be attributed to the nature of the artificial fill and somewhat to saltwater intrusion.

Total heavy metals detected above the Class GA groundwater standards or guidance values included arsenic, lead, and nickel. This occurred only in well QB 301W, the low yielding well that could not be developed. The filtered sample for QB 301W indicated that nickel was the only heavy metal still exceeding the groundwater standards. The filtered sample results indicate what is dissolved in water. When sediment is removed, the metal concentration levels were found to decrease and the variety of metals detected also decreased.

The recommended groundwater management protocol is described in the CCMP.

TABLES

Table 1

GROUNDWATER ANALYTICAL RESULTS FOR TAL METALS

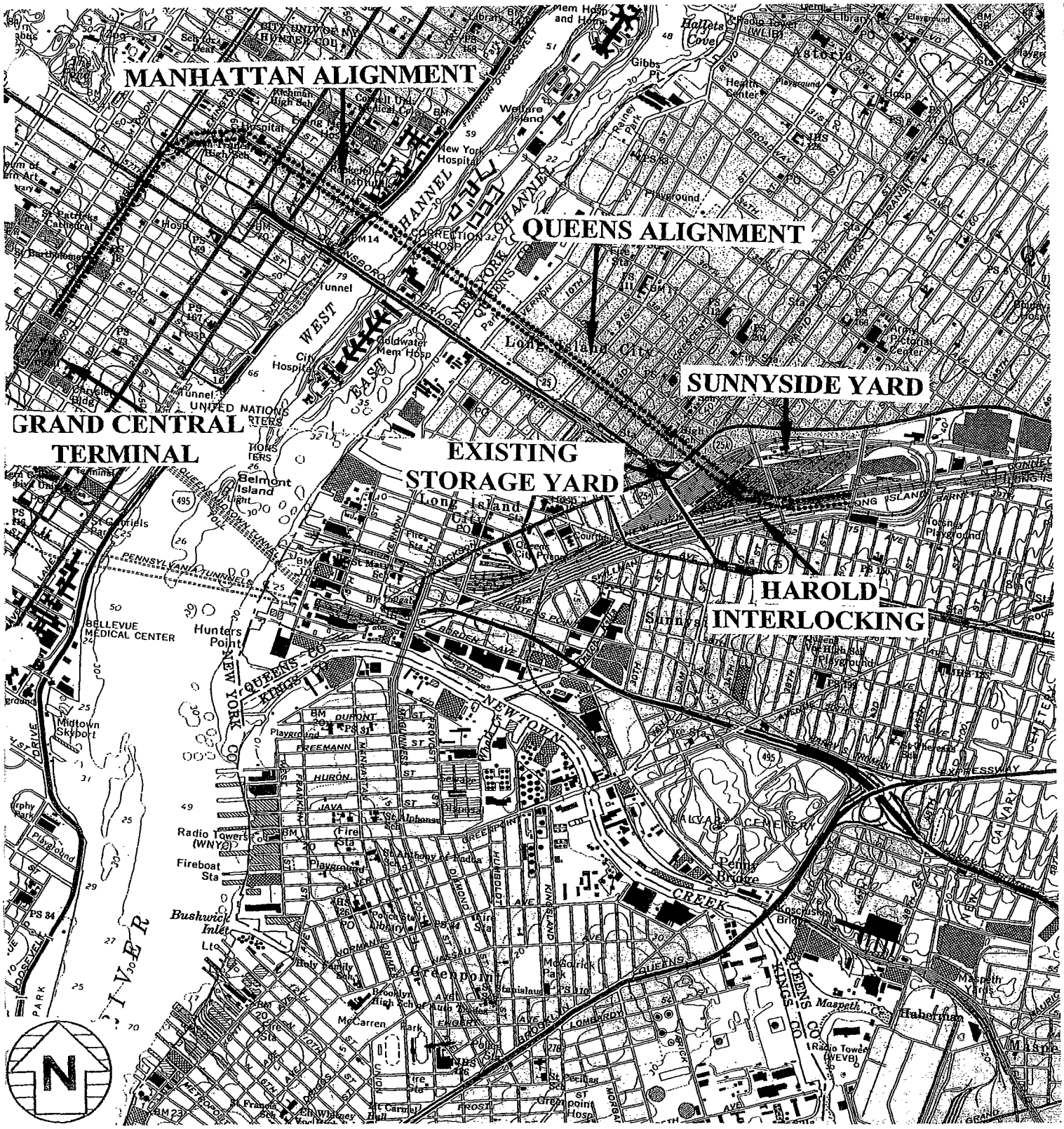
Bellmouth
PB/STV East Side Access Project
Sunnyside, Queens, NY

Well Identification Metals Analysis Laboratory Identification Sample Date		QB 301W Total 0104116-01C 4/10/2001	QB 301W Filtered 0104116-01D 4/10/2001	QB 304W Total 0104115-02C 4/9/2001	QB 304W Filtered 0104115-02D 4/9/2001	QB 305W Total 0104115-01C 4/9/2001	QB 305W Filtered 0104115-01D 4/9/2001
Compound	Groundwater Standard or Guidance Value* (ug/L)	Concentration (ppb) or (ug/L)					
Aluminum	NA	11,000	2000	540	ND	410	ND
Antimony	3.00	ND	ND	ND	ND	ND	ND
Arsenic	25.00	32	25	ND	ND	ND	ND
Barium	1,000.00	ND	ND	ND	ND	ND	ND
Beryllium	3*	ND	ND	ND	ND	ND	ND
Cadmium	5	ND	ND	ND	ND	ND	ND
Calcium	NA	290,000	240,000	100,000	65,000	45,000	39,000
Chromium	50	30	ND	ND	ND	ND	ND
Cobalt	NA	ND	ND	ND	ND	ND	ND
Copper	200	120	77	ND	ND	ND	ND
Iron	300	15,000	240	740	ND	ND	ND
Lead	25	270	10	9.1	ND	5.1	ND
Magnesium	35,000*	7,800	ND	4,000	ND	21,000	20,000
Manganese	300	350	ND	16	ND	69	39
Mercury	0.70	0.75	ND	ND	ND	ND	ND
Nickel	100	210	190	ND	ND	ND	ND
Potassium	NA	66,000	62,000	32,000	30,000	10,000	9,600
Selenium	10	ND	ND	ND	ND	ND	ND
Silver	50	ND	ND	ND	ND	ND	ND
Sodium	20000	170,000	170,000	34,000	28,000	47,000	45,000
Thallium	0.5*	ND	ND	ND	ND	ND	ND
Vanadium	NA	ND	ND	ND	ND	ND	ND
Zinc	2,000*	200	41	53	ND	ND	35

NOTES:

Samples analyzed for TAL Metals by EPA Method 6010
except Mercury analyzed by EPA Method 7470.
TAL is Target Analyte List
(Total): Denotes unfiltered groundwater sample.
(Dissolved): Denotes samples field filtered with 0.45 micron filter to obtain dissolved metals concentration.
NYSDEC GA Groundwater Quality Standards from T.O.G.S. 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,"June 1998.
Bold Values: Exceed groundwater standards.
ND or **U:** Analyte was not detected at method reporting limit.
NA: No standard applicable
B: Analyte result between IDL and contract required detection limit.
E: Reported value estimated due to the presence of interference.

FIGURES



USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES
BROOKLYN AND CENTRAL PARK QUADRANGLES
W YORK – NEW JERSEY
966 AND 1967, PHOTOREVISED 1979

AST SIDE ACCESS
ONG ISLAND RAIL ROAD
RAND CENTRAL CONNECTION

SITE LOCATION
QUEENS SEGMENT
LONG ISLAND CITY, QUEENS NY
EAST SIDE ACCESS PROJECT

Parsons Brinckerhoff Quade & Douglas, Inc. NY Incorporated

CONTRACT NO. 98-0040-01
DATE: 5/14/2001
SCALE: AS NOTED

FIGURE 1

40th ROAD

BLOCK 403
LOT 1

EXISTING JET GROUTED WALL (UNDER IND SUBWAY)

AOC #6
INFERRED EXTENT OF VOC's AND SVOC's IN GROUNDWATER

EXISTING SLURRY WALL (TYP)

EXISTING NYCT T1 AND T2 TUNNEL STRUCTURE

LIMIT OF EXISTING NYCT T1A CUT AND COVER TUNNEL

EXISTING BELLMOUTH STRUCTURE

TE-1A-B-4
TE-1A-B-5
TE-1A-B-3
TE-1A-B-2
TE-1A-B-1
QB-301w
QB-304w
QB-117w
QB-305w
QB-106w
QB-302w

℄ NYCT TRACK T1A
℄ NYCT YARD LEAD
℄ LIRR INBOUND LEAD
℄ LIRR TRACK A
℄ LIRR TRACK B/C
℄ LIRR TRACK D
℄ LIRR OUTBOUND LEAD

LIMIT OF EXISTING NYCT T2A CUT AND COVER TUNNEL

LIMIT OF EXISTING LIRR CUT AND COVER TUNNEL

LIMITS OF OPEN-CUT EXCAVATION

℄ FUTURE NYCT TRACK T2A (NOT IN ESA PROJECT)

EXISTING RAIL YARD

WB1 1167+00 WB1 1168+00 WB1 1169+00 WB1 1170+00 WB1 1171+00 WB1 1172+00 WB1 1173+00 A 1174+00 A 1175+00 A 1176+00 A 1177+00 A 1178+00

41ST AVENUE

28TH STREET

29TH STREET

41st AVENUE

NORTHERN BOULEVARD

41ST AVENUE

LEGEND
QB-# MONITORING WELL
TE-1A-# SOIL BORING

SCALE IN FEET
40' 20' 0 40' 80

$PRFNAMES
$(PLOT)
09-40-29 AM
06/21/01
26-ct-2001report.DGN
$REF'DS
w:\Cadd\CQ026\Vol

MTA Long Island Rail Road
East Side Access

PB STV
A JOINT VENTURE BETWEEN: PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC AND STV INCORPORATED

DATE: REVISIONS No.

DESIGNED BY: M. HAGERTY
DRAWN BY: M. HAGERTY
CHECKED BY: J. BUTLER
COORDINATED BY: J. SCHABIB
APPROVED BY: N. A. MUNFAH

PROFESSIONAL ENGINEER N.Y. LIC. No.
DATE:

FIGURE 2
ENVIRONMENTAL SITE PLAN

SCALE: AS SHOWN
DRAWING NUMBER: CQ026-CT-2001
DATE: 29-JUN-2001
REVISION NUMBER:

CONTRACT No. CQ026
ISSUE FINAL
SHEET No. — OF —

APPENDIX A

Table B-1

SUMMARY OF MONITORING WELL CONSTRUCTION DATA

BELLMOUTH
PB/STV East Side Access Project
Long Island City, NY

Well I.D. No.	Northing	Easting	Well Depth (ft-bg)	Depth to Rock (ft-bg)	Surface Elevation (Ft. PMSL)	Elevation Top of Casing* (Ft. PMSL)	Screened Interval		Date Installed
							(Ft-bg)	(Ft-PMSL)	
QB 106W	212655	1992007	65	72	324.8	326.0	55 - 65	271 - 261	3/16/2000
QB 117W	212607	1002298	70	74	316.5	316.4	60 - 70	258 - 248	12/22/1999
QB 301W	212830	1001964	39.5	NA	332.6	332.1	29.5 - 39.5	303.1 - 293.1	3/20/2001
QB 302W	212698	1001881	61.5	62.5	331.4	330.8	51.5 - 61.5	279.8 - 269.9	3/22/2001
QB 303W	212819	1002040	35	NA	328.2	327.7	25 - 35	303.2 - 293.2	3/20/2001
QB 304W	212719	1002119	79	75.5	323.5	323.4	69 - 79	254.5 - 244.5	3/28/2001
QB 305W	212647	1002054	77	82	325.1	325.0	67 - 77	258.1 - 248.1	3/22/2001

NOTES
PVC: Schedule 40 polyvinyl chloride piping
All well diameters are 2 inches
TEC: Tunnel Engineering Consultant
Ft. PMSL: Feet above Project Mean Sea Level elevation as determined by the National Geodetic Vertical Datum of 1929
Ft. BG: Feet below surface grade
* Top of casing not surveyed; this is an estimate based on depth to top fo casing from grade.

BORING LOG

BORING NUMBER: **QB-301w**
SHEET NUMBER: **1** of **2**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**
CONTRACTOR: **Jersey Boring**
DRILLER: **A. Feliciano, E. Carire**
INSPECTOR: **A. Benslimane**
DRILLING METHOD: **Rotary with mud and casing**
RIG TYPE: **CME75 - Truck Mounted Rig - Automatic Hammer**

LOCATION: **Bellmouth**
COORD. **N: 212,834.0** **E: 1,001,966.0**
STN. NO.: OFFSET:
SURFACE ELEV.: **332.6 feet**
DATUM: **300**
START DATE: **3/19/01** TIME: **10:00 am**
FINISH DATE: **3/20/01** TIME: **3:00 pm**

	Casing	Split Spoon	Shelby Tube	Piston	Grab	Core Barrel
Type/Symbol	HW	S ■	U ▯	P ▨	G ☒	C ▤
I.D.	4"	1.375"	2.938"	2.938"		
O.D.	4.5"	2"	3"	3"		
Length		24"	24"	24"		
Hammer Wt.	300 lbs	140 lbs	Drill Rod Size		NW	
Hammer Fall	24"	30"	I.D. (O.D.)		1.375" (2.625")	

GROUNDWATER DATA*

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)

*For additional readings, see QB-301w Well Installation Log.

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			G	1	☒	1.0 - 2.0												Hand augered from 0-6'. Dark brown, fine to medium SAND, trace Silt, trace fine to coarse Gravel, moist, micaceous. (SW-SM)(Fill)
			G	2	☒	3.0 - 4.0												*Same* as G-1.
5			S	1	■	6.0 - 8.0	4	7	8	20	8							Dark brown, fine to medium SAND, trace Silt, medium dense, moist, micaceous. (SW-SM)(Fill)
			S	2	■	8.0 - 10.0	15	18	15	15	0							No recovery.
10			S	3	■	10.0 - 12.0	12	19	32	45	8							Dark brown, fine to medium SAND, trace fine to coarse Gravel, trace Silt, trace brick fragments, dense, moist, micaceous. (SW-SM)(Fill)
15			S	4	■	15.0 - 17.0	12	21	17	27	13							Dark brown, fine to medium SAND, some Silt, little fine to medium Gravel, dense, moist, micaceous. (SM)(Fill)
20			S	5	■	20.0 - 22.0	17	26	24	29	15							Dark brown, fine to medium SAND, some Silt, little fine to medium Gravel, trace brick fragments, dense, moist. (SM)(Fill)
																		Rods chatter at 23', possible Cobbles or Gravel. Hard drilling from 23-25'.

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: **QB-301w**
SHEET NUMBER: **2** of **2**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**

CONTRACTOR: **Jersey Boring**
DRILLER: **A. Feliciano, E. Carire**
INSPECTOR: **A. Benslimane**

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			S	6		25.0 - 27.0	32	35	29	15	16							Dark brown, fine to medium SAND, little fine to coarse Gravel, little Silt, trace brick fragments, very dense, moist. (SM)(Fill)
30			S	7		30.0 - 32.0	20	24	24	72	18							Same as S-6, trace wood, dense, moist. (SM)(Fill)
35			S	8		35.0 - 37.0	25	32	33	28	17							Same as S-6, very dense, moist. (SM)(Fill)
40			S	9		40.0 - 42.0	6	10	11	10	13						42.0	Dark brown, fine to medium SAND, little Silt, little fine to coarse Gravel, medium dense, moist. (SM)(Fill)
																		End of boring at 42'. Observation well installed, see Observation Well Installation Log.
45																		
50																		
55																		

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG

BORING NUMBER: **QB-302w**
SHEET NUMBER: **1** of **3**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**
CONTRACTOR: **Jersey Boring**
DRILLER: **A. Feliciano, M. Carire**
INSPECTOR: **A. Benslimane**
DRILLING METHOD: **Rotary Wash with revert and casing**
RIG TYPE: **CME75 - Truck Mounted Rig - Automatic Hammer**

LOCATION: **Bellmouth**
COORD. **N: 212,703.0** **E: 1,001,877.0**
STN. NO.: OFFSET:
SURFACE ELEV.: **331.4 feet**
DATUM: **300**
START DATE: **3/21/01** TIME: **7:00 am**
FINISH DATE: **3/22/01** TIME: **10:00 am**

	Casing	Split Spoon	Shelby Tube	Piston	Grab	Core Barrel
Type/Symbol	HW	S ■	U ▯	P ▨	G ▩	C ▤
I.D.	4"	1.375"	2.938"	2.938"		2"
O.D.	4.5"	2"	3"	3"		3"
Length		24"	24"	24"		
Hammer Wt.	300 lbs	140 lbs	Drill Rod Size		NW	
Hammer Fall	24"	30"	I.D. (O.D.)		1.375" (2.625")	

GROUNDWATER DATA*

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)

*For additional readings, see QB-302w Well Installation Log.

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
																		Hand augered from 0-6'.
			G	1	▩	3.0 - 4.0												Light brown, fine to medium SAND, trace Silt, moist. (SP-SM)(Fill)
5			G	2	▩	5.0 - 6.0												Dark brown, fine to meidum SAND, little Silt, trace fine to medium Gravel, moist. (SM)(Fill)
			S	1	■	6.0 - 8.0	1	1	2	1	13							Reddish brown, fine to medium SAND, little Silt, loose, moist. (SM)(Fill)
			S	2	■	8.0 - 10.0	2	3	3	5	14							Light brown, fine to medium SAND, trace Silt, loose, moist. (SW-SM)(Fill)
10			S	3	■	10.0 - 12.0	4	4	5	7	20							Same as S-2, medium dense. (SW-SM)(Fill).
15			S	4	■	15.0 - 17.0	5	3	5	6	11							Dark brown, fine to medium SAND, little Silt, loose, moist, micaceous. (SM)
			S	5	■	18.0 - 20.0	4	4	5	5	14							Same as S-4.
20			S	6	■	20.0 - 22.0	4	3	6	9	10							Same as S-4.

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: **QB-302w**
SHEET NUMBER: **2** of **3**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**

CONTRACTOR: **Jersey Boring**
DRILLER: **A. Feliciano, M. Carire**
INSPECTOR: **A. Benslimane**

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			S	7		25.0 - 27.0	4	3	3	3	20							Brown, fine to medium SAND and SILT, loose, moist, micaceous. (ML)
30			S	8		30.0 - 32.0	6	8	13	13	20							Alternating seams of brown, fine to medium SAND, little Silt (1/8"), and reddish brown Silty CLAY, low plasticity, moist. (CL-ML)
35			S	9		35.0 - 37.0	5	8	10	15	22							Same as S-8, moist. (CL-ML)
40			S	10		40.0 - 42.0	4	6	10	13	20							Top 6" (S-10A) Same as S-8. Bottom 14" (S-10B) Brown, Clayey SILT, some fine to medium Sand, moist, micaceous. (CL-ML)
45			S	11		45.0 - 47.0	6	9	9	13	20							Top 14" (S-11A) Alternating seams of brown fine to medium Sand, trace Silt, moist, micaceous (1/8") and reddish brown Silty CLAY. (CL-ML) Bottom 6" (S-11B) Gray brown, fine to medium SAND and SILT, moist, micaceous. (ML)
50			S	12		50.0 - 52.0	13	16	17	21	11							Reddish brown, fine to medium SAND, little Silt, trace fine to meidum Gravel, dense, moist. (SM) Rods chatter from 52-55', possible Gravel. Very hard drilling at 56'.
55		8 8 9 8	C	1		56.0 - 61.0	60	14	23	5	8							1 piece of gray, fine to medium grained, slightly weathered, strong, slightly fractured BOULDER and Boulder fragments.

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: **QB-302w**
SHEET NUMBER: **3** of **3**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**

CONTRACTOR: **Jersey Boring**
DRILLER: **A. Feliciano, M. Carire**
INSPECTOR: **A. Benslimane**

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	FIELD CLASSIFICATION AND REMARKS
							CORING					
							RUN (in.)	REC. (in.)	REC. %	L>4" (in.)	RQD %	Depth Elev.
		9	S	13		61.0 - 61.2	100/2"				2	Gray subangular coarse GRAVEL, trace light brown clayey Sand, moist. (GP)
												62.5 Hard drilling, roller bit to 62.5'
												Started coring at 62.5', see coring log.
65												
70												
75												
80												
85												
90												

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

CORING LOG

BORING NUMBER: **QB-302w**
SHEET NUMBER: **1** of **1**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**
CONTRACTOR: **Jersey Boring**
DRILLER: **A. Feliciano, M. Carire**
INSPECTOR: **A. Benslimane**
DRILLING METHOD: **Diamond drilling with double core barrel**
RIG TYPE: **CME75 - Truck Mounted Rig - Automatic Hammer**

LOCATION: **Bellmouth**
COORD. **N: 212,703.0** **E: 1,001,877.0**
STN. NO.: OFFSET:
SURFACE ELEV.: **331.4 feet**
DATUM: **300**

START DATE: **3/21/01** TIME: **7:00 am**
FINISH DATE: **3/22/01** TIME: **10:00 am**

CORE BARREL DATA:
TYPE: NX
CORE SIZE: 2"
O.D.: 3"
I.D.: 2"
CASING SIZE: 4" (4.5")

NOTES:

GROUNDWATER DATA

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)

DEPTH (feet)	CORING RATE (ft/min)	CORE RUN NO. AND DEPTH (ft)	RECOVERY (in)	RECOVERY (%)	RQD (%)	DESCRIPTION AND REMARKS (Lithology, Structure, Weathering, Continuity, Strength, Color, Grain Size) * - Denotes discontinuity along foliation MB- Denotes mechanical break	WEATHERING	STRENGTH	DISCONTINUITY DATA ANGLE (deg)	Jr	Ja	DEPTH (feet)
	9					Gray, fine to medium grained Garnetic GNEISS, slightly weathered to unweathered, strong to very strong, sound, faintly foliated with milky white, coarse grained Quartz veins interlayered along foliations.	1-2	R4-R5	MB	-	-	63.2
	11								MB	-	-	63.4
65	13	C-2 62.5 - 67.5	58	97	97				10	1	1	64.5
	10								MB	-	-	64.9
	15								10	1	1	65.5
	7								MB	-	-	65.8
	7					Greenish gray, fine to medium grained GNEISS, slightly weathered to unweathered, strong, sound except slightly fractured from 67.5-68' and 71.9-72.5', foliated from 69.2-72.5', approximate dip angle 45-50°.	1-2	R4	MB	-	-	66.2
									MB	-	-	66.8
									MB	-	-	67
70	6	C-3 67.5 - 72.5	56	93	92				40	1	1	68
	7								MB	-	-	68.1
	7								45	1	1	69.2
									50	1	1	70.4
									MB	-	-	71
									45	1	1	71.9
	12					Gray, fine to medium grained Granitic GNEISS, slightly weathered to unweathered, strong, sound except slightly fractured from 77-77.5', Milky white, coarse grained Granitic layer from 73-74', unfoliated.	1-2	R4				
	8											
75	6	C-4 72.5 - 77.5	60	100	100				5	1.5	1	74.5
	5											
	5								MB	-	-	76.6
						End of boring at 77.5'. Observation well installed, see Observation Well Installation Log.			10	1.5	1	77
80												
85												

ESA CORING LOG DRAFT (QUEENS) QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG

BORING NUMBER: QB-303w
SHEET NUMBER: 1 of 2
PROJECT NUMBER: 26420C

PROJECT: East Side Access
LOCATION: Queens
CLIENT: MTA
CONTRACTOR: Jersey Boring
DRILLER: A. Feliciano, M. Carire
INSPECTOR: A. Benslimane
DRILLING METHOD: Rotary Wash with revert and casing
RIG TYPE: CME75 - Truck Mounted Rig - Automatic Hammer

LOCATION: Bellmouth
COORD. N: 212,823.0 E: 1,002,043.0
STN. NO.: OFFSET:
SURFACE ELEV.: 328.2 feet
DATUM: 300

START DATE: 3/20/01 TIME: 7:00 am
FINISH DATE: 3/20/01 TIME: 3:00 pm

	Casing	Split Spoon	Shelby Tube	Piston	Grab	Core Barrel
Type/Symbol	HW	S ■	U ▯	P ▨	G ☒	C ⊟
I.D.	4"	1.375"	2.938"	2.938"		
O.D.	4.5"	2"	3"	3"		
Length		24"	24"	24"		
Hammer Wt.	300 lbs	140 lbs	Drill Rod Size		NW	
Hammer Fall	24"	30"	I.D. (O.D.)		1.375" (2.625")	

GROUNDWATER DATA*

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)

*For additional readings, see QB-303w Well Installation Log.

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
																		Hand augered from 0-6'.
			G	1	☒	2.0 - 3.0												Dark brown, fine to medium SAND, little Silt, trace fine to coarse Gravel, moist, micaceous. (SM)(Fill)
5																		
			S	1	■	6.0 - 8.0	10	10	12	14	16							Light brown, fine to medium SAND, trace Silt, medium dense, moist, micaceous. (SW-SM)(Fill)
			S	2	■	8.0 - 10.0	7	6	5	6	20							Same as S-1.
10			S	3	■	10.0 - 12.0	4	6	10	13	8							Same as S-1.
15			S	4	■	15.0 - 17.0	9	8	5	8	12							Dark brown, fine to medium SAND, little fine to medium Gravel, trace Silt, medium dense, moist. (SW-SM)(Fill)
20			S	5	■	20.0 - 22.0	100	53	11	53	8							Gray, fine to coarse GRAVEL (subangular and angular) and dark brown fine to medium SAND, trace Silt, very dense, wet. (SW-GW)(Fill)

BORING LOG - QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: **QB-303w**
SHEET NUMBER: **2** of **2**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**

CONTRACTOR: **Jersey Boring**
DRILLER: **A. Feliciano, M. Carire**
INSPECTOR: **A. Benslimane**

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			S	6		25.0 - 27.0	6	5	6	5	6							Dark brown, fine to medium SAND, little Silt, little fine to medium Gravel, trace coarse Gravel, medium dense, moist. (SM)(Fill)
30			S	7		30.0 - 32.0	9	9	8	11	12							Brown, fine to medium SAND, trace Silt, medium dense, moist. (SW-SM)(Fill)
35			S	8		35.0 - 37.0	6	8	10	10	12							Brown, fine to medium SAND, little fine to medium Gravel, little Silt, medium dense, moist. (SM)(Fill)
40			S	9		40.0 - 42.0	6	11	7	6	10						42.0	Brown, fine to medium SAND, little fine to medium Gravel, trace Silt, medium dense, moist. (SW-SM)(Fill)
																		End of boring at 42'. Observation well installed, see Observation Well Installation Log.
45																		
50																		
55																		

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG

BORING NUMBER: **QB-304w**
SHEET NUMBER: **1** of **3**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**
CONTRACTOR: **Jersey Boring**
DRILLER: **M. Blejwas**
INSPECTOR: **J. Prada**
DRILLING METHOD: **Rotary Wash with casing, water and revert**
RIG TYPE: **CME75 - Automatic Hammer**

LOCATION: **Bellmouth**
COORD. **N: 212,723.0** **E: 1,002,116.0**
STN. NO.: OFFSET:
SURFACE ELEV.: **323.5 feet**
DATUM: **300**
START DATE: **3/23/01** TIME: **8:00 am**
FINISH DATE: **3/28/01** TIME: **12:30 pm**

	Casing	Split Spoon	Shelby Tube	Piston	Grab	Core Barrel
Type/Symbol	HW	S ■	U ▯	P ▨	G ▩	C ▤
I.D.	4"	1.375"	2.938"	2.938"		2"
O.D.	4.5"	2"	3"	3"		3"
Length		24"	24"	24"		
Hammer Wt.		140 lbs	Drill Rod Size		NWJ	
Hammer Fall		30"	I.D. (O.D.)		1.375" (2.625")	

GROUNDWATER DATA*

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)
3/26/01	8:15 am	16.1	52.0	72.0
3/27/01	7:30 am	17.0	75.5	90.5
3/28/01	7:30 am	18.0	52.0	90.5

*For additional readings, see QB-304w Well Installation Log.

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			G	1	▩	2.0 - 3.0												From 0-8" Concrete. From 8"-6' Brown, fine to medium SAND, little fine to coarse Gravel, trace Silt, concrete and brick fragments. (SW)(Fill)
5			S	1	■	6.0 - 8.0	4	4	5	5	1							1 piece of coarse Gravel stuck in shoe.
			S	2	■	8.0 - 10.0	6	4	5	5	16							Reddish brown, fine to medium SAND, trace Silt, loose, moist, micaceous. (SW)(Fill)
10			S	3	■	10.0 - 12.0	4	4	5	5	17							Same as S-2.
																		Same as S-2.
15			S	4	■	14.0 - 16.0	2	2	3	3	8							
			S	5	■	16.0 - 18.0	2	4	5	5	8							Same as S-2.
20			S	6	■	20.0 - 22.0	2	2	3	2	10							Brown, fine to coarse SAND, trace Silt, loose, wet, micaceous. (SW-SM)(Fill)

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: QB-304w
SHEET NUMBER: 2 of 3
PROJECT NUMBER: 26420C

PROJECT: East Side Access
LOCATION: Queens
CLIENT: MTA

CONTRACTOR: Jersey Boring
DRILLER: M. Blejwas
INSPECTOR: J. Prada

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			S	7		25.0 - 27.0	2	4	4	4	8							Brown, fine to medium SAND, trace Silt, loose, wet, micaceous. (SW-SM)
30			S	8		30.0 - 32.0	3	3	5	5	9							Gray, fine to coarse SAND, trace Silt, loose, wet, micaceous. (SW-SM)
35			S	9		35.0 - 37.0	3	4	5	5	14							Gray, fine to medium SAND, little Silt, loose, wet, micaceous. (SM)
40			S	10		40.0 - 42.0	7	8	7	12	17							Brown SILT and fine to coarse SAND, varved in some regions, wet, micaceous. (ML)
45			S	11		45.0 - 47.0	23	58	28	24	16							Top 12" (S-11A) Brown, fine to coarse SAND, some Silt, little fine to coarse gray white Gravel (subround, subangular), very dense, wet. (SM) Bottom 4" (S-11B) Gray brown, SILT, trace fine to medium Sand, very stiff, wet. (ML)
50			S	12		50.0 - 52.0	24	25	20	17	8							Gray brown, fine to coarse SAND, some Silt, 1 piece coarse Gravel (round), trace fine Gravel, very dense, wet. (SM)
55		9 9 8	C	1		53.5 - 56.5	36	33	92	28	78							At 53', hard drilling. Advanced 6" with roller bit. Top 2" Gray green fine grained basalt Cobble. Next 2" Red, gray, white fine to coarse grained Granite Cobble. Bottom 29" gray fine to coarse grained Gneiss BOULDER, unweathered, very strong, sound.
			S	13		56.5 - 58.5	9	14	14	100/5"	14							Gray, fine to coarse SAND and SILT, little white gray fine to medium Gravel (round, subangular), medium dense, wet. (SM/ML)

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: **QB-304w**
SHEET NUMBER: **3** of **3**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**

CONTRACTOR: **Jersey Boring**
DRILLER: **M. Blejwas**
INSPECTOR: **J. Prada**

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			S	14		60.0 - 60.0	50/0"				0							Hard drilling. Advanced with roller bit to 60.7'.
			S	15		61.0 - 63.0	10	11	13	15	6							Brown gray Clayey SILT, some fine to coarse Sand, little gray red fine to medium Gravel (subround, subangular), occasional varving, medium dense, wet. (ML)
65			S	16		65.0 - 67.0	7	6	8	13	15							Gray brown SILT and fine SAND, trace fine Gravel, stiff, wet. (ML/SM)
70			S	17		70.0 - 72.0	29	20	18	19	14							Brown, fine to coarse SAND, some Silt, some gray, red, white fine to coarse Gravel (round, angular), dense, wet. (SM)
75																	75.5	Hard drilling at 75', advanced to 75.5'. Started coring at 75.5', see coring log.
80																		
85																		
90																		

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

CORING LOG

BORING NUMBER: **QB-304w**
SHEET NUMBER: **1** of **1**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**
CONTRACTOR: **Jersey Boring**
DRILLER: **M. Blejwas**
INSPECTOR: **J. Prada**
DRILLING METHOD: **Diamond drilling with double core barrel**
RIG TYPE: **CME75 - Automatic Hammer**

LOCATION: **Bellmouth**
COORD. **N: 212,723.0** **E: 1,002,116.0**
STN. NO.: OFFSET:
SURFACE ELEV.: **323.5 feet**
DATUM: **300**
START DATE: **3/23/01** TIME: **8:00 am**
FINISH DATE: **3/28/01** TIME: **12:30 pm**

CORE BARREL DATA:
TYPE: NX
CORE SIZE: 2"
O.D.: 3"
I.D.: 2"
CASING SIZE: 4" (4.5")

NOTES:

GROUNDWATER DATA

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)
3/26/01	8:15 am	16.1	52.0	72.0
3/27/01	7:30 am	17.0	75.5	90.5
3/28/01	7:30 am	18.0	52.0	90.5

DEPTH (feet)	CORING RATE (ft/min)	CORE RUN NO. AND DEPTH (ft)	RECOVERY (in)	RECOVERY (%)	RQD (%)	DESCRIPTION AND REMARKS (Lithology, Structure, Weathering, Continuity, Strength, Color, Grain Size) * - Denotes discontinuity along foliation MB- Denotes mechanical break	WEATHERING	STRENGTH	DISCONTINUITY DATA ANGLE (deg)	Jr	Ja	DEPTH (feet)
	5					Gray, fine to coarse grained GNEISS with Garnet crystals, unweathered, strong to very strong, sound. From 75.5-76.4', fracture at 80° with Sand and Clay coating. Quartz seam from 79.2-79.7'. Unfoliated from 75.5-80'. Slight foliation at 30° from 80-80.5'. Healed vein at 80° (1/8" thick) from 78-79'.	1	R4-R5	80	1.5	3	75.9
	4.5											
	5	C-2 75.5 - 80.5	59	98	98							
	5											
80	6											
	6					Same as C-2, sound except slightly fractured from 85-85.4'. Slight foliation 60-80°. Quartz seams throughout.	1	R4-R5	20	3	2	80.5
	7											
	7	C-3 80.5 - 85.5	59	98	98							
	7											
85	7								20	3	2	85
	12					Same as C-3, sound. Slight foliation 60-90°. Quartz seams throughout. High angle fracture from 90-90.4'.	1	R4-R5	0_{MB}	-	-	85.5
	8								60_{MB}	-	-	86.2
	6.5	C-4 85.5 - 90.5	59	98	98							
	7											
90	7											
						End of boring at 90.5'. Observation well installed, see Observation Well Installation Log.			80	3	2	90.2
									40	3	2	90.4
95												
100												

ESA CORING LOG DRAFT (QUEENS) QB GPJ PB_NYC.GDT 5/21/01

BORING LOG

BORING NUMBER: **QB-305w**
SHEET NUMBER: **1** of **3**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**
CONTRACTOR: **Jersey Boring**
DRILLER: **M. Blejwas**
INSPECTOR: **J. Prada**
DRILLING METHOD: **Rotary Wash with casing, water and revert**
RIG TYPE: **CME75 - Automatic Hammer**

LOCATION: **NYCT Lot**
COORD. **N: 212,647.0** **E: 1,002,054.0**
STN. NO.: OFFSET:
SURFACE ELEV.: **325.1 feet**
DATUM: **300**
START DATE: **3/15/01** TIME: **11:20 am**
FINISH DATE: **3/22/01** TIME: **12:00 pm**

	Casing	Split Spoon	Shelby Tube	Piston	Grab	Core Barrel
Type/Symbol	HW	S ■	U ▯	P ▨	G ⊠	C ⊟
I.D.	4"	1.375"	2.938"	2.938"		2"
O.D.	4.5"	2"	3"	3"		3"
Length		24"	24"	24"		
Hammer Wt.		140 lbs	Drill Rod Size		NWJ	
Hammer Fall		30"	I.D. (O.D.)		1.375" (2.625")	

GROUNDWATER DATA*

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)
3/16/01	7:40 am	16.8	37.0	42.0
3/19/01	7:00 am	16.8	37.0	72.0
3/20/01	9:15 am	16.7	82.0	96.0
3/21/01	7:25 am	16.9	82.0	96.0

*For additional readings, see QB-305w Well Installation Log.

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			G	1		1.0 - 6.0												From 0-6" Asphalt pavement. From 6"-6' Hand augered. From 6"-1' Black, fine to coarse SAND, little Silt, little fine to coarse Gravel, concrete fragments. From 1-6' Brown, fine to medium SAND, trace Silt, micaceous. (SW-SM)(Fill)
5			S	1		6.0 - 8.0	2	2	2	2	18							Brown, fine to medium SAND, trace Silt, very loose, moist, micaceous. (SW-SM)(Fill)
			S	2		8.0 - 10.0	2	2	3	2	18							Same as S-1, loose, moist. (SW-SM)(Fill)
10			S	3		10.0 - 12.0	2	2	3	3	20							Brown, fine to coarse SAND, trace Silt, loose, moist, micaceous. (SW-SM)(Fill)
15			S	4		15.0 - 17.0	2	2	5	4	12							Same as S-3, loose, moist. (SW-SM)(Fill)
			S	5		18.0 - 20.0	1	2	3	3	10							Same as S-3, very loose, wet. (SW-SM)(Fill)
20			S	6		20.0 - 22.0	3	4	5	7	20							Same as S-3, loose, wet. (SW-SM)(Fill)

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: **QB-305w**
SHEET NUMBER: **2** of **3**
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**

CONTRACTOR: **Jersey Boring**
DRILLER: **M. Blejwas**
INSPECTOR: **J. Prada**

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			S	7		25.0 - 27.0	1	2	4	5	13							Brown gray, fine to medium SAND, trace Silt, loose, wet, micaceous. (SW)
30			S	8		30.0 - 32.0	4	6	8	9	15							Brown gray, fine to medium SAND, trace Silt, medium dense, wet, micaceous. (SW-SM)
35			S	9		35.0 - 37.0	4	6	10	9	14							Top 8" (S-9A) Same as S-8. Bottom 6" (S-9B) Light brown, fine to medium SAND, little Silt (seams), medium dense, wet, micaceous. (SM)
40			S	10		40.0 - 42.0	4	5	5	8	16							Light brown gray, fine to medium SAND and SILT, varved, medium dense, wet, micaceous. (ML)
45																		Hard drilling from 45-46', Boulder
			S	11		46.0 - 48.0	9	10	9	9	17							Gray brown, fine to coarse SAND, some Silt, little gray red fine to medium Gravel (subangular, subround), medium dense, wet. (SM)
50			S	12		50.0 - 52.0	4	18	12	13	22							Gray Clayey SILT and fine SAND, trace fine Gravel, gray brown seams, very stiff, wet. (ML)
55			S	13		55.0 - 57.0	18	16	16	20	3							Gray Clayey SILT and fine to coarse SAND, trace fine to medium Gravel (angular, subround), hard, wet, micaceous. (ML)

BORING LOG DRAFT QB.GPJ PB_NYC.GDT 6/21/01

BORING LOG
(continued)

BORING NUMBER: **QB-305w**
SHEET NUMBER: 3 of 3
PROJECT NUMBER: **26420C**

PROJECT: **East Side Access**
LOCATION: **Queens**
CLIENT: **MTA**

CONTRACTOR: **Jersey Boring**
DRILLER: **M. Blejwas**
INSPECTOR: **J. Prada**

DEPTH (feet)	GRAPHIC LOG	CASING (Blows/ft) CORING (Min./ft)	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE SYMBOL	SAMPLE DEPTH (feet)	SOIL (Blows/6 in.) 0/6	6/12	12/18	18/24	REC. (in.)	CORING RUN (in.)	CORING REC. (in.)	CORING REC. %	CORING L>4" (in.)	CORING RQD %	Depth Elev.	FIELD CLASSIFICATION AND REMARKS
			S	14		60.0 - 62.0	10	14	13	14	6							Gray brown SILT and fine to coarse SAND, little fine to medium Gravel (subangular, subround), 1 piece coarse Gravel, medium dense, wet. (ML/SM)
65			S	15		65.0 - 67.0	58	100/5"			5							Brown, fine to coarse SAND and gray fine to coarse GRAVEL (angular), some brown Silt, very dense, wet. (SM/GM)
70			S	16		70.0 - 72.0	32	35	31	100/4"	15							Gray, fine to coarse SAND, some Silt, little gray white fine to medium Gravel (subround, subangular), very dense, wet. (SM)
		9.5 4																Hard drilling at 72'.
75		4	C	1		72.5 - 77.5	60	24	40	12	20							All recovery Cobbles and Boulders, unweathered to slightly weathered, strong. Top 13" Gray DIABASE Boulder. Next 4" Gray GNEISS Cobble. Bottom 5" Light gray SILTSTONE Cobble.
		4 5 2																Still hard drilling at 77.5'. Drop barrel again. Broke through at 79.5'.
		2	C	2		77.5 - 79.5	24	0	0	0	0							
80			S	17		79.5 - 81.5	24	23	100/4"		5							Gray, fine to coarse SAND, little Silt, little gray white fine to medium Gravel (subangular, subround), very dense, wet. (SM)
																	82.0	Started coring at 82', see coring log.
85																		
90																		

CORING LOG

BORING NUMBER: QB-305w
SHEET NUMBER: 1 of 1
PROJECT NUMBER: 26420C

PROJECT: East Side Access
LOCATION: Queens
CLIENT: MTA
CONTRACTOR: Jersey Boring
DRILLER: M. Blejwas
INSPECTOR: J. Prada
DRILLING METHOD: Diamond drilling with double core barrel
RIG TYPE: CME75 - Automatic Hammer

LOCATION: NYCT Lot
COORD. N: 212,647.0 E: 1,002,054.0
STN. NO.: OFFSET:
SURFACE ELEV.: 325.1 feet
DATUM: 300

START DATE: 3/15/01 TIME: 11:20 am
FINISH DATE: 3/22/01 TIME: 12:00 pm

CORE BARREL DATA:	NOTES:
TYPE: NX	
CORE SIZE: 2"	
O.D.: 3"	
I.D.: 2"	
CASING SIZE: 4" (4.5")	

GROUNDWATER DATA

Date	Time	Water Depth (ft)	Casing Depth (ft)	Hole Depth (ft)
3/16/01	7:40 am	16.8	37.0	42.0
3/19/01	7:00 am	16.8	37.0	72.0
3/20/01	9:15 am	16.7	82.0	96.0
3/21/01	7:25 am	16.9	82.0	96.0

DEPTH (feet)	CORING RATE (ft/min)	CORE RUN NO. AND DEPTH (ft)	RECOVERY (in)	RECOVERY (%)	RQD (%)	DESCRIPTION AND REMARKS (Lithology, Structure, Weathering, Continuity, Strength, Color, Grain Size) * - Denotes discontinuity along foliation MB- Denotes mechanical break	WEATHERING	STRENGTH	DISCONTINUITY DATA: ANGLE (deg)	Jr	Ja	DEPTH (feet)
85	6	C-3 82.0 - 87.0	54	90	77	Gray, fine to coarse grained GNEISS with Garnet presence, unweathered, strong, sound except extremely fractured from 83.8-83.9', moderately fractured from 83.9-84.1' and 84.8-85.2'.	1	R4	0	1	1	82
	5								5	3	2	82.8
	6					Foliation 70-75° from 82-85.1'.			35	3	2	83.8
	7					Foliation 60-70° from 85.1-86.6'.			30	3	2	83.9
	7					Healed vein from 83.8-84.1'.			50	3	3	84.05
									20	3	2	84.1
									50	3	2	84.8
90	6	C-4 87.0 - 91.0	41	85	54	Blocked up after 4', picked up 6" of C-3, not included in Recovery and RQD.	2	R4	*65	3	2	85.1
	5					Gray, fine to coarse grained GNEISS with Garnet presence, slightly weathered except moderately to slightly weathered from 88.6-89.1', strong, slightly fractured except extremely fractured to moderately fractured from 88.6-89.6', sound from 89.6-90.4'.			35	3	2	86.6
	5								*55	3	1	87.2
	5								*55	1.5	3	87.6
									45	1.5	2	88
									5	3	6	88.6
									5	1.5	3	88.7
95	6	C-5 91.0 - 96.0	60	100	100	Slickensided joint at 87.6'.	1	R4-R5	30	3	3	88.8
	9					Foliation at 50-60°.			25	3	2	88.9
	6.5					Gray, fine to coarse grained GNEISS, unweathered, strong to very strong.			*50	3	2	89.05
	9					Undulating Quartz veins from 91.6-92.8' and 94.5-94.7'.			*50	3	2	89.1
									5	3	2	89.4
						Foliation at 45° from 91-91.6'.			*50	1.5	2	89.6
						Foliation at 50° from 92.8-94.5'.			5	3	2	90.4
						Foliation at 90° from 94.7-96'.			5	3	2	90.5
						End of boring at 96'.			40	3	1	91
						Observation well installed, see Observation Well Installation Log.			30	3	1	92.1
									30	3	1	94.5
									0_{MB}	-	-	96
100												
105												

ESA CORING LOG DRAFT (QUEENS) QB.GPJ PB_NYC.GDT 6/21/01

APPENDIX B

EAST SIDE ACCESS PROJECT

OBSERVATION WELL INSTALLATION LOG

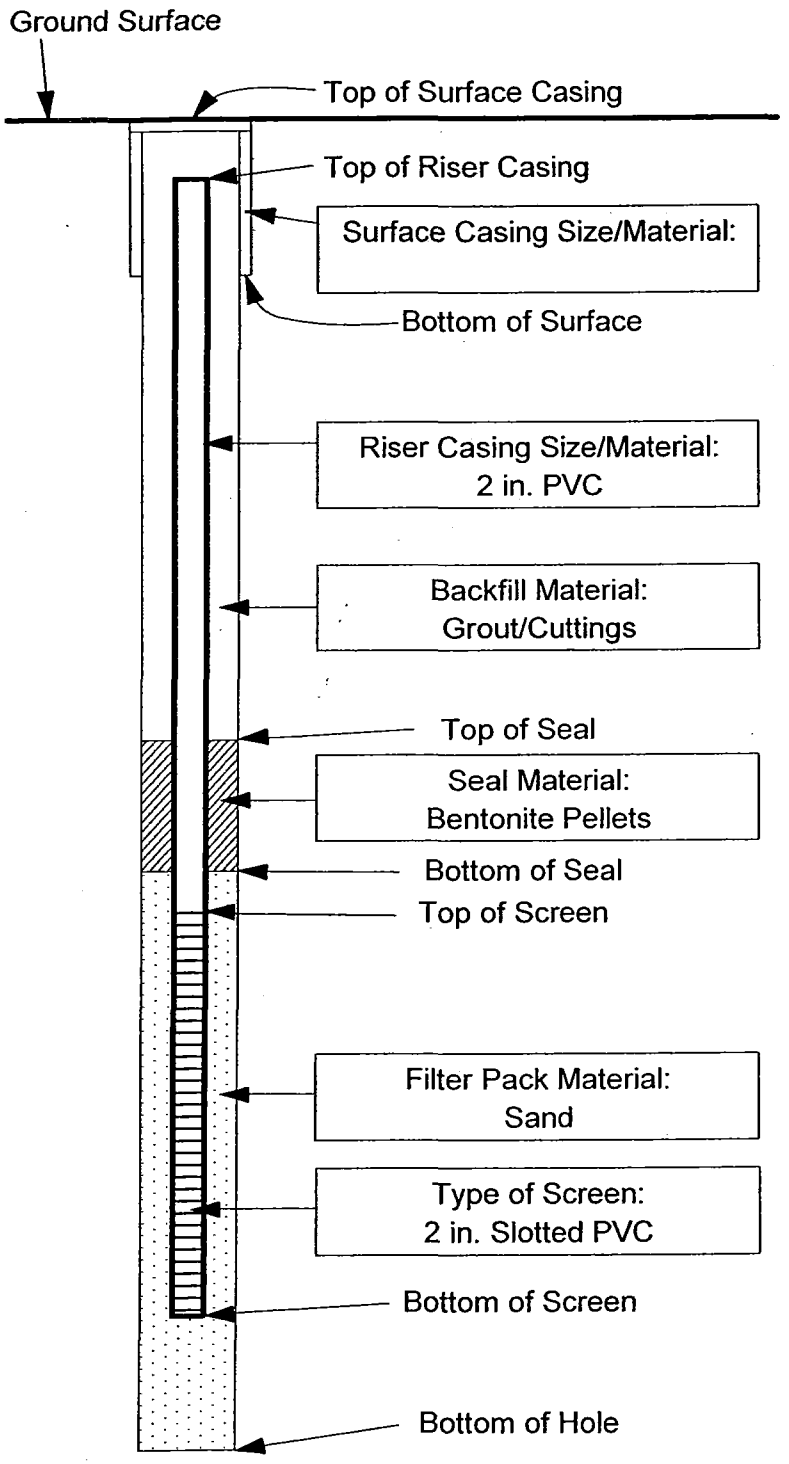
WELL NUMBER: QB-301w

Contractor: Jersey Boring

Driller: A. Feliciano

Inspector: A. Benslimane

LOCATION: Bellmouth, Queens



	Depth (ft)	Elev. (ft)	Water Level Elevations (ft)
Top of Surface Casing	0	332.6	3/20/01 - 322.8'
	0	332.6	3/21/01 - 310.6'
Top of Riser Casing	6 in.		3/22/01 - 308.8'
			4/2/01 - 306.9'
			5/16/01 - 308.0'
Bottom of Surface	12 in.		
Top of Seal	25.5	307.1	
Bottom of Seal	28.5	304.1	
Top of Screen	29.5	303.1	
Bottom of Screen	39.5	293.1	
Bottom of Hole	42	290.6	

Note:

OBSERVATION WELL QB.GPJ PB_NYC.GDT 6/21/01

EAST SIDE ACCESS PROJECT

OBSERVATION WELL INSTALLATION LOG

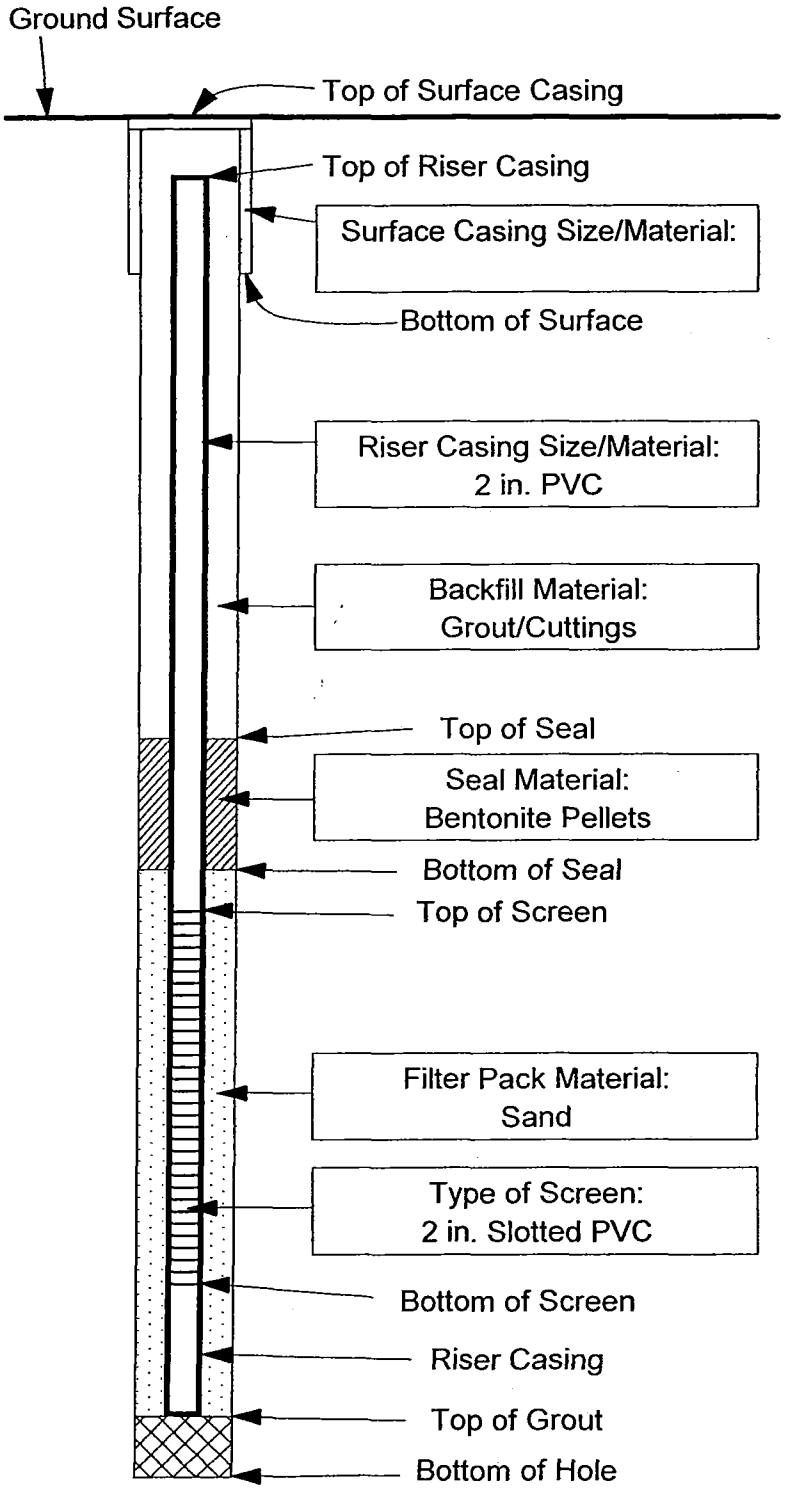
WELL NUMBER: QB-302w

Contractor: Jersey Boring

Driller: A. Feliciano

Inspector: A. Benslimane

LOCATION: Bellmouth, Queens



	Depth (ft)	Elev. (ft)	Water Level Elevations (ft)
Top of Surface Casing	0	331.4	3/22/01 - 314.1'
	0	331.4	4/2/01 - 308.7'
Top of Riser Casing	7 in.		5/16/01 - 308.6'
Bottom of Surface	12 in.		
Top of Seal	47.5	283.9	
Bottom of Seal	50.5	280.9	
Top of Screen	51.5	279.9	
Bottom of Screen	61.5	269.9	
Top of Grout	63	268.4	
Bottom of Hole	77.5	253.9	

Note:

OBSERVATION WELL TYPE 3 QB.GPJ PB_NYC.GDT 6/21/01

EAST SIDE ACCESS PROJECT

OBSERVATION WELL INSTALLATION LOG

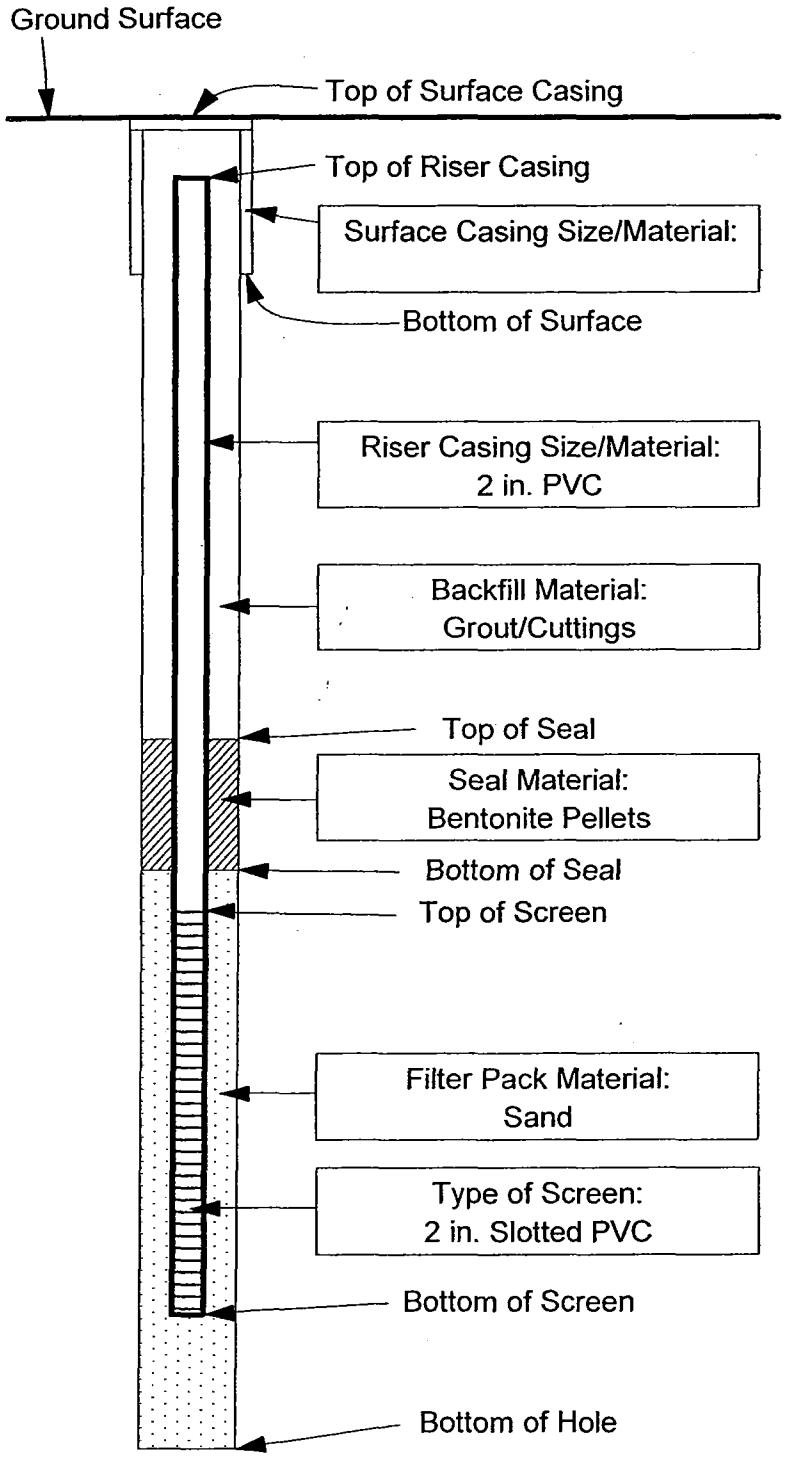
WELL NUMBER: QB-303w

Contractor: Jersey Boring

Driller: A. Feliciano

Inspector: A. Benslimane

LOCATION: Bellmouth, Queens



	Depth (ft)	Elev. (ft)	Water Level Elevations (ft)
Top of Surface Casing	0	328.2	3/21/01 - 307.7'
	0	328.2	3/22/01 - 307.7'
Top of Riser Casing	6 in.		4/2/01 - 307.6'
			5/16/01 - 308.2'
Bottom of Surface	12 in.		
Top of Seal	21	307.2	
Bottom of Seal	24	304.2	
Top of Screen	25	303.2	
Bottom of Screen	35	293.2	
Bottom of Hole	42	286.2	

Note: Flush mount cap installed.

OBSERVATION WELL QB.GPJ PB_NYC.GDT 6/21/01

EAST SIDE ACCESS PROJECT

OBSERVATION WELL INSTALLATION LOG

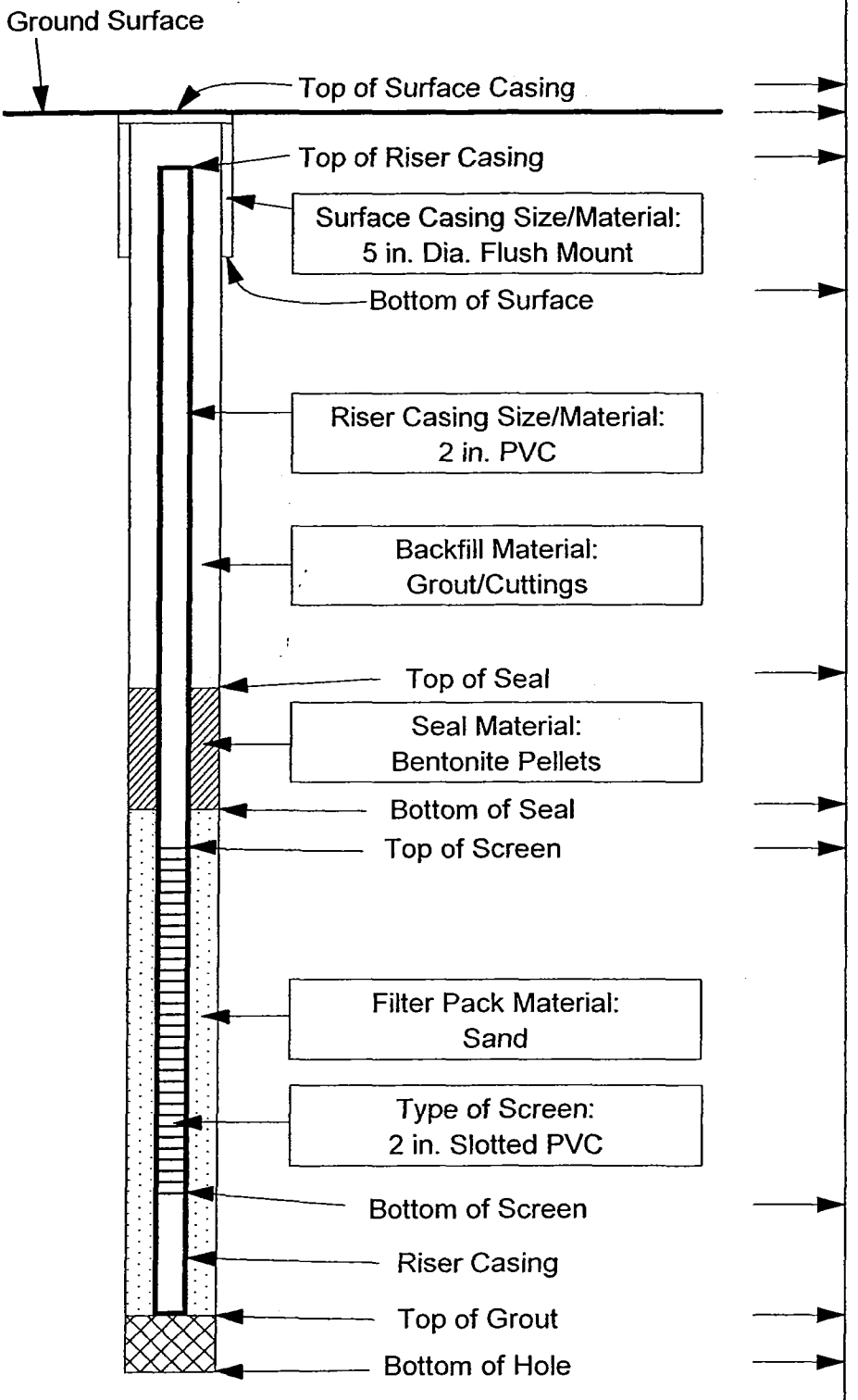
WELL NUMBER: QB-304w

Contractor: Jersey Boring

Driller: M. Blejwas

Inspector: J. Prada

LOCATION: Bellmouth, Queens



	Depth (ft)	Elev. (ft)	Water Level Elevations (ft)
Top of Surface Casing	0	323.5	3/26/01 - 307.4'
Bottom of Surface	0	323.5	3/27/01 - 306.5'
Top of Riser Casing	2 in.		3/28/01 - 305.5'
			4/2/01 - 308.5'
			5/16/01 - 308.3'
Top of Seal	65	258.5	
Bottom of Seal	67	256.5	
Top of Screen	69	254.5	
Bottom of Screen	79	244.5	
Top of Grout	80	243.5	
Bottom of Hole	90.5	233	

Note:

OBSERVATION WELL TYPE 3 QB.GPJ PB_NYC.GDT 6/21/01

EAST SIDE ACCESS PROJECT

OBSERVATION WELL INSTALLATION LOG

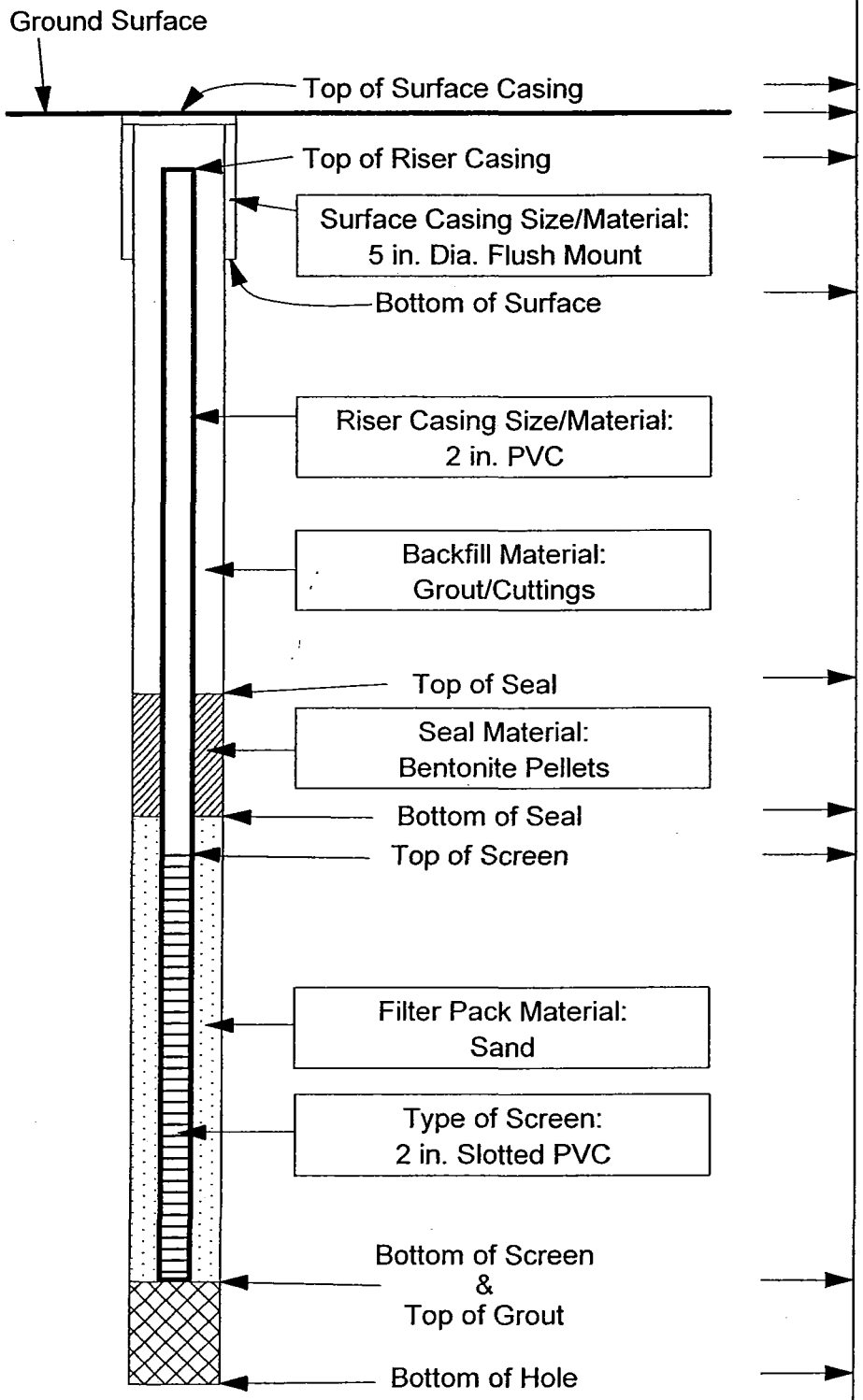
WELL NUMBER: QB-305w

Contractor: Jersey Boring

Driller: M. Blejwas

Inspector: J. Prada

LOCATION: Bellmouth, Queens



Depth (ft)	Elev. (ft)	Water Level Elevations (ft)
0	325.1	3/16/01 - 308.3'
0	325.1	3/19/01 - 308.3'
2 in.		3/20/01 - 308.4'
		3/21/01 - 308.2'
		4/2/01 - 309.1'
		5/18/01 - 308.7'
63	262.1	
65	260.1	
67	258.1	
77	248.1	
96	229.1	

Note:

OBSERVATION WELL TYPE 4 QB.GPJ PB_NYC.GDT 6/21/01

APPENDIX C

Table C-1

SUMMARY OF GROUNDWATER QUALITY DATA

	Well	QB 301W	QB 301W	QV 304W	QB 304W	QB 305W	QB 305W
		Pre-purge	Post-purge	Pre-purge	Post-purge	Pre-purge	Post-purge
	Date	4/9/2001	4/10/2001	4/9/2001	4/9/2001	4/9/2001	4/9/2001
	Time	10:10	12:08	13:05	14:30	10:28	11:35
MEASUREMENT	UNITS						
pH	-	11.29	11.10	10./69	10.82	8.52	8.73
Conductivity	(ms/cm)	2.48	2.40	256.00	0.44	0.65	0.68
Dissolved Oxygen	(mg/L)	1.60	2.24	5.83	7.22	0.21	2.34
Temp	(C)	14.5	15.5	17.8	17.3	16.4	16.6
Salinity	(%)	NA	0.11	0	0.01	0	0.02
Turbidity	(NTU)	950	410	80	123	130	167
Color	-	Brown	Dark gray	Gray/clear	-	Gray/clear	Clear
Odor	-	Plastic/yeast	Yeast	None	None	None	None

Table C-2

WATER-LEVEL ELEVATIONS AND SEPARATE-PHASE PETROLEUM THICKNESS MEASUREMENTS
April 9, 2001

Bellmouth
PB/STV East Side Access Project
Long Island City, NY

Well I.D. No.	Surface Elevation (Ft. MSL)	Elevation Top of Casing (Ft. PMSL)	Depth to Water (ft-bmp)	Water Level Elevation*	Depth to Petroleum (ft-bmp)	Petroleum Thickness (ft)
Existing Monitoring Wells						
QB 106W	324.8	326.0	15.64	310.36	ND	ND
QB 117W	316.5	316.4	NA	NA	ND	ND
QB 301W	332.6	332.1	25.50	306.64	ND	ND
QB 302W	331.4	330.8	22.31	308.51	ND	ND
QB 303W	328.2	327.7	20.18	307.51	ND	ND
QB 304W	323.5	323.4	14.90	308.45	ND	ND
QB 305W	325.1	325.0	15.94	309.01	ND	ND

NOTES
PVC: Schedule 40 polyvinyl chloride piping
TEC: Tunnel Engineering Consultant
Ft. PMSL: Feet above Project Mean Sea Level elevation as
determined by the National Geodetic Vertical Datum of 1929
Ft-bg: Feet below surface grade
Ft-bmp: Feet below measuring point (top of casing)
*Water table elevation corrected where product present
(corrected elevation = specific density of the product times the apparent thicknes + the uncorrected elevation).
Correction assumes density of 0.874 (the average specific density of yard petroleum samples).

APPENDIX D

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

March 28, 2001

Jeff Butler
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX: (212) 529-5237

RE: 07-02184 East Side Access-Bellmouth Order No.: 0103138

Dear Jeff Butler:

AMRO Environmental Laboratories Corp. received 5 samples on 3/16/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 23 pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

for Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Project: 07-02184 East Side Access-Bellmouth
Lab Order: 0103138
Date Received: 3/15/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0103138-01A	QB-305W (1'6")	3/15/01
0103138-02A	QB-305W (0-4')	3/15/01
0103138-02B	QB-305W (0-4')	3/15/01
0103138-02C	QB-305W (0-4')	3/15/01
0103138-03A	QB-305W (21')	3/15/01
0103138-04A	QB-305W (18-22)	3/15/01
0103138-04B	QB-305W (18-22)	3/15/01
0103138-04C	QB-305W (18-22)	3/15/01
0103138-05A	Trip Blank	3/15/01

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-305W (0-4')
Lab Order:	0103138		
Project:	07-02184 East Side Access-Bellmouth	**Collection Date:**	3/15/01
Lab ID:	0103138-02A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	**D2216**					Analyst: **SL**
Percent Moisture	6.6	0		wt%	1	3/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-305W (21')
Lab Order:	0103138		
Project:	07-02184 East Side Access-Bellmouth	**Collection Date:**	3/15/01
Lab ID:	0103138-03A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	**D2216**					Analyst: **CB**
Percent Moisture	20.3	0		wt%	1	3/26/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-305W (18-22)
Lab Order:	0103138		
Project:	07-02184 East Side Access-Bellmouth	**Collection Date:**	3/15/01
Lab ID:	0103138-04C	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP		**SW7470**				Analyst: **MT**
Mercury	ND	0.0010		mg/L	1	3/27/01
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
Arsenic	ND	1.0		mg/L	1	3/22/01 2:09:58 PM
Barium	ND	2.0		mg/L	1	3/22/01 2:09:58 PM
Cadmium	ND	0.10		mg/L	1	3/22/01 2:09:58 PM
Chromium	ND	0.10		mg/L	1	3/22/01 2:09:58 PM
Lead	ND	1.0		mg/L	1	3/22/01 2:09:58 PM
Selenium	ND	0.58		mg/L	1	3/22/01 2:09:58 PM
Silver	ND	0.10		mg/L	1	3/22/01 2:09:58 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: QB-305W (1'6")
Lab Order: 0103138
Project: 07-02184 East Side Access-Bellmouth
Collection Date: 3/15/01
Lab ID: 0103138-01A
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
Ethylbenzene	310	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
m,p-Xylene	1,600	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
o-Xylene	660	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
Styrene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
Bromoform	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
Isopropylbenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,1,2,2-Tetrachloroethane	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,2,3-Trichloropropane	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
Bromobenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
n-Propylbenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
2-Chlorotoluene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
4-Chlorotoluene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,3,5-Trimethylbenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
tert-Butylbenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,2,4-Trimethylbenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
sec-Butylbenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
4-Isopropyltoluene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,3-Dichlorobenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,4-Dichlorobenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
n-Butylbenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,2-Dichlorobenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,2-Dibromo-3-chloropropane	ND	52		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,2,4-Trichlorobenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
Hexachlorobutadiene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM
Naphthalene	ND	52		µg/Kg-dry	1	3/24/01 3:55:00 PM
1,2,3-Trichlorobenzene	ND	26		µg/Kg-dry	1	3/24/01 3:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: QB-305W (21')
Lab Order: 0103138
Project: 07-02184 East Side Access-Bellmouth
Collection Date: 3/15/01
Lab ID: 0103138-03A
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
Ethylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
m,p-Xylene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
o-Xylene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
Styrene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
Bromoform	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
Isopropylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,1,2,2-Tetrachloroethane	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,2,3-Trichloropropane	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
Bromobenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
n-Propylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
2-Chlorotoluene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
4-Chlorotoluene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,3,5-Trimethylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
tert-Butylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,2,4-Trimethylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
sec-Butylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
4-Isopropyltoluene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,3-Dichlorobenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,4-Dichlorobenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
n-Butylbenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,2-Dichlorobenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,2-Dibromo-3-chloropropane	ND	60		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,2,4-Trichlorobenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
Hexachlorobutadiene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM
Naphthalene	ND	60		µg/Kg-dry	1	3/24/01 4:31:00 PM
1,2,3-Trichlorobenzene	ND	30		µg/Kg-dry	1	3/24/01 4:31:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: Trip Blank
Lab Order: 0103138
Project: 07-02184 East Side Access-Bellmouth
Collection Date: 3/15/01
Lab ID: 0103138-05A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
Ethylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
m,p-Xylene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
o-Xylene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
Styrene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
Bromoform	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
Bromobenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	3/19/01 5:16:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM
Naphthalene	ND	5.0		µg/L	1	3/19/01 5:16:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	3/19/01 5:16:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: QB-305W (0-4')
Lab Order: 0103138
Project: 07-02184 East Side Access-Bellmouth
Collection Date: 3/15/01
Lab ID: 0103138-02A
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Diethyl phthalate	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
4-Chlorophenyl phenyl ether	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Fluorene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
4-Nitroaniline	ND	530		µg/Kg-dry	1	3/20/01 1:29:00 PM
4,6-Dinitro-2-methylphenol	ND	530		µg/Kg-dry	1	3/20/01 1:29:00 PM
N-Nitrosodiphenylamine	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
4-Bromophenyl phenyl ether	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Hexachlorobenzene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Pentachlorophenol	ND	530		µg/Kg-dry	1	3/20/01 1:29:00 PM
Phenanthrene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Anthracene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Carbazole	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Di-n-butyl phthalate	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Fluoranthene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Pyrene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Butyl benzyl phthalate	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Bis(2-ethylhexyl)phthalate	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
3,3'-Dichlorobenzidine	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Benz(a)anthracene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Chrysene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Di-n-octyl phthalate	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Benzo(b)fluoranthene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Benzo(k)fluoranthene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Benzo(a)pyrene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Dibenz(a,h)anthracene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Indeno(1,2,3-cd)pyrene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM
Benzo(g,h,i)perylene	ND	260		µg/Kg-dry	1	3/20/01 1:29:00 PM

Qualifiers:

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B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: QB-305W (18-22)
Lab Order: 0103138
Project: 07-02184 East Side Access-Bellmouth
Collection Date: 3/15/01
Lab ID: 0103138-04A
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Diethyl phthalate	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
4-Chlorophenyl phenyl ether	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Fluorene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
4-Nitroaniline	ND	620		µg/Kg-dry	1	3/20/01 1:04:00 PM
4,6-Dinitro-2-methylphenol	ND	620		µg/Kg-dry	1	3/20/01 1:04:00 PM
N-Nitrosodiphenylamine	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
4-Bromophenyl phenyl ether	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Hexachlorobenzene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Pentachlorophenol	ND	620		µg/Kg-dry	1	3/20/01 1:04:00 PM
Phenanthrene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Anthracene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Carbazole	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Di-n-butyl phthalate	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Fluoranthene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Pyrene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Butyl benzyl phthalate	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Bis(2-ethylhexyl)phthalate	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
3,3'-Dichlorobenzidine	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Benz(a)anthracene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Chrysene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Di-n-octyl phthalate	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Benzo(b)fluoranthene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Benzo(k)fluoranthene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Benzo(a)pyrene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Dibenz(a,h)anthracene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM
Benzo(g,h,i)perylene	ND	310		µg/Kg-dry	1	3/20/01 1:04:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-305W (18-22)
Lab Order:	0103138		
Project:	07-02184 East Side Access-Bellmouth	**Collection Date:**	3/15/01
Lab ID:	0103138-04B	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082		**SW8082**				Analyst: **RAP**
Aroclor 1016	ND	31		µg/Kg-dry	1	3/21/01 9:43:00 PM
Aroclor 1221	ND	31		µg/Kg-dry	1	3/21/01 9:43:00 PM
Aroclor 1232	ND	31		µg/Kg-dry	1	3/21/01 9:43:00 PM
Aroclor 1242	ND	31		µg/Kg-dry	1	3/21/01 9:43:00 PM
Aroclor 1248	ND	31		µg/Kg-dry	1	3/21/01 9:43:00 PM
Aroclor 1254	ND	31		µg/Kg-dry	1	3/21/01 9:43:00 PM
Aroclor 1260	ND	31		µg/Kg-dry	1	3/21/01 9:43:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corporation

SAMPLE RECEIPT CHECKLIST

111 Herrick Street
Merrimack, NH 03054
~~(603) 424-2022~~

Client: STV
Project Name: 07-02184 ESA.
Ship via: (circle one) Fed Ex., UPS , AMRO Courier,
Hand Del., Other Courier, Other:

AMRO ID: 0103138
Date Rec.: 3-16-01
Date Due: 3-28-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓			
5. Is COC included with samples?	✓			
6. Is COC signed and dated by client?	✓			
7. Laboratory receipt temperature. TEMP = 4°				
Samples rec. with ice ✓ ice packs ___ neither ___				
8. Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?	✓			
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓			
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓			
13. Were all samples properly preserved?	✓			
14. Were proper sample containers used?	✓			
15. Were all samples received intact? (none broken or leaking)	✓			
16. Were VOA vials rec. with no air bubbles?			✓	
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:				
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?	✓			
Client Log?			✓	
Composite Log?			✓	
Filtration Log?			✓	

Received By: CC Date: 3/16/01 Logged in By: CC Date: 3-16-01
Labeled By: CC Date: 3-16-01 Checked By: Date:

NA= Not Applicable

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

37948

Office: (603) 424-2022
Fax: (603) 429-8496

Project No.: 07-02184	Project Name: ESA- Bellmouth	Project Manager: CV	Samplers (Signature): Christine Vlahos, Pamela Leith	AMRO Project No.: 01038
	Project State:			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Analysis Required: TCL VOCs	TCL SVOCs	TCL PCBs	TCLP metals	Remarks
	For all: 3/15/01							
QB-305W (1'6")	1208	S	1x4oz	X				
QB-305W (0-4')	1213	S	1x8oz		X			
QB-305W (0-4')	1215	S	1x4oz			X		
QB-305W (0-4')	1217	S	1x8oz				X	
QB-305W (21')	1340	S	1x4oz	X				
QB-305W (18-22)	1345	S	1x8oz		X			
QB-305W (18-22)	1350	S	1x4oz			X		
QB-305W (18-22)	1355	S	1x8oz				X	
	15							

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

FAX No.:

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

Send Results To:

Relinquished By	Date/ Time	Received By	Date/Time
Pamela L. Leith	3/15/01 13:50		
	3/16/01 10:00	C Charles	

Seal Intact? Yes No N/A

P.O. No:

Results Needed By:

GW-1 ___ GW-2 ___ GW-3 ___

MCP Level Needed:

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER

AUTHORIZATION No. ___ BY: ___

SHEET ___ OF ___

2

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

March 28, 2001

Jeff Butler
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX: (212) 529-5237

RE: 07-02184 East Side Access Bellmouth Order No.: 0103162

Dear Jeff Butler:

AMRO Environmental Laboratories Corp. received 4 samples on 3/19/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 17 pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

for Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Project: 07-02184 East Side Access Bellmouth
Lab Order: 0103162
Date Received: 3/19/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0103162-01A	QB 305 W (65-67')	3/16/01
0103162-02A	QB 305W (70-72')	3/16/01
0103162-02B	QB 305W (70-72')	3/16/01
0103162-03A	QB 305W (72')	3/16/01
0103162-04A	Trip Blank	3/16/01

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 305 W (65-67')
Lab Order:	0103162		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/16/01
Lab ID:	0103162-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **CB**
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Percent Moisture	15.8	0		wt%	1	3/21/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 305W (70-72')
Lab Order:	0103162		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/16/01
Lab ID:	0103162-02B	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP		**SW7470**				Analyst: **MT**
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Mercury	ND	0.0010		mg/L	1	3/27/01
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Arsenic	ND	1.0		mg/L	1	3/27/01 2:00:02 PM
Barium	ND	2.0		mg/L	1	3/27/01 2:00:02 PM
Cadmium	ND	0.10		mg/L	1	3/27/01 2:00:02 PM
Chromium	ND	0.10		mg/L	1	3/27/01 2:00:02 PM
Copper	ND	1.0		mg/L	1	3/27/01 2:00:02 PM
Lead	ND	1.0		mg/L	1	3/27/01 2:00:02 PM
Nickel	ND	1.0		mg/L	1	3/27/01 2:00:02 PM
Selenium	ND	0.58		mg/L	1	3/27/01 2:00:02 PM
Silver	ND	0.10		mg/L	1	3/27/01 2:00:02 PM
Zinc	ND	1.0		mg/L	1	3/27/01 2:00:02 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 305W (72')
Lab Order:	0103162		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/16/01
Lab ID:	0103162-03A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Dichlorodifluoromethane	ND	55		µg/Kg-dry	1	3/26/01 10:03:00 PM
Chloromethane	ND	55		µg/Kg-dry	1	3/26/01 10:03:00 PM
Vinyl chloride	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Chloroethane	ND	55		µg/Kg-dry	1	3/26/01 10:03:00 PM
Bromomethane	ND	55		µg/Kg-dry	1	3/26/01 10:03:00 PM
Trichlorofluoromethane	ND	55		µg/Kg-dry	1	3/26/01 10:03:00 PM
Acetone	ND	270		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,1-Dichloroethene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Carbon disulfide	ND	55		µg/Kg-dry	1	3/26/01 10:03:00 PM
Methylene chloride	ND	55		µg/Kg-dry	1	3/26/01 10:03:00 PM
Methyl tert-butyl ether	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
trans-1,2-Dichloroethene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,1-Dichloroethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
2-Butanone	ND	270		µg/Kg-dry	1	3/26/01 10:03:00 PM
2,2-Dichloropropane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
cis-1,2-Dichloroethene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Chloroform	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Bromochloromethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,1,1-Trichloroethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,1-Dichloropropene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Carbon tetrachloride	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,2-Dichloroethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Benzene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Trichloroethene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,2-Dichloropropane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Bromodichloromethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Dibromomethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
4-Methyl-2-pentanone	ND	270		µg/Kg-dry	1	3/26/01 10:03:00 PM
cis-1,3-Dichloropropene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Toluene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
trans-1,3-Dichloropropene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,1,2-Trichloroethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,2-Dibromoethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
2-Hexanone	ND	270		µg/Kg-dry	1	3/26/01 10:03:00 PM
1,3-Dichloropropane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Tetrachloroethene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Dibromochloromethane	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM
Chlorobenzene	ND	27		µg/Kg-dry	1	3/26/01 10:03:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: Trip Blank
Lab Order: 0103162
Project: 07-02184 East Side Access Bellmouth
Collection Date: 3/16/01
Lab ID: 0103162-04A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS	**SW8260B**					Analyst: **JSL**
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Dichlorodifluoromethane	ND	5.0		µg/L	1	3/22/01 1:55:00 PM
Chloromethane	ND	5.0		µg/L	1	3/22/01 1:55:00 PM
Vinyl chloride	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Chloroethane	ND	5.0		µg/L	1	3/22/01 1:55:00 PM
Bromomethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Acetone	ND	10		µg/L	1	3/22/01 1:55:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/22/01 1:55:00 PM
Carbon disulfide	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Methylene chloride	ND	5.0		µg/L	1	3/22/01 1:55:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
2-Butanone	ND	10		µg/L	1	3/22/01 1:55:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Chloroform	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Bromochloromethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Benzene	ND	1.0		µg/L	1	3/22/01 1:55:00 PM
Trichloroethene	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Dibromomethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/22/01 1:55:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/22/01 1:55:00 PM
Toluene	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/22/01 1:55:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
2-Hexanone	ND	10		µg/L	1	3/22/01 1:55:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	3/22/01 1:55:00 PM
Chlorobenzene	ND	2.0		µg/L	1	3/22/01 1:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 305W (70-72')
Lab Order:	0103162		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/16/01
Lab ID:	0103162-02A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Phenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Bis(2-chloroethyl)ether	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2-Chlorophenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
1,3-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
1,4-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Benzyl alcohol	ND	550		µg/Kg-dry	1	3/23/01 4:16:00 PM
2-Methylphenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
1,2-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Bis(2-chloroisopropyl)ether	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
4-Methylphenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
N-Nitrosodi-n-propylamine	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Hexachloroethane	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Nitrobenzene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Isophorone	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2,4-Dimethylphenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Benzoic acid	ND	550		µg/Kg-dry	1	3/23/01 4:16:00 PM
2-Nitrophenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Bis(2-chloroethoxy)methane	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2,4-Dichlorophenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Naphthalene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
4-Chloroaniline	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Hexachlorobutadiene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
4-Chloro-3-methylphenol	ND	550		µg/Kg-dry	1	3/23/01 4:16:00 PM
2-Methylnaphthalene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Hexachlorocyclopentadiene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2,4,6-Trichlorophenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2,4,5-Trichlorophenol	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2-Chloronaphthalene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2-Nitroaniline	ND	550		µg/Kg-dry	1	3/23/01 4:16:00 PM
Dimethyl phthalate	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2,6-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
Acenaphthylene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
3-Nitroaniline	ND	550		µg/Kg-dry	1	3/23/01 4:16:00 PM
4-Nitrophenol	ND	550		µg/Kg-dry	1	3/23/01 4:16:00 PM
2,4-Dinitrophenol	ND	550		µg/Kg-dry	1	3/23/01 4:16:00 PM
Acenaphthene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM
2,4-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/23/01 4:16:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *28-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 305 W (65-67')
Lab Order:	0103162		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/16/01
Lab ID:	0103162-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082		**SW8082**				Analyst: **RAP**
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Aroclor 1016	ND	29		µg/Kg-dry	1	3/23/01 6:44:00 PM
Aroclor 1221	ND	29		µg/Kg-dry	1	3/23/01 6:44:00 PM
Aroclor 1232	ND	29		µg/Kg-dry	1	3/23/01 6:44:00 PM
Aroclor 1242	ND	29		µg/Kg-dry	1	3/23/01 6:44:00 PM
Aroclor 1248	ND	29		µg/Kg-dry	1	3/23/01 6:44:00 PM
Aroclor 1254	ND	29		µg/Kg-dry	1	3/23/01 6:44:00 PM
Aroclor 1260	ND	29		µg/Kg-dry	1	3/23/01 6:44:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corporation

SAMPLE RECEIPT CHECKLIST

111 Herrick Street
Merrimack, NH 03054
~~(603) 424-2022~~

Client: STV
Project Name: ESA - BELLMOUTH
Ship via: (circle one) Fed Ex., UPS , AMRO Courier, nd Del., Other Courier, Other:

AMRO ID: 0103162
Date Rec.: 3-19-01
Date Due: 3-29-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓		-	in folder 0103160
5. Is COC included with samples?				
6. Is COC signed and dated by client?		—		
7. Laboratory receipt temperature. TEMP = 16°				
Samples rec. with ice ✓ ice packs ___ neither ___				ice melted
8. Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?		✓		fax to client
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓			
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓			
13. Were all samples properly preserved?	✓			
14. Were proper sample containers used?	✓			
15. Were all samples received intact? (none broken or leaking)	✓			
16. Were VOA vials rec. with no air bubbles?		✓		BUBBLE WTB
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:				
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?	✓			
Client Log?			✓	
Composite Log?			✓	
Filtration Log?			✓	

Received By: CC Date: 3-19-01 Logged in By: CC Date: 3-21-01
Labeled By: CC Date: 3-21-01 Checked By: Date:

NA= Not Applicable

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

31941

Fax: (603) 429-8496

Project No.: 07-02184	Project Name: ESA-Bellmouth	Project Manager: CVF	Samplers (Signature): Pamela Allen	AMRO Project No.: 0103162
	Project State: NY			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	TCL VOCs	TCL SVOCs	TCL PCBs	TCLP Metals	Remarks
QB 305 W (~~60~~ 65 - 67')	3/16/01 13 35	S	1x4oz DO			X		
QB 305 W (70 - 72)	13 38	S	1x4oz		X			
QB 305 W (70 - 72)	13 40	S	2x4oz				X	
QB 305W (72')	11 10	S	1x2oz	X	*		TRIP Blank	
Trip Blank		aqueous	1x40mL	X	*			Retain X

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

FAX No.: _____

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

Send Results To: _____

Seal Intact? Yes No N/A

GW-1 ___ GW-2 ___ GW-3 ___

MCP Level Needed: _____

P.O. #

Results Needed By:

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER
AUTHORIZATION No. _____ BY: _____

SHEET ___ OF ___

Relinquished By	Date/ Time	Received By	Date/Time
Pamela Allen	3/16/01 1345		
	3/19/01 10:30	C Cearley	

White: Lab Copy — Yellow: Accompanies Report — Pink: Client Copy

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

March 30, 2001

Jeff Butler
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX: (212) 529-5237

RE: 07-02184 ESA- Bellmouth Order No.: 0103204

Dear Jeff Butler:

AMRO Environmental Laboratories Corp. received 6 samples on 3/22/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 29 pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

for Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (0-1')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **CB**
Percent Moisture	6.7	0		wt%	1	3/23/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (0-4')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-03C	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP		**SW7470**				Analyst: **MT**
Mercury	ND	0.0010		mg/L	1	3/27/01
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
Arsenic	ND	1.0		mg/L	1	3/27/01 2:07:03 PM
Barium	ND	2.0		mg/L	1	3/27/01 2:07:03 PM
Cadmium	ND	0.10		mg/L	1	3/27/01 2:07:03 PM
Chromium	ND	0.10		mg/L	1	3/27/01 2:07:03 PM
Lead	ND	1.0		mg/L	1	3/27/01 2:07:03 PM
Selenium	ND	0.58		mg/L	1	3/27/01 2:07:03 PM
Silver	ND	0.10		mg/L	1	3/27/01 2:07:03 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	'QB 302 W (18-22')'
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-04C	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP		**SW7470**				Analyst: **MT**
Mercury	ND	0.0010		mg/L	1	3/27/01
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
Arsenic	ND	1.0		mg/L	1	3/27/01 2:10:34 PM
Barium	ND	2.0		mg/L	1	3/27/01 2:10:34 PM
Cadmium	ND	0.10		mg/L	1	3/27/01 2:10:34 PM
Chromium	ND	0.10		mg/L	1	3/27/01 2:10:34 PM
Lead	ND	1.0		mg/L	1	3/27/01 2:10:34 PM
Selenium	ND	0.58		mg/L	1	3/27/01 2:10:34 PM
Silver	ND	0.10		mg/L	1	3/27/01 2:10:34 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (0-1')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	50		µg/Kg-dry	1	3/26/01 8:19:00 PM
Chloromethane	ND	50		µg/Kg-dry	1	3/26/01 8:19:00 PM
Vinyl chloride	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Chloroethane	ND	50		µg/Kg-dry	1	3/26/01 8:19:00 PM
Bromomethane	ND	50		µg/Kg-dry	1	3/26/01 8:19:00 PM
Trichlorofluoromethane	ND	50		µg/Kg-dry	1	3/26/01 8:19:00 PM
Acetone	ND	250		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,1-Dichloroethene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Carbon disulfide	ND	50		µg/Kg-dry	1	3/26/01 8:19:00 PM
Methylene chloride	ND	50		µg/Kg-dry	1	3/26/01 8:19:00 PM
Methyl tert-butyl ether	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
trans-1,2-Dichloroethene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,1-Dichloroethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
2-Butanone	ND	250		µg/Kg-dry	1	3/26/01 8:19:00 PM
2,2-Dichloropropane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
cis-1,2-Dichloroethene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Chloroform	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Bromochloromethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,1,1-Trichloroethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,1-Dichloropropene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Carbon tetrachloride	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,2-Dichloroethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Benzene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Trichloroethene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,2-Dichloropropane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Bromodichloromethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Dibromomethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
4-Methyl-2-pentanone	ND	250		µg/Kg-dry	1	3/26/01 8:19:00 PM
cis-1,3-Dichloropropene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Toluene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
trans-1,3-Dichloropropene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,1,2-Trichloroethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,2-Dibromoethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
2-Hexanone	ND	250		µg/Kg-dry	1	3/26/01 8:19:00 PM
1,3-Dichloropropane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Tetrachloroethene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Dibromochloromethane	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM
Chlorobenzene	ND	25		µg/Kg-dry	1	3/26/01 8:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: QB 302 W (18')
Lab Order: 0103204
Project: 07-02184 ESA- Bellmouth
Collection Date: 3/21/01
Lab ID: 0103204-02A
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	62		µg/Kg-dry	1	3/26/01 8:53:00 PM
Chloromethane	ND	62		µg/Kg-dry	1	3/26/01 8:53:00 PM
Vinyl chloride	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Chloroethane	ND	62		µg/Kg-dry	1	3/26/01 8:53:00 PM
Bromomethane	ND	62		µg/Kg-dry	1	3/26/01 8:53:00 PM
Trichlorofluoromethane	ND	62		µg/Kg-dry	1	3/26/01 8:53:00 PM
Acetone	ND	310		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,1-Dichloroethene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Carbon disulfide	ND	62		µg/Kg-dry	1	3/26/01 8:53:00 PM
Methylene chloride	ND	62		µg/Kg-dry	1	3/26/01 8:53:00 PM
Methyl tert-butyl ether	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
trans-1,2-Dichloroethene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,1-Dichloroethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
2-Butanone	ND	310		µg/Kg-dry	1	3/26/01 8:53:00 PM
2,2-Dichloropropane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
cis-1,2-Dichloroethene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Chloroform	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Bromochloromethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,1,1-Trichloroethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,1-Dichloropropene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Carbon tetrachloride	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,2-Dichloroethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Benzene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Trichloroethene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,2-Dichloropropane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Bromodichloromethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Dibromomethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
4-Methyl-2-pentanone	ND	310		µg/Kg-dry	1	3/26/01 8:53:00 PM
cis-1,3-Dichloropropene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Toluene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
trans-1,3-Dichloropropene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,1,2-Trichloroethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,2-Dibromoethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
2-Hexanone	ND	310		µg/Kg-dry	1	3/26/01 8:53:00 PM
1,3-Dichloropropane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Tetrachloroethene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Dibromochloromethane	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM
Chlorobenzene	ND	31		µg/Kg-dry	1	3/26/01 8:53:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (50-52')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-05A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: **SK**
Dichlorodifluoromethane	ND	49		µg/Kg-dry	1	3/26/01 9:28:00 PM
Chloromethane	ND	49		µg/Kg-dry	1	3/26/01 9:28:00 PM
Vinyl chloride	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Chloroethane	ND	49		µg/Kg-dry	1	3/26/01 9:28:00 PM
Bromomethane	ND	49		µg/Kg-dry	1	3/26/01 9:28:00 PM
Trichlorofluoromethane	ND	49		µg/Kg-dry	1	3/26/01 9:28:00 PM
Acetone	ND	250		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,1-Dichloroethene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Carbon disulfide	ND	49		µg/Kg-dry	1	3/26/01 9:28:00 PM
Methylene chloride	ND	49		µg/Kg-dry	1	3/26/01 9:28:00 PM
Methyl tert-butyl ether	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
trans-1,2-Dichloroethene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,1-Dichloroethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
2-Butanone	ND	250		µg/Kg-dry	1	3/26/01 9:28:00 PM
2,2-Dichloropropane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
cis-1,2-Dichloroethene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Chloroform	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Bromochloromethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,1,1-Trichloroethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,1-Dichloropropene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Carbon tetrachloride	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,2-Dichloroethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Benzene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Trichloroethene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,2-Dichloropropane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Bromodichloromethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Dibromomethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
4-Methyl-2-pentanone	ND	250		µg/Kg-dry	1	3/26/01 9:28:00 PM
cis-1,3-Dichloropropene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Toluene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
trans-1,3-Dichloropropene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,1,2-Trichloroethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,2-Dibromoethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
2-Hexanone	ND	250		µg/Kg-dry	1	3/26/01 9:28:00 PM
1,3-Dichloropropane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Tetrachloroethene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Dibromochloromethane	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM
Chlorobenzene	ND	25		µg/Kg-dry	1	3/26/01 9:28:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: Trip Blank
Lab Order: 0103204
Project: 07-02184 ESA- Bellmouth
Collection Date: 3/21/01
Lab ID: 0103204-06A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS	**SW8260B**					Analyst: JSL
Dichlorodifluoromethane	ND	5.0		µg/L	1	3/27/01 12:59:00 PM
Chloromethane	ND	5.0		µg/L	1	3/27/01 12:59:00 PM
Vinyl chloride	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Chloroethane	ND	5.0		µg/L	1	3/27/01 12:59:00 PM
Bromomethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Acetone	ND	10		µg/L	1	3/27/01 12:59:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/27/01 12:59:00 PM
Carbon disulfide	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Methylene chloride	ND	5.0		µg/L	1	3/27/01 12:59:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
2-Butanone	ND	10		µg/L	1	3/27/01 12:59:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Chloroform	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Bromochloromethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Benzene	ND	1.0		µg/L	1	3/27/01 12:59:00 PM
Trichloroethene	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Dibromomethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/27/01 12:59:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/01 12:59:00 PM
Toluene	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/01 12:59:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
2-Hexanone	ND	10		µg/L	1	3/27/01 12:59:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	3/27/01 12:59:00 PM
Chlorobenzene	ND	2.0		µg/L	1	3/27/01 12:59:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (0-4')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-03B	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Bis(2-chloroethyl)ether	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2-Chlorophenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
1,3-Dichlorobenzene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
1,4-Dichlorobenzene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Benzyl alcohol	ND	550		µg/Kg-dry	1	3/27/01 2:05:00 AM
2-Methylphenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
1,2-Dichlorobenzene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Bis(2-chloroisopropyl)ether	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
4-Methylphenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
N-Nitrosodi-n-propylamine	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Hexachloroethane	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Nitrobenzene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Isophorone	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2,4-Dimethylphenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Benzoic acid	ND	550		µg/Kg-dry	1	3/27/01 2:05:00 AM
2-Nitrophenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Bis(2-chloroethoxy)methane	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2,4-Dichlorophenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
1,2,4-Trichlorobenzene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Naphthalene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
4-Chloroaniline	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Hexachlorobutadiene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
4-Chloro-3-methylphenol	ND	550		µg/Kg-dry	1	3/27/01 2:05:00 AM
2-Methylnaphthalene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Hexachlorocyclopentadiene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2,4,6-Trichlorophenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2,4,5-Trichlorophenol	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2-Chloronaphthalene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2-Nitroaniline	ND	550		µg/Kg-dry	1	3/27/01 2:05:00 AM
Dimethyl phthalate	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2,6-Dinitrotoluene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
Acenaphthylene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
3-Nitroaniline	ND	550		µg/Kg-dry	1	3/27/01 2:05:00 AM
4-Nitrophenol	ND	550		µg/Kg-dry	1	3/27/01 2:05:00 AM
2,4-Dinitrophenol	ND	550		µg/Kg-dry	1	3/27/01 2:05:00 AM
Acenaphthene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM
2,4-Dinitrotoluene	ND	270		µg/Kg-dry	1	3/27/01 2:05:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (18-22')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-04B	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Bis(2-chloroethyl)ether	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2-Chlorophenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
1,3-Dichlorobenzene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
1,4-Dichlorobenzene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Benzyl alcohol	ND	620		µg/Kg-dry	1	3/27/01 2:35:00 AM
2-Methylphenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
1,2-Dichlorobenzene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Bis(2-chloroisopropyl)ether	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
4-Methylphenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
N-Nitrosodi-n-propylamine	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Hexachloroethane	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Nitrobenzene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Isophorone	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2,4-Dimethylphenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Benzoic acid	ND	620		µg/Kg-dry	1	3/27/01 2:35:00 AM
2-Nitrophenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Bis(2-chloroethoxy)methane	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2,4-Dichlorophenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
1,2,4-Trichlorobenzene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Naphthalene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
4-Chloroaniline	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Hexachlorobutadiene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
4-Chloro-3-methylphenol	ND	620		µg/Kg-dry	1	3/27/01 2:35:00 AM
2-Methylnaphthalene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Hexachlorocyclopentadiene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2,4,6-Trichlorophenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2,4,5-Trichlorophenol	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2-Chloronaphthalene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2-Nitroaniline	ND	620		µg/Kg-dry	1	3/27/01 2:35:00 AM
Dimethyl phthalate	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2,6-Dinitrotoluene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
Acenaphthylene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
3-Nitroaniline	ND	620		µg/Kg-dry	1	3/27/01 2:35:00 AM
4-Nitrophenol	ND	620		µg/Kg-dry	1	3/27/01 2:35:00 AM
2,4-Dinitrophenol	ND	620		µg/Kg-dry	1	3/27/01 2:35:00 AM
Acenaphthene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM
2,4-Dinitrotoluene	ND	310		µg/Kg-dry	1	3/27/01 2:35:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (50-52')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-05A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Bis(2-chloroethyl)ether	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2-Chlorophenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
1,3-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
1,4-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Benzyl alcohol	ND	560		µg/Kg-dry	1	3/27/01 3:07:00 AM
2-Methylphenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
1,2-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Bis(2-chloroisopropyl)ether	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
4-Methylphenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
N-Nitrosodi-n-propylamine	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Hexachloroethane	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Nitrobenzene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Isophorone	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2,4-Dimethylphenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Benzoic acid	ND	560		µg/Kg-dry	1	3/27/01 3:07:00 AM
2-Nitrophenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Bis(2-chloroethoxy)methane	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2,4-Dichlorophenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Naphthalene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
4-Chloroaniline	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Hexachlorobutadiene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
4-Chloro-3-methylphenol	ND	560		µg/Kg-dry	1	3/27/01 3:07:00 AM
2-Methylnaphthalene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Hexachlorocyclopentadiene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2,4,6-Trichlorophenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2,4,5-Trichlorophenol	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2-Chloronaphthalene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2-Nitroaniline	ND	560		µg/Kg-dry	1	3/27/01 3:07:00 AM
Dimethyl phthalate	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2,6-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
Acenaphthylene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
3-Nitroaniline	ND	560		µg/Kg-dry	1	3/27/01 3:07:00 AM
4-Nitrophenol	ND	560		µg/Kg-dry	1	3/27/01 3:07:00 AM
2,4-Dinitrophenol	ND	560		µg/Kg-dry	1	3/27/01 3:07:00 AM
Acenaphthene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM
2,4-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/27/01 3:07:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

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E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (0-4')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-03A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082		**SW8082**				Analyst: RAP
Aroclor 1016	ND	28		µg/Kg-dry	1	3/28/01 1:22:00 PM
Aroclor 1221	ND	28		µg/Kg-dry	1	3/28/01 1:22:00 PM
Aroclor 1232	ND	28		µg/Kg-dry	1	3/28/01 1:22:00 PM
Aroclor 1242	ND	28		µg/Kg-dry	1	3/28/01 1:22:00 PM
Aroclor 1248	ND	28		µg/Kg-dry	1	3/28/01 1:22:00 PM
Aroclor 1254	ND	28		µg/Kg-dry	1	3/28/01 1:22:00 PM
Aroclor 1260	ND	28		µg/Kg-dry	1	3/28/01 1:22:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *30-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 302 W (50-52')
Lab Order:	0103204		
Project:	07-02184 ESA- Bellmouth	**Collection Date:**	3/21/01
Lab ID:	0103204-05A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082	**SW8082**					Analyst: **RAP**
Aroclor 1016	ND	29		µg/Kg-dry	1	3/28/01 3:08:00 PM
Aroclor 1221	ND	29		µg/Kg-dry	1	3/28/01 3:08:00 PM
Aroclor 1232	ND	29		µg/Kg-dry	1	3/28/01 3:08:00 PM
Aroclor 1242	ND	29		µg/Kg-dry	1	3/28/01 3:08:00 PM
Aroclor 1248	ND	29		µg/Kg-dry	1	3/28/01 3:08:00 PM
Aroclor 1254	ND	29		µg/Kg-dry	1	3/28/01 3:08:00 PM
Aroclor 1260	ND	29		µg/Kg-dry	1	3/28/01 3:08:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Lab Order: 0103204
Client: STV Incorporated
Project: 07-02184 ESA- Bellmouth

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0103204-01A	QB 302 W (0-1')	3/21/01	Soil	Percent Moisture			3/23/01
				VOLATILES by GC/MS, Bulk Soil		3/21/01	3/26/01
0103204-02A	QB 302 W (18')			Percent Moisture			3/23/01
				VOLATILES by GC/MS, Bulk Soil		3/21/01	3/26/01
0103204-03A	QB 302 W (0-4')			PCBS IN SOIL/SOLIDS		3/27/01	3/28/01
				Percent Moisture			3/23/01
0103204-03B				SEMIVOLATILE ORGANICS, Soil/Solids		3/26/01	3/27/01
0103204-03C				ICP METALS, TCLP	3/23/01	3/26/01	3/27/01
				ICP METALS, TCLP	3/23/01	3/26/01	3/27/01
				MERCURY, TCLP	3/23/01	3/27/01	3/27/01
0103204-04A	QB 302 W (18-22')			PCBS IN SOIL/SOLIDS		3/27/01	3/28/01
				Percent Moisture			3/23/01
0103204-04B				SEMIVOLATILE ORGANICS, Soil/Solids		3/26/01	3/27/01
0103204-04C				ICP METALS, TCLP	3/23/01	3/26/01	3/27/01
				ICP METALS, TCLP	3/23/01	3/26/01	3/27/01
				MERCURY, TCLP	3/23/01	3/27/01	3/27/01
0103204-05A	QB 302 W (50-52')			ICP METALS, TCLP	3/23/01	3/26/01	3/27/01
				ICP METALS, TCLP	3/23/01	3/26/01	3/27/01
				MERCURY, TCLP	3/23/01	3/27/01	3/27/01
				PCBS IN SOIL/SOLIDS		3/27/01	3/28/01
				Percent Moisture			3/23/01
				SEMIVOLATILE ORGANICS, Soil/Solids		3/26/01	3/27/01
				VOLATILES by GC/MS, Bulk Soil		3/21/01	3/26/01
0103204-06A	Trip Blank		Aqueous	VOLATILES by GC/MS		3/23/01	3/27/01

AMRO Environmental Laboratories Corporation

SAMPLE RECEIPT CHECKLIST

111 Herrick Street
Merrimack, NH 03054
~~(603) 424-2022~~

Client: STV
Project Name: ESA - Bellmouth
Ship via: (circle one) Fed Ex. UPS , AMRO Courier, nd Del., Other Courier, Other:

AMRO ID: 0103204
Date Rec.: 3-22-01
Date Due: 3-3-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓			
5. Is COC included with samples?				
6. Is COC signed and dated by client?				
7. Laboratory receipt temperature. TEMP = 4.5				
Samples rec. with ice ✓ ice packs ___ neither ___				
8. Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?	✓			
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓			
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓			
13. Were all samples properly preserved?	✓			
14. Were proper sample containers used?	✓			
15. Were all samples received intact? (none broken or leaking)	✓			
16. Were VOA vials rec. with no air bubbles?			✓	
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:				
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, ~~B~~=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?	✓			
Client Log?	✓			
Composite Log?			✓	
Filtration Log?			✓	

Received By: CC Date: 3-22-01 Logged in By: TL Date: 3-23-01
Labeled By: TL Date: 3-23-01 Checked By: Date:

NA= Not Applicable

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

31747

Fax: (603) 429-8496

Project No.: 01-02184	Project Name: LSA Bellmouth	Project Manager: CV	Samplers (Signature): Pamela Allen	AMRO Project No.: 0103204
	Project State:			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Analysis Required: TCL VOCs	TCL PCBs	TCL SVOCs	TCLP Mutals	Remarks
	3/28/01							
QB 302 W (0-1')	08 05	S	1x 2oz	X				
QB 302 W (1-3')	08 40	S	1x 9oz		X			
QB 302 W (3-5')	08 42	S	1x 8oz				X	
QB 302 W (5-7')	08:48	S	1x 8oz			X		
QB 302 W (7-9')	08 20	S	1x 2oz	X				
QB 302 W (9-11')	08: 23	S	1x 8oz			X		
QB 302 W (11-13')	08 25	S	1x 8oz				X	
QB 302 W (13-15')	08 28	S	1x 8oz		X			
QB 302 W (50-52')	09: 30	S	1x 8oz	X	X	X	X	Recovered as mucnas possible. Please note * VOC, SVOCs, mutals, & order of importance
Trip Blank		aqueous	1x40mL	X				

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

FAX No.:

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

Send Results To:

Seal Intact? Yes No N/A

GW-1 GW-2 GW-3

MCP Level Needed:

P.O. No:

Results Needed By:

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER

AUTHORIZATION No. BY:

SHEET OF

Relinquished By	Date/ Time	Received By	Date/Time
Pamela Allen	3/28/01 12 45		
		A Courley	3/29/01 9:30

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

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AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

March 31, 2001

Jeff Butler
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX: (212) 529-5237

RE: 07-02184 East Side Access Bellmouth Order No.: 0103235

Dear Jeff Butler:

AMRO Environmental Laboratories Corp. received 9 samples on 3/26/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 39 pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

for Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT: STV Incorporated
Project: 07-02184 East Side Access Bellmouth
Lab Order: 0103235
Date Received: 3/26/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0103235-01A	QB304W (2')	3/22/01
0103235-02A	QB304W (15')	3/22/01
0103235-03A	QB304W (72)	3/23/01
0103235-04A	QB304W (1-4')	3/22/01
0103235-04B	QB304W (1-4')	3/22/01
0103235-04C	QB304W (1-4')	3/22/01
0103235-05A	QB304W (14-18')	3/22/01
0103235-05B	QB304W (14-18')	3/22/01
0103235-06A	QB-304W (70-72)	3/23/01
0103235-07A	QB-304W (65-67)	3/23/01
0103235-07B	QB-304W (65-67)	3/23/01
0103235-08A	QB304W-FB	3/22/01
0103235-08B	QB304W-FB	3/22/01
0103235-09A	Trip Blank	3/23/01

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT: STV Incorporated
Project: 07-02184 East Side Access Bellmouth
Lab Order: 0103235

CASE NARRATIVE

METALS

1)Analytical Comments for METHOD SPECTRO_TCLP, SAMPLE 0103235-04B: The sample result for Lead was determined by method of standard additions.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (2')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	**D2216**					Analyst: CB
Percent Moisture	11.0	0		wt%	1	3/26/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (15')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-02A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	**D2216**					Analyst: CB
Percent Moisture	20.6	0		wt%	1	3/26/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	Client Sample ID:	QB304W (72)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	Collection Date:	3/23/01
Lab ID:	0103235-03A	Matrix:	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	**D2216**					Analyst: CB
Percent Moisture	16.7	0		wt%	1	3/26/01

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	H - Method prescribed holding time exceeded	# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT: STV Incorporated
Lab Order: 0103235
Project: 07-02184 East Side Access Bellmouth
Lab ID: 0103235-04A

Client Sample ID: QB304W (1-4')
Collection Date: 3/22/01
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	D2216					Analyst: CB
Percent Moisture	13.9	0		wt%	1	3/26/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (1-4')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-04B	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP		**SW7470**				Analyst: MT
Mercury	ND	0.0010		mg/L	1	3/30/01
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: RK
Arsenic	ND	1.0		mg/L	1	3/30/01 10:46:25 AM
Barium	ND	2.0		mg/L	1	3/30/01 10:46:25 AM
Cadmium	ND	0.10		mg/L	1	3/30/01 10:46:25 AM
Chromium	ND	0.10		mg/L	1	3/30/01 10:46:25 AM
Lead	6.8	1.0		mg/L	1	3/30/01 10:46:25 AM
Selenium	ND	0.58		mg/L	1	3/30/01 10:46:25 AM
Silver	ND	0.10		mg/L	1	3/30/01 10:46:25 AM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (14-18')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-05A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	D2216					Analyst: CB
Percent Moisture	23.3	0		wt%	1	3/26/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	Client Sample ID:	QB304W (14-18')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	Collection Date:	3/22/01
Lab ID:	0103235-05B	Matrix:	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP		**SW7470**				Analyst: MT
Mercury	ND	0.0010		mg/L	1	3/30/01
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: RK
Arsenic	ND	1.0		mg/L	1	3/30/01 10:57:15 AM
Barium	ND	2.0		mg/L	1	3/30/01 10:57:15 AM
Cadmium	ND	0.10		mg/L	1	3/30/01 10:57:15 AM
Chromium	ND	0.10		mg/L	1	3/30/01 10:57:15 AM
Lead	ND	1.0		mg/L	1	3/30/01 10:57:15 AM
Selenium	ND	0.58		mg/L	1	3/30/01 10:57:15 AM
Silver	ND	0.10		mg/L	1	3/30/01 10:57:15 AM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-304W (70-72)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/23/01
Lab ID:	0103235-06A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	D2216					Analyst: CB
Percent Moisture	12.1	0		wt%	1	3/26/01

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	H - Method prescribed holding time exceeded	# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-304W (65-67)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/23/01
Lab ID:	0103235-07A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE	**D2216**					Analyst: CB
Percent Moisture	18.4	0		wt%	1	3/26/01

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	H - Method prescribed holding time exceeded	# - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	Client Sample ID:	QB-304W (65-67)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	Collection Date:	3/23/01
Lab ID:	0103235-07B	Matrix:	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP		SW7470				Analyst: MT
Mercury	ND	0.0010		mg/L	1	3/30/01
ICP METALS, TCLP LEACHED		SW1311/6010B				Analyst: RK
Arsenic	ND	1.0		mg/L	1	3/30/01 11:00:46 AM
Barium	ND	2.0		mg/L	1	3/30/01 11:00:46 AM
Cadmium	ND	0.10		mg/L	1	3/30/01 11:00:46 AM
Chromium	ND	0.10		mg/L	1	3/30/01 11:00:46 AM
Lead	ND	1.0		mg/L	1	3/30/01 11:00:46 AM
Selenium	ND	0.58		mg/L	1	3/30/01 11:00:46 AM
Silver	ND	0.10		mg/L	1	3/30/01 11:00:46 AM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (2')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: LN
Dichlorodifluoromethane	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
Chloromethane	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
Vinyl chloride	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Chloroethane	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
Bromomethane	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
Trichlorofluoromethane	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
Acetone	ND	230		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,1-Dichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Carbon disulfide	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
Methylene chloride	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
Methyl tert-butyl ether	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
trans-1,2-Dichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,1-Dichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
2-Butanone	ND	230		µg/Kg-dry	1	3/28/01 6:19:00 PM
2,2-Dichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
cis-1,2-Dichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Chloroform	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Bromochloromethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,1,1-Trichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,1-Dichloropropene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Carbon tetrachloride	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2-Dichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Benzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Trichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2-Dichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Bromodichloromethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Dibromomethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
4-Methyl-2-pentanone	ND	230		µg/Kg-dry	1	3/28/01 6:19:00 PM
cis-1,3-Dichloropropene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Toluene	23	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
trans-1,3-Dichloropropene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,1,2-Trichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2-Dibromoethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
2-Hexanone	ND	230		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,3-Dichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Tetrachloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Dibromochloromethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Chlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM

Qualifiers:

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- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (2')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Ethylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
m,p-Xylene	34	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
o-Xylene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Styrene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Bromoform	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Isopropylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,1,2,2-Tetrachloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2,3-Trichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Bromobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
n-Propylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
2-Chlorotoluene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
4-Chlorotoluene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,3,5-Trimethylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
tert-Butylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2,4-Trimethylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
sec-Butylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
4-Isopropyltoluene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,3-Dichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,4-Dichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
n-Butylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2-Dichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2-Dibromo-3-chloropropane	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2,4-Trichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Hexachlorobutadiene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM
Naphthalene	ND	45		µg/Kg-dry	1	3/28/01 6:19:00 PM
1,2,3-Trichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:19:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
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- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (15')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-02A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS	**SW8260B**					Analyst: LN
Dichlorodifluoromethane	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
Chloromethane	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
Vinyl chloride	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Chloroethane	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
Bromomethane	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
Trichlorofluoromethane	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
Acetone	ND	290		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,1-Dichloroethene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Carbon disulfide	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
Methylene chloride	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
Methyl tert-butyl ether	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
trans-1,2-Dichloroethene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,1-Dichloroethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
2-Butanone	ND	290		µg/Kg-dry	1	3/28/01 5:44:00 PM
2,2-Dichloropropane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
cis-1,2-Dichloroethene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Chloroform	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Bromochloromethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,1,1-Trichloroethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,1-Dichloropropene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Carbon tetrachloride	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2-Dichloroethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Benzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Trichloroethene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2-Dichloropropane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Bromodichloromethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Dibromomethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
4-Methyl-2-pentanone	ND	290		µg/Kg-dry	1	3/28/01 5:44:00 PM
cis-1,3-Dichloropropene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Toluene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
trans-1,3-Dichloropropene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,1,2-Trichloroethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2-Dibromoethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
2-Hexanone	ND	290		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,3-Dichloropropane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Tetrachloroethene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Dibromochloromethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Chlorobenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (15')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-02A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Ethylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
m,p-Xylene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
o-Xylene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Styrene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Bromoform	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Isopropylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,1,2,2-Tetrachloroethane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2,3-Trichloropropane	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Bromobenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
n-Propylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
2-Chlorotoluene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
4-Chlorotoluene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,3,5-Trimethylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
tert-Butylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2,4-Trimethylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
sec-Butylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
4-Isopropyltoluene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,3-Dichlorobenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,4-Dichlorobenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
n-Butylbenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2-Dichlorobenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2-Dibromo-3-chloropropane	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2,4-Trichlorobenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Hexachlorobutadiene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM
Naphthalene	ND	59		µg/Kg-dry	1	3/28/01 5:44:00 PM
1,2,3-Trichlorobenzene	ND	29		µg/Kg-dry	1	3/28/01 5:44:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (72)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/23/01
Lab ID:	0103235-03A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: LN
Dichlorodifluoromethane	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
Chloromethane	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
Vinyl chloride	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Chloroethane	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
Bromomethane	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
Trichlorofluoromethane	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
Acetone	ND	230		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,1-Dichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Carbon disulfide	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
Methylene chloride	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
Methyl tert-butyl ether	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
trans-1,2-Dichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,1-Dichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
2-Butanone	ND	230		µg/Kg-dry	1	3/28/01 6:54:00 PM
2,2-Dichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
cis-1,2-Dichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Chloroform	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Bromochloromethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,1,1-Trichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,1-Dichloropropene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Carbon tetrachloride	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2-Dichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Benzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Trichloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2-Dichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Bromodichloromethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Dibromomethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
4-Methyl-2-pentanone	ND	230		µg/Kg-dry	1	3/28/01 6:54:00 PM
cis-1,3-Dichloropropene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Toluene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
trans-1,3-Dichloropropene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,1,2-Trichloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2-Dibromoethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
2-Hexanone	ND	230		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,3-Dichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Tetrachloroethene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Dibromochloromethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Chlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	Client Sample ID:	QB304W (72)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	Collection Date:	3/23/01
Lab ID:	0103235-03A	Matrix:	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Ethylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
m,p-Xylene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
o-Xylene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Styrene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Bromoform	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Isopropylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,1,2,2-Tetrachloroethane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2,3-Trichloropropane	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Bromobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
n-Propylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
2-Chlorotoluene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
4-Chlorotoluene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,3,5-Trimethylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
tert-Butylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2,4-Trimethylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
sec-Butylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
4-Isopropyltoluene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,3-Dichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,4-Dichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
n-Butylbenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2-Dichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2-Dibromo-3-chloropropane	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2,4-Trichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Hexachlorobutadiene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM
Naphthalene	ND	46		µg/Kg-dry	1	3/28/01 6:54:00 PM
1,2,3-Trichlorobenzene	ND	23		µg/Kg-dry	1	3/28/01 6:54:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	Client Sample ID:	QB304W-FB
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	Collection Date:	3/22/01
Lab ID:	0103235-08A	Matrix:	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: JSL
Dichlorodifluoromethane	ND	5.0		µg/L	1	3/27/01 6:05:00 PM
Chloromethane	ND	5.0		µg/L	1	3/27/01 6:05:00 PM
Vinyl chloride	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Chloroethane	ND	5.0		µg/L	1	3/27/01 6:05:00 PM
Bromomethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Acetone	ND	10		µg/L	1	3/27/01 6:05:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/27/01 6:05:00 PM
Carbon disulfide	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Methylene chloride	ND	5.0		µg/L	1	3/27/01 6:05:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
2-Butanone	ND	10		µg/L	1	3/27/01 6:05:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Chloroform	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Bromochloromethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Benzene	ND	1.0		µg/L	1	3/27/01 6:05:00 PM
Trichloroethene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Dibromomethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/27/01 6:05:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/01 6:05:00 PM
Toluene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/01 6:05:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
2-Hexanone	ND	10		µg/L	1	3/27/01 6:05:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Chlorobenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W-FB
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-08A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Ethylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
m,p-Xylene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
o-Xylene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Styrene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Bromoform	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Bromobenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	3/27/01 6:05:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM
Naphthalene	ND	5.0		µg/L	1	3/27/01 6:05:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	3/27/01 6:05:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	Client Sample ID:	Trip Blank
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	Collection Date:	3/23/01
Lab ID:	0103235-09A	Matrix:	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS	**SW8260B**					**Analyst: JSL**
Dichlorodifluoromethane	ND	5.0		µg/L	1	3/27/01 5:31:00 PM
Chloromethane	ND	5.0		µg/L	1	3/27/01 5:31:00 PM
Vinyl chloride	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Chloroethane	ND	5.0		µg/L	1	3/27/01 5:31:00 PM
Bromomethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Acetone	ND	10		µg/L	1	3/27/01 5:31:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/27/01 5:31:00 PM
Carbon disulfide	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Methylene chloride	ND	5.0		µg/L	1	3/27/01 5:31:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
2-Butanone	ND	10		µg/L	1	3/27/01 5:31:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Chloroform	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Bromochloromethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Benzene	ND	1.0		µg/L	1	3/27/01 5:31:00 PM
Trichloroethene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Dibromomethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/27/01 5:31:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/01 5:31:00 PM
Toluene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/27/01 5:31:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
2-Hexanone	ND	10		µg/L	1	3/27/01 5:31:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Chlorobenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	Trip Blank
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/23/01
Lab ID:	0103235-09A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Ethylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
m,p-Xylene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
o-Xylene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Styrene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Bromoform	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Bromobenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	3/27/01 5:31:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM
Naphthalene	ND	5.0		µg/L	1	3/27/01 5:31:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	3/27/01 5:31:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (1-4')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-04A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Bis(2-chloroethyl)ether	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2-Chlorophenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
1,3-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
1,4-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Benzyl alcohol	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
2-Methylphenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
1,2-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Bis(2-chloroisopropyl)ether	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
4-Methylphenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
N-Nitrosodi-n-propylamine	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Hexachloroethane	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Nitrobenzene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Isophorone	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2,4-Dimethylphenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Benzoic acid	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
2-Nitrophenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Bis(2-chloroethoxy)methane	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2,4-Dichlorophenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Naphthalene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
4-Chloroaniline	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Hexachlorobutadiene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
4-Chloro-3-methylphenol	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
2-Methylnaphthalene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Hexachlorocyclopentadiene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2,4,6-Trichlorophenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2,4,5-Trichlorophenol	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2-Chloronaphthalene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2-Nitroaniline	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
Dimethyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2,6-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Acenaphthylene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
3-Nitroaniline	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
4-Nitrophenol	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
2,4-Dinitrophenol	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
Acenaphthene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
2,4-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (1-4')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-04A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Diethyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
4-Chlorophenyl phenyl ether	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Fluorene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
4-Nitroaniline	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
4,6-Dinitro-2-methylphenol	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
N-Nitrosodiphenylamine	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
4-Bromophenyl phenyl ether	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Hexachlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Pentachlorophenol	ND	570		µg/Kg-dry	1	3/29/01 3:19:00 PM
Phenanthrene	280	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Anthracene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Carbazole	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Di-n-butyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Fluoranthene	340	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Pyrene	350	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Butyl benzyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Bis(2-ethylhexyl)phthalate	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
3,3'-Dichlorobenzidine	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Benz(a)anthracene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Chrysene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Di-n-octyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Benzo(b)fluoranthene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Benzo(k)fluoranthene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Benzo(a)pyrene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Dibenz(a,h)anthracene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Indeno(1,2,3-cd)pyrene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM
Benzo(g,h,i)perylene	ND	280		µg/Kg-dry	1	3/29/01 3:19:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB504W (14-18')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-05A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Bis(2-chloroethyl)ether	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2-Chlorophenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
1,3-Dichlorobenzene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
1,4-Dichlorobenzene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Benzyl alcohol	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
2-Methylphenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
1,2-Dichlorobenzene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Bis(2-chloroisopropyl)ether	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
4-Methylphenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
N-Nitrosodi-n-propylamine	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Hexachloroethane	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Nitrobenzene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Isophorone	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2,4-Dimethylphenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Benzoic acid	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
2-Nitrophenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Bis(2-chloroethoxy)methane	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2,4-Dichlorophenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
1,2,4-Trichlorobenzene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Naphthalene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
4-Chloroaniline	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Hexachlorobutadiene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
4-Chloro-3-methylphenol	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
2-Methylnaphthalene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Hexachlorocyclopentadiene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2,4,6-Trichlorophenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2,4,5-Trichlorophenol	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2-Chloronaphthalene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2-Nitroaniline	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
Dimethyl phthalate	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2,6-Dinitrotoluene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Acenaphthylene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
3-Nitroaniline	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
4-Nitrophenol	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
2,4-Dinitrophenol	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
Acenaphthene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
2,4-Dinitrotoluene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT: STV Incorporated
Client Sample ID: QB304W (14-18')
Lab Order: 0103235
Project: 07-02184 East Side Access Bellmouth
Collection Date: 3/22/01
Lab ID: 0103235-05A
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Diethyl phthalate	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
4-Chlorophenyl phenyl ether	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Fluorene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
4-Nitroaniline	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
4,6-Dinitro-2-methylphenol	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
N-Nitrosodiphenylamine	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
4-Bromophenyl phenyl ether	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Hexachlorobenzene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Pentachlorophenol	ND	650		µg/Kg-dry	1	3/29/01 3:51:00 PM
Phenanthrene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Anthracene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Carbazole	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Di-n-butyl phthalate	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Fluoranthene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Pyrene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Butyl benzyl phthalate	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Bis(2-ethylhexyl)phthalate	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
3,3'-Dichlorobenzidine	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Benz(a)anthracene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Chrysene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Di-n-octyl phthalate	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Benzo(b)fluoranthene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Benzo(k)fluoranthene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Benzo(a)pyrene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Dibenz(a,h)anthracene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Indeno(1,2,3-cd)pyrene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM
Benzo(g,h,i)perylene	ND	320		µg/Kg-dry	1	3/29/01 3:51:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-304W (70-72)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/23/01
Lab ID:	0103235-06A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Bis(2-chloroethyl)ether	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2-Chlorophenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
1,3-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
1,4-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Benzyl alcohol	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
2-Methylphenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
1,2-Dichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Bis(2-chloroisopropyl)ether	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
4-Methylphenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
N-Nitrosodi-n-propylamine	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Hexachloroethane	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Nitrobenzene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Isophorone	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2,4-Dimethylphenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Benzoic acid	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
2-Nitrophenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Bis(2-chloroethoxy)methane	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2,4-Dichlorophenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
1,2,4-Trichlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Naphthalene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
4-Chloroaniline	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Hexachlorobutadiene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
4-Chloro-3-methylphenol	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
2-Methylnaphthalene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Hexachlorocyclopentadiene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2,4,6-Trichlorophenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2,4,5-Trichlorophenol	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2-Chloronaphthalene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2-Nitroaniline	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
Dimethyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2,6-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Acenaphthylene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
3-Nitroaniline	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
4-Nitrophenol	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
2,4-Dinitrophenol	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
Acenaphthene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
2,4-Dinitrotoluene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-304W (70-72)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/23/01
Lab ID:	0103235-06A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Diethyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
4-Chlorophenyl phenyl ether	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Fluorene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
4-Nitrosniline	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
4,6-Dinitro-2-methylphenol	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
N-Nitrosodiphenylamine	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
4-Bromophenyl phenyl ether	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Hexachlorobenzene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Pentachlorophenol	ND	560		µg/Kg-dry	1	3/29/01 5:26:00 PM
Phenanthrene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Anthracene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Carbazole	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Di-n-butyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Fluoranthene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Pyrene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Butyl benzyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Bis(2-ethylhexyl)phthalate	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
3,3'-Dichlorobenzidine	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Benz(a)anthracene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Chrysene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Di-n-octyl phthalate	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Benzo(b)fluoranthene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Benzo(k)fluoranthene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Benzo(a)pyrene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Dibenz(a,h)anthracene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Indeno(1,2,3-cd)pyrene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM
Benzo(g,h,i)perylene	ND	280		µg/Kg-dry	1	3/29/01 5:26:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	Client Sample ID:	QB304W-FB
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	Collection Date:	3/22/01
Lab ID:	0103235-08B	Matrix:	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/28/01 3:55:00 PM
2-Chlorophenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	3/28/01 3:55:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzyl alcohol	ND	20		µg/L	1	3/28/01 3:55:00 PM
2-Methylphenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Methylphenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/28/01 3:55:00 PM
Hexachloroethane	ND	10		µg/L	1	3/28/01 3:55:00 PM
Nitrobenzene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Isophorone	ND	10		µg/L	1	3/28/01 3:55:00 PM
2,4-Dimethylphenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzoic acid	ND	20		µg/L	1	3/28/01 3:55:00 PM
2-Nitrophenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/28/01 3:55:00 PM
2,4-Dichlorophenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Naphthalene	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Chloroaniline	ND	10		µg/L	1	3/28/01 3:55:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Chloro-3-methylphenol	ND	20		µg/L	1	3/28/01 3:55:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/28/01 3:55:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/28/01 3:55:00 PM
2-Chloronaphthalene	ND	10		µg/L	1	3/28/01 3:55:00 PM
2-Nitroaniline	ND	20		µg/L	1	3/28/01 3:55:00 PM
Dimethyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Acenaphthylene	ND	10		µg/L	1	3/28/01 3:55:00 PM
3-Nitroaniline	ND	20		µg/L	1	3/28/01 3:55:00 PM
4-Nitrophenol	ND	20		µg/L	1	3/28/01 3:55:00 PM
2,4-Dinitrophenol	ND	20		µg/L	1	3/28/01 3:55:00 PM
Acenaphthene	ND	10		µg/L	1	3/28/01 3:55:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	3/28/01 3:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W-FB
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-08B	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	3/28/01 3:55:00 PM
Diethyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/28/01 3:55:00 PM
Fluorene	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Nitroaniline	ND	20		µg/L	1	3/28/01 3:55:00 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/28/01 3:55:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/28/01 3:55:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/28/01 3:55:00 PM
Hexachlorobenzene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Pentachlorophenol	ND	20		µg/L	1	3/28/01 3:55:00 PM
Phenanthrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Anthracene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Carbazole	ND	10		µg/L	1	3/28/01 3:55:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
Fluoranthene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Pyrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benz(a)anthracene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Chrysene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(b)fluorenthene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/28/01 3:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W-FB
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-08B	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	3/28/01 3:55:00 PM
Diethyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/28/01 3:55:00 PM
Fluorene	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Nitroaniline	ND	20		µg/L	1	3/28/01 3:55:00 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/28/01 3:55:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/28/01 3:55:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	3/28/01 3:55:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/28/01 3:55:00 PM
Hexachlorobenzene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Pentachlorophenol	ND	20		µg/L	1	3/28/01 3:55:00 PM
Phenanthrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Anthracene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Carbazole	ND	10		µg/L	1	3/28/01 3:55:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
Fluoranthene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Pyrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benz(a)anthracene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Chrysene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/28/01 3:55:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/28/01 3:55:00 PM

Qualifiers:

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- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (1-4')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-04C	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082		SW8082				Analyst: RAP
Aroclor 1016	ND	28		µg/Kg-dry	1	3/28/01 7:08:00 PM
Aroclor 1221	ND	28		µg/Kg-dry	1	3/28/01 7:08:00 PM
Aroclor 1232	ND	28		µg/Kg-dry	1	3/28/01 7:08:00 PM
Aroclor 1242	ND	28		µg/Kg-dry	1	3/28/01 7:08:00 PM
Aroclor 1248	ND	28		µg/Kg-dry	1	3/28/01 7:08:00 PM
Aroclor 1254	ND	28		µg/Kg-dry	1	3/28/01 7:08:00 PM
Aroclor 1260	ND	28		µg/Kg-dry	1	3/28/01 7:08:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB304W (14-18')
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/22/01
Lab ID:	0103235-05A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082		**SW8082**				Analyst: RAP
Aroclor 1016	ND	33		µg/Kg-dry	1	3/28/01 7:35:00 PM
Aroclor 1221	ND	33		µg/Kg-dry	1	3/28/01 7:35:00 PM
Aroclor 1232	ND	33		µg/Kg-dry	1	3/28/01 7:35:00 PM
Aroclor 1242	ND	33		µg/Kg-dry	1	3/28/01 7:35:00 PM
Aroclor 1248	ND	33		µg/Kg-dry	1	3/28/01 7:35:00 PM
Aroclor 1254	ND	33		µg/Kg-dry	1	3/28/01 7:35:00 PM
Aroclor 1260	ND	33		µg/Kg-dry	1	3/28/01 7:35:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *31-Mar-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB-304W (65-67)
Lab Order:	0103235		
Project:	07-02184 East Side Access Bellmouth	**Collection Date:**	3/23/01
Lab ID:	0103235-07A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PCBS BY EPA8082	**SW8082**					Analyst: RAP
Aroclor 1016	ND	30		µg/Kg-dry	1	3/28/01 8:01:00 PM
Aroclor 1221	ND	30		µg/Kg-dry	1	3/28/01 8:01:00 PM
Aroclor 1232	ND	30		µg/Kg-dry	1	3/28/01 8:01:00 PM
Aroclor 1242	ND	30		µg/Kg-dry	1	3/28/01 8:01:00 PM
Aroclor 1248	ND	30		µg/Kg-dry	1	3/28/01 8:01:00 PM
Aroclor 1254	ND	30		µg/Kg-dry	1	3/28/01 8:01:00 PM
Aroclor 1260	ND	30		µg/Kg-dry	1	3/28/01 8:01:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Lab Order: 0103235
Client: STV Incorporated
Project: 07-02184 East Side Access Bellmo

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0103235-01A	QB304W (2')	3/22/01	Soil	Percent Moisture			3/26/01
				VOLATILES by GC/MS, Bulk Soil		3/22/01	3/28/01
0103235-02A	QB304W (15')			Percent Moisture			3/26/01
				VOLATILES by GC/MS, Bulk Soil		3/22/01	3/28/01
0103235-03A	QB304W (72)	3/23/01		Percent Moisture			3/26/01
				VOLATILES by GC/MS, Bulk Soil		3/23/01	3/28/01
0103235-04A	QB304W (1-4')	3/22/01		Percent Moisture			3/26/01
				SEMIVOLATILE ORGANICS, Soil/Solids		3/28/01	3/29/01
0103235-04B				ICP METALS, TCLP	3/28/01	3/29/01	3/30/01
				MERCURY, TCLP	3/28/01	3/30/01	3/30/01
0103235-04C				PCBS IN SOIL/SOLIDS		3/27/01	3/28/01
0103235-05A	QB304W (14-18')			PCBS IN SOIL/SOLIDS		3/27/01	3/28/01
				Percent Moisture			3/26/01
				SEMIVOLATILE ORGANICS, Soil/Solids		3/28/01	3/29/01
0103235-05B				ICP METALS, TCLP	3/28/01	3/29/01	3/30/01
				MERCURY, TCLP	3/28/01	3/30/01	3/30/01
0103235-06A	QB-304W (70-72)	3/23/01		Percent Moisture			3/26/01
				SEMIVOLATILE ORGANICS, Soil/Solids		3/28/01	3/29/01
0103235-07A	QB-304W (65-67)			PCBS IN SOIL/SOLIDS		3/27/01	3/28/01
				Percent Moisture			3/26/01
0103235-07B				ICP METALS, TCLP	3/28/01	3/29/01	3/30/01
				MERCURY, TCLP	3/28/01	3/30/01	3/30/01
0103235-08A	QB304W-FB	3/22/01	Aqueous	VOLATILES by GC/MS		3/23/01	3/27/01
0103235-08B				SEMIVOLATILE ORGANICS, Aqueous		3/27/01	3/28/01
0103235-09A	Trip Blank	3/23/01		VOLATILES by GC/MS		3/23/01	3/27/01

AMRO Environmental Laboratories Corporation

SAMPLE RECEIPT CHECKLIST

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

Client: STV
Project Name: 07-02184 ESA-Bellmouth
Ship via: (circle one) Fed Ex. UPS, AMRC Courier.
Hand Del., Other Courier. Other:

AMRO ID: 0103235
Date Rec.: 3-26-01
Date Due: 4-5-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1 Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓			
5. Is COC included with samples?	✓			
6. Is COC signed and dated by client?		✓		
7. Laboratory receipt temperature. TEMP = 3.5				
Samples rec. with ice ✓ ice packs ___ neither ___				
8. Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?	✓			
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓			
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓			
13. Were all samples properly preserved?				
14. Were proper sample containers used?	✓			
15. Were all samples received intact? (none broken or leaking)		✓		1 vial (08A) broken, 1 jar (05) broken for PCB → 1 added for SVOC
16. Were VOA vials rec. with no air bubbles?	✓			
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:			✓	
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis.				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?	✓			
Client Log?		✓		
Composite Log?			✓	
Filtration Log?			✓	

Received By: MG Date: 3-26-01 Logged in By: QC Date: 3-26-01
Labeled By: QC Date: 3-26-01 Checked By: Date:

NA= Not Applicable

AMRO Environmental
Laboratories Corporation

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

Please Circle if:
Sample= Soil
Sample= Waste

Sample ID	Analysis	Volume Sample	Preserv. Listed	Initial pH	Acceptable? Y or N	List Preserv. Added by AMRO	Solution ID # of Preserv.	Volume Preservative Added	Final adjusted pH
08A	VOC	2x44ml	HCl	—	—				
08B	SVOC	1x1LA	—	5	Y				
09A	VOC	2x44ml	HCl	—	—				

pH Checked By: CC Date: 6-26-01 pH adjusted By: Date:

Al Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-C ODY RECORD

38001

Office: (603) -2022
Fax: (603) -8496

Project No.: 07-02184	Project Name: ESA - Bellmouth	Project Manager: CV	Samplers (Signature):	AMRO Project No.: 0103235
	Project State: NY			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W, WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Analysis Required: TCL 2oz VOCs	TCL 8oz SVOCs	TCL 4oz PCBs	8oz TCLP metals	Remarks
	3/22/01							
QB304W (2')	0845	S	G	✓				
QB304W (1-4')	0847	S			✓			
QB304W (1-4')	0849	S				✓		
QB304W (1-4')	0852	S					✓	
QB304W (15')	0910	S		✓				
QB304W (14-18')	0925	S			✓			
QB304W (14-18')	0927	S				✓		
QB304W (14-18')	0929	S					✓	
QB304W-FB	1100	Aqueous	(3) 40 mlG	✓				
QB304W-FB	1100	Aqueous	(1) 1 Liter G	✓				

Preservative: C-HCl, M-MeOH, N-HNO3, S-H2SO4, Na-NaOH, O- Other
Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

FAX No.:

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

Send Results To: Pamela Delevich
ESA Inc.
225 Park Ave South
NY, NY 10003

Relinquished By	Date/ Time	Received By	Date/Time
			8:44 3-26-01

Seal Intact? Yes No N/A

P.O. No:

Results Needed By:

GW-1 GW-2 GW-3

MCP Level Needed:

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER
AUTHORIZATION No. BY:

SHEET OF

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

APR 02 2001 17:00
APR. 2. 2001 4:05PM
PAGE.39

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

38043

Office: (603) 424-2022
Fax: (603) 429-8496

Project No.: 07-02184	Project Name: LESA - Bellmouth	Project Manager: CV	Samplers (Signature): Rebecca Cammon, Chris Clark	AMRO Project No.: 0103235
	Project State:			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Analysis Required: TCL VOCs 8021	TCL SVOCs 8021	TCL PCBs 4021	TAL Metals 6/21	Remarks
QB-304W (72)	3/23/01 1435	S	G	✓				
QB-304W (70-72)	3/23/01 1440	S	G		✓			
QB-304W (65-67)	3/23/01 1443	S	G			✓		
QB-304W (65-67)	3/23/01 1447	S	G				✓	

Preservative: Cl-HCl, McOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time-clock will not start until any ambiguities are resolved.

FAX No.:

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

Send Results To: Pamela Oelerich STV Inc
225 Park Ave 5th 5th Floor
New York, NY 10003

Seal Intact? Yes No N/A

GW-1 ___ GW-2 ___ GW-3 ___

MCP Level Needed: ___

P.O. No:

Results Needed By:

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER
AUTHORIZATION No. ___ BY: ___

SHEET ___ OF ___

Relinquished By	Date/ Time	Received By	Date/Time
		[signature]	3-26-01 8:45

White: Lab Copy — Yellow: Accompanies Report — Pink: C' Copy

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DPR 03 2001 17:00

PAGE.40

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

June 21, 2001

Jeff Butler
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX:

RE: 02184 ESA Order No.: 0106166

Dear Jeff Butler:

AMRO Environmental Laboratories Corp. received 5 samples on 6/14/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of \\ pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

for Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *21-Jun-01*

CLIENT: STV Incorporated
Project: 02184 ESA
Lab Order: 0106166
Date Received: 6/14/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0106166-01A	TE-1A-B-1	6/13/01
0106166-02A	TE-1A-B-2	6/13/01
0106166-03A	TE-1A-B-3	6/13/01
0106166-04A	TE-1A-B-4	6/13/01
0106166-05A	TE-1A-B-5	6/13/01

AMRO Environmental Laboratories Corp.

Date: *21-Jun-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	TE-1A-B-1
Lab Order:	0106166		
Project:	02184 ESA	**Collection Date:**	6/13/01
Lab ID:	0106166-01A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
Lead	ND	1.0		mg/L	1	6/21/01 11:36:52 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *21-Jun-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	TE-1A-B-2
Lab Order:	0106166		
Project:	02184 ESA	**Collection Date:**	6/13/01
Lab ID:	0106166-02A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
Lead	ND	1.0		mg/L	1	6/21/01 11:40:22 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *21-Jun-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	TE-1A-B-3
Lab Order:	0106166		
Project:	02184 ESA	**Collection Date:**	6/13/01
Lab ID:	0106166-03A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: RK
Lead	ND	1.0		mg/L	1	6/21/01 11:51:12 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *21-Jun-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	TE-1A-B-4
Lab Order:	0106166		
Project:	02184 ESA	**Collection Date:**	6/13/01
Lab ID:	0106166-04A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
Lead	ND	1.0		mg/L	1	6/21/01 11:54:43 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *21-Jun-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	TE-1A-B-5
Lab Order:	0106166		
Project:	02184 ESA	**Collection Date:**	6/13/01
Lab ID:	0106166-05A	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS, TCLP LEACHED		**SW1311/6010B**				Analyst: **RK**
Lead	2.7	1.0		mg/L	1	6/21/01 11:58:13 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

H - Method prescribed holding time exceeded

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

- See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Lab Order: 0106166
Client: STV Incorporated
Project: 02184 ESA

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0106166-01A	TE-1A-B-1	6/13/01	Soil	ICP METALS, TCLP	6/19/01	6/20/01	6/21/01
0106166-02A	TE-1A-B-2			ICP METALS, TCLP	6/19/01	6/20/01	6/21/01
0106166-03A	TE-1A-B-3			ICP METALS, TCLP	6/19/01	6/20/01	6/21/01
0106166-04A	TE-1A-B-4			ICP METALS, TCLP	6/19/01	6/20/01	6/21/01
0106166-05A	TE-1A-B-5			ICP METALS, TCLP	6/19/01	6/20/01	6/21/01

JUN 13 '01 15:40 FR

STV Environmental

Facsimile Transmission

Date: 6/13/01

To: Sample Receiving

Firm Name: Amro

Dept.:

FAX No.: 617-469-5132

No. of Pages: *(including cover page)*: 1

From: Hal Newell

Title: Project Geologist

Dept.:

Project: TAT request

Proj. No.:

Recipient: If you have any questions when you receive this, please call me at: 212-614-3448

Comments:

I am writing in reference to the soil samples collected and submitted to your laboratory on June 13, 2000. I would like to request a 5 Day turn-around-time for the five soil samples to analyzed for TCLP Lead.

Please call me if you have any questions.

Thank you,

Hal Newell

225 Park Avenue South, New York, NY 10003 Tel: 212/777-4400 FAX: 212/529-5237

*** TOTAL PAGE.01 ***

AMRO Environmental Laboratories Corporation

SAMPLE RECEIPT CHECKLIST

111 Herrick Street
Merrimack, NH 03054
~~(603) 424-2022~~

Client: STL
Project Name: 02184-ESA
Ship via: (circle one) Fed Ex, UPS, AMRO Courier, nd Del., Other Courier. Other:

AMRO ID: 0106166
Date Rec.: 6-14-01
Date Due: 6-21-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			✓	Individual Plastic Bags.
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓			
5. Is COC included with samples?	✓			
6. Is COC signed and dated by client?	✓			
7. Laboratory receipt temperature. TEMP = 4°	✓			
Samples rec. with ice ✓ ice packs ___ neither ___				
8. Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?				
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓			
10. Does the info on the COC match the samples?	✓	✓		2-802 jars with ID: TE-1A-B-3 but different Time
11. Were samples rec. within holding time?	✓	✓		
12. Were all samples properly labeled?	✓	✓		
13. Were all samples properly preserved?	✓			
14. Were proper sample containers used?	✓			
15. Were all samples received intact? (none broken or leaking)	✓			
16. Were VOA vials rec. with no air bubbles?			✓	
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:			✓	
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?			✓	
Client Log?			✓	
Composite Log?			✓	
Filtration Log?			✓	

Received By: MG Date: 6-14-01 Logged in By: MG Date: 6-14-01
Labeled By: MG Date: 6-14-01 Checked By: [signature] Date: 6-15-01

NA= Not Applicable

AMRO Environmental Laboratories Corporation
111 H k Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

40234

Fax: (603) 8496

Project No.: 02189	Project Name: ESA	Project Manager:	Samplers (Signature): Pamela Oelrich	AMRO Project No.: 0106166
	Project State:			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W., WW= Waste W., DW= Drinking W., O= Oil, Other= Specify)	Total # of Cont. & Size	Analysis Required: TCLP lead	Remarks
TE-1A-B-1	6/13 900	S	1X 802,	✓	
~~TE-1A-B-2~~	~~925~~	~~S~~	1X 402		
TE-1A-B-2	6/13 925	S	1X 802 1X 402	✓	
TE-1A-B-3	6/13 945	S	1X 802	✓	
TE-1A-B-4	1003	S	1X 402 same	✓	
TE-1A-B-~~4~~5	1020	S	Same	✓	

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

FAX No.:

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

Send Results To: Jeff Butler
225 Park Avenue South
NY New York 10003

Seal Intact? Yes No N/A

GW-1 GW-2 GW-3

MCP Level Needed:

P.O. No:

Results Needed By:

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER
AUTHORIZATION No. BY:

Relinquished By	Date/ Time	Received By	Date/Time
Pamela Oelrich	6/13 1145		6-14-01 9:30

SHEET 1 OF 1

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

APPENDIX E

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

FAX TRANSMITTAL FORM

DATE: 4/25/01

TO: Pam Oelerich

FROM: Denise

FAX #: 212-529-5237

Number of Pages including cover sheet: _____

Comments:

Results for Amro # 104115

CONFIDENTIALITY NOTICE

This facsimile transmission (and /or documents accompanying it) may contain confidential information belonging to the sender. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, you are hereby notified that any disclosure, distribution, copying or taking in reliance on the contents of this information is strictly prohibited. If you have this transmission in error, please immediately notify us by telephone to arrange for return of the documents.

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

April 25, 2001

Pam Oelerich
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX: (212) 529-5237

RE: 0702184 East Side Access Bellmouth Order No.: 0104115

Dear Pam Oelerich:

AMRO Environmental Laboratories Corp. received 2 samples on 4/11/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of ____ pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Project: 0702184 East Side Access Bellmouth
Lab Order: 0104115
Date Received: 4/11/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0104115-01A	QB 305W	4/9/01
0104115-01B	QB 305W	4/9/01
0104115-01C	QB 305W	4/9/01
0104115-01D	QB 305W	4/9/01
0104115-02A	QB 304W	4/9/01
0104115-02B	QB 304W	4/9/01
0104115-02C	QB 304W	4/9/01
0104115-02D	QB 304W	4/9/01

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Project: 0702184 East Side Access Bellmouth
Lab Order: 0104115

CASE NARRATIVE

GENERAL

1. Both samples for Dissolved Metals were filtered and preserved in the laboratory at the client's request.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT: STV Incorporated
Client Sample ID: QB 305W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-01C
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846		**SW6010B**				Analyst: REB
Aluminum	410	200		µg/L	1	4/20/01 10:24:55 AM
Antimony	ND	20		µg/L	1	4/20/01 10:24:55 AM
Barium	ND	200		µg/L	1	4/20/01 10:24:55 AM
Beryllium	ND	5.0		µg/L	1	4/20/01 10:24:55 AM
Cadmium	ND	5.0		µg/L	1	4/20/01 10:24:55 AM
Calcium	45,000	2,500		µg/L	1	4/20/01 10:24:55 AM
Chromium	ND	10		µg/L	1	4/20/01 10:24:55 AM
Cobalt	ND	50		µg/L	1	4/20/01 10:24:55 AM
Copper	ND	25		µg/L	1	4/20/01 10:24:55 AM
Iron	600	100		µg/L	1	4/20/01 10:24:55 AM
Magnesium	21,000	2,500		µg/L	1	4/20/01 10:24:55 AM
Manganese	69	15		µg/L	1	4/20/01 10:24:55 AM
Nickel	ND	40		µg/L	1	4/20/01 10:24:55 AM
Potassium	10,000	2,500		µg/L	1	4/20/01 2:06:25 PM
Silver	ND	7.0		µg/L	1	4/20/01 10:24:55 AM
Sodium	47,000	2,500		µg/L	1	4/20/01 2:06:25 PM
Vanadium	ND	50		µg/L	1	4/20/01 10:24:55 AM
Zinc	27	20		µg/L	1	4/20/01 10:24:55 AM
ARSENIC, TOTAL		**SW7060A**				Analyst: APL
Arsenic	ND	5.0		µg/L	1	4/20/01
MERCURY, TOTAL		**SW7470A**				Analyst: MT
Mercury	ND	0.20		µg/L	1	4/17/01
LEAD, TOTAL		**SW7421**				Analyst: APL
Lead	5.1	5.0		µg/L	1	4/20/01
SELENIUM, TOTAL		**SW7740**				Analyst: APL
Selenium	ND	5.0		µg/L	1	4/20/01
THALLIUM, TOTAL		**SW7841**				Analyst: APL
Thallium	ND	5.0		µg/L	1	4/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT:	STV Incorporated	Client Sample ID:	QB 305W
Lab Order:	0104115		
Project:	0702184 East Side Access Bellmouth	Collection Date:	4/9/01
Lab ID:	0104115-01D	Matrix:	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS DISSOLVED SW-846		**SW6010B**				Analyst: REB
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Aluminum	ND	200		µg/L	1	4/20/01 10:47:59 AM
Antimony	ND	20		µg/L	1	4/20/01 10:47:59 AM
Barium	ND	200		µg/L	1	4/20/01 10:47:59 AM
Beryllium	ND	5.0		µg/L	1	4/20/01 10:47:59 AM
Cadmium	ND	5.0		µg/L	1	4/20/01 10:47:59 AM
Calcium	39,000	2,500		µg/L	1	4/20/01 10:47:59 AM
Chromium	ND	10		µg/L	1	4/20/01 10:47:59 AM
Cobalt	ND	50		µg/L	1	4/20/01 10:47:59 AM
Copper	ND	25		µg/L	1	4/20/01 10:47:59 AM
Iron	ND	100		µg/L	1	4/20/01 10:47:59 AM
Magnesium	20,000	2,500		µg/L	1	4/20/01 10:47:59 AM
Manganese	39	15		µg/L	1	4/20/01 10:47:59 AM
Nickel	ND	40		µg/L	1	4/20/01 10:47:59 AM
Potassium	9,600	2,500		µg/L	1	4/20/01 2:23:47 PM
Silver	ND	7.0		µg/L	1	4/20/01 10:47:59 AM
Sodium	45,000	2,500		µg/L	1	4/20/01 2:23:47 PM
Vanadium	ND	50		µg/L	1	4/20/01 10:47:59 AM
Zinc	35	20		µg/L	1	4/20/01 10:47:59 AM
ARSENIC, DISSOLVED		**SW7060A**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Arsenic	ND	5.0		µg/L	1	4/20/01
MERCURY, DISSOLVED		**SW7470A**				Analyst: MT
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Mercury	ND	0.20		µg/L	1	4/17/01
LEAD, DISSOLVED		**SW7421**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Lead	ND	5.0		µg/L	1	4/20/01
SELENIUM, DISSOLVED		**SW7740**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Selenium	ND	5.0		µg/L	1	4/20/01
THALLIUM, DISSOLVED		**SW7841**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Thallium	ND	5.0		µg/L	1	4/20/01

Qualifiers:

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- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 304W
Lab Order:	0104115		
Project:	0702184 East Side Access Bellmouth	**Collection Date:**	4/9/01
Lab ID:	0104115-02C	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846		**SW6010B**				Analyst: REB
Aluminum	540	200		µg/L	1	4/20/01 10:52:34 AM
Antimony	ND	20		µg/L	1	4/20/01 10:52:34 AM
Barium	ND	200		µg/L	1	4/20/01 10:52:34 AM
Beryllium	ND	5.0		µg/L	1	4/20/01 10:52:34 AM
Cadmium	ND	5.0		µg/L	1	4/20/01 10:52:34 AM
Calcium	100,000	2,500		µg/L	1	4/20/01 10:52:34 AM
Chromium	ND	10		µg/L	1	4/20/01 10:52:34 AM
Cobalt	ND	50		µg/L	1	4/20/01 10:52:34 AM
Copper	ND	25		µg/L	1	4/20/01 10:52:34 AM
Iron	740	100		µg/L	1	4/20/01 10:52:34 AM
Magnesium	4,000	2,500		µg/L	1	4/20/01 10:52:34 AM
Manganese	16	15		µg/L	1	4/20/01 10:52:34 AM
Nickel	ND	40		µg/L	1	4/20/01 10:52:34 AM
Potassium	32,000	2,500		µg/L	1	4/20/01 2:27:16 PM
Silver	ND	7.0		µg/L	1	4/20/01 10:52:34 AM
Sodium	34,000	2,500		µg/L	1	4/20/01 2:27:16 PM
Vanadium	ND	50		µg/L	1	4/20/01 10:52:34 AM
Zinc	53	20		µg/L	1	4/20/01 10:52:34 AM
ARSENIC, TOTAL		**SW7060A**				Analyst: APL
Arsenic	ND	5.0		µg/L	1	4/20/01
MERCURY, TOTAL		**SW7470A**				Analyst: MT
Mercury	ND	0.20		µg/L	1	4/17/01
LEAD, TOTAL		**SW7421**				Analyst: APL
Lead	9.1	5.0		µg/L	1	4/20/01
SELENIUM, TOTAL		**SW7740**				Analyst: APL
Selenium	ND	5.0		µg/L	1	4/20/01
THALLIUM, TOTAL		**SW7841**				Analyst: APL
Thallium	ND	5.0		µg/L	1	4/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 304W
Lab Order:	0104115		
Project:	0702184 East Side Access Bellmouth	**Collection Date:**	4/9/01
Lab ID:	0104115-02D	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS DISSOLVED SW-846		**SW6010B**				Analyst: REB
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Aluminum	ND	200		µg/L	1	4/20/01 11:05:18 AM
Antimony	ND	20		µg/L	1	4/20/01 11:05:18 AM
Barium	ND	200		µg/L	1	4/20/01 11:05:18 AM
Beryllium	ND	5.0		µg/L	1	4/20/01 11:05:18 AM
Cadmium	ND	5.0		µg/L	1	4/20/01 11:05:18 AM
Calcium	65,000	2,500		µg/L	1	4/20/01 11:05:18 AM
Chromium	ND	10		µg/L	1	4/20/01 11:05:18 AM
Cobalt	ND	50		µg/L	1	4/20/01 11:05:18 AM
Copper	ND	25		µg/L	1	4/20/01 11:05:18 AM
Iron	ND	100		µg/L	1	4/20/01 11:05:18 AM
Magnesium	ND	2,500		µg/L	1	4/20/01 11:05:18 AM
Manganese	ND	15		µg/L	1	4/20/01 11:05:18 AM
Nickel	ND	40		µg/L	1	4/20/01 11:05:18 AM
Potassium	30,000	2,500		µg/L	1	4/20/01 2:36:26 PM
Silver	ND	7.0		µg/L	1	4/20/01 11:05:18 AM
Sodium	28,000	2,500		µg/L	1	4/20/01 2:36:26 PM
Thallium	ND	25		µg/L	1	4/20/01 11:05:18 AM
Vanadium	ND	50		µg/L	1	4/20/01 11:05:18 AM
Zinc	ND	20		µg/L	1	4/20/01 11:05:18 AM
ARSENIC, DISSOLVED		**SW7060A**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Arsenic	ND	5.0		µg/L	1	4/20/01
MERCURY, DISSOLVED		**SW7470A**				Analyst: MT
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Mercury	ND	0.20		µg/L	1	4/19/01
LEAD, DISSOLVED		**SW7421**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Lead	ND	5.0		µg/L	1	4/20/01
SELENIUM, DISSOLVED		**SW7740**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Selenium	ND	5.0		µg/L	1	4/20/01
THALLIUM, DISSOLVED		**SW7841**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details ****						
Thallium	ND	5.0		µg/L	1	4/20/01

Qualifiers:

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- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- ff - See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT: STV Incorporated
Client Sample ID: QB 305W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-01A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS	**SW8260B**					Analyst: JSL
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/18/01 1:17:00 AM
Chloromethane	ND	5.0		µg/L	1	4/18/01 1:17:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Chloroethane	ND	5.0		µg/L	1	4/18/01 1:17:00 AM
Bromomethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Acetone	ND	10		µg/L	1	4/18/01 1:17:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/18/01 1:17:00 AM
Carbon disulfide	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Methylene chloride	ND	5.0		µg/L	1	4/18/01 1:17:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
2-Butanone	ND	10		µg/L	1	4/18/01 1:17:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Chloroform	9.9	2.0		µg/L	1	4/18/01 1:17:00 AM
Bromochloromethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Benzene	ND	1.0		µg/L	1	4/18/01 1:17:00 AM
Trichloroethene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Dibromomethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/18/01 1:17:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/18/01 1:17:00 AM
Toluene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/18/01 1:17:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
2-Hexanone	ND	10		µg/L	1	4/18/01 1:17:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Dibromochloromethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Chlorobenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 305W
Lab Order:	0104115		
Project:	0702184 East Side Access Bellmouth	**Collection Date:**	4/9/01
Lab ID:	0104115-01A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Ethylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
m,p-Xylene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
o-Xylene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Styrene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Bromoform	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Bromobenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/18/01 1:17:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM
Naphthalene	ND	5.0		µg/L	1	4/18/01 1:17:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:17:00 AM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT: STV Incorporated
Client Sample ID: QB 304W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-02A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: JSL
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/18/01 1:51:00 AM
Chloromethane	ND	5.0		µg/L	1	4/18/01 1:51:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Chloroethane	ND	5.0		µg/L	1	4/18/01 1:51:00 AM
Bromomethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Acetone	50	10		µg/L	1	4/18/01 1:51:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/18/01 1:51:00 AM
Carbon disulfide	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Methylene chloride	ND	5.0		µg/L	1	4/18/01 1:51:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
2-Butanone	ND	10		µg/L	1	4/18/01 1:51:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Chloroform	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Bromochloromethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Benzene	ND	1.0		µg/L	1	4/18/01 1:51:00 AM
Trichloroethene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Dibromomethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/18/01 1:51:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/18/01 1:51:00 AM
Toluene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/18/01 1:51:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
2-Hexanone	ND	10		µg/L	1	4/18/01 1:51:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Dibromochloromethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Chlorobenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 25-Apr-01

CLIENT: STV Incorporated
Client Sample ID: QB 304W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-02A
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Ethylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
m,p-Xylene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
o-Xylene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Styrene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Bromoform	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Bromobenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/18/01 1:51:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM
Naphthalene	ND	5.0		µg/L	1	4/18/01 1:51:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/18/01 1:51:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: QB 305W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-01B
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS	**SW8270C**					Analyst: KD
Phenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	4/18/01 6:55:00 PM
2-Chlorophenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	4/18/01 6:55:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Benzyl alcohol	ND	20		µg/L	1	4/18/01 6:55:00 PM
2-Methylphenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	4/18/01 6:55:00 PM
4-Methylphenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/18/01 6:55:00 PM
Hexachloroethane	ND	10		µg/L	1	4/18/01 6:55:00 PM
Nitrobenzene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Isophorone	ND	10		µg/L	1	4/18/01 6:55:00 PM
2,4-Dimethylphenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
Benzoic acid	ND	20		µg/L	1	4/18/01 6:55:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/18/01 6:55:00 PM
2,4-Dichlorophenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Naphthalene	ND	10		µg/L	1	4/18/01 6:55:00 PM
4-Chloroaniline	ND	10		µg/L	1	4/18/01 6:55:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	4/18/01 6:55:00 PM
4-Chloro-3-methylphenol	ND	20		µg/L	1	4/18/01 6:55:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/18/01 6:55:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/18/01 6:55:00 PM
2-Chloronaphthalene	ND	10		µg/L	1	4/18/01 6:55:00 PM
2-Nitroaniline	ND	20		µg/L	1	4/18/01 6:55:00 PM
Dimethyl phthalate	ND	10		µg/L	1	4/18/01 6:55:00 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Acenaphthylene	ND	10		µg/L	1	4/18/01 6:55:00 PM
3-Nitroaniline	ND	20		µg/L	1	4/18/01 6:55:00 PM
4-Nitrophenol	ND	20		µg/L	1	4/18/01 6:55:00 PM
2,4-Dinitrophenol	ND	20		µg/L	1	4/18/01 6:55:00 PM
Acenaphthene	ND	10		µg/L	1	4/18/01 6:55:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	4/18/01 6:55:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: QB 305W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-01B
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	4/18/01 6:55:00 PM
Diethyl phthalate	ND	10		µg/L	1	4/18/01 6:55:00 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	4/18/01 6:55:00 PM
Fluorene	ND	10		µg/L	1	4/18/01 6:55:00 PM
4-Nitroaniline	ND	20		µg/L	1	4/18/01 6:55:00 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	4/18/01 6:55:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/18/01 6:55:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	4/18/01 6:55:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/18/01 6:55:00 PM
Hexachlorobenzene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Pentachlorophenol	21	20		µg/L	1	4/18/01 6:55:00 PM
Phenanthrene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Anthracene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Carbazole	ND	10		µg/L	1	4/18/01 6:55:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	4/18/01 6:55:00 PM
Fluoranthene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Pyrene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	4/18/01 6:55:00 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	4/18/01 6:55:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	4/18/01 6:55:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Chrysene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	4/18/01 6:55:00 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/18/01 6:55:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/18/01 6:55:00 PM

Qualifiers:
- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
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- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: QB 304W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-02B
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	4/18/01 7:25:00 PM
2-Chlorophenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	4/18/01 7:25:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Benzyl alcohol	ND	20		µg/L	1	4/18/01 7:25:00 PM
2-Methylphenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	4/18/01 7:25:00 PM
4-Methylphenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/18/01 7:25:00 PM
Hexachloroethane	ND	10		µg/L	1	4/18/01 7:25:00 PM
Nitrobenzene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Isophorone	ND	10		µg/L	1	4/18/01 7:25:00 PM
2,4-Dimethylphenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
Benzoic acid	ND	20		µg/L	1	4/18/01 7:25:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/18/01 7:25:00 PM
2,4-Dichlorophenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Naphthalene	ND	10		µg/L	1	4/18/01 7:25:00 PM
4-Chloroaniline	ND	10		µg/L	1	4/18/01 7:25:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	4/18/01 7:25:00 PM
4-Chloro-3-methylphenol	ND	20		µg/L	1	4/18/01 7:25:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/18/01 7:25:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/18/01 7:25:00 PM
2-Chloronaphthalene	ND	10		µg/L	1	4/18/01 7:25:00 PM
2-Nitroaniline	ND	20		µg/L	1	4/18/01 7:25:00 PM
Dimethyl phthalate	ND	10		µg/L	1	4/18/01 7:25:00 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Acenaphthylene	ND	10		µg/L	1	4/18/01 7:25:00 PM
3-Nitroaniline	ND	20		µg/L	1	4/18/01 7:25:00 PM
4-Nitrophenol	ND	20		µg/L	1	4/18/01 7:25:00 PM
2,4-Dinitrophenol	ND	20		µg/L	1	4/18/01 7:25:00 PM
Acenaphthene	ND	10		µg/L	1	4/18/01 7:25:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	4/18/01 7:25:00 PM

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
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E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: QB-304W
Lab Order: 0104115
Project: 0702184 East Side Access Bellmouth
Collection Date: 4/9/01
Lab ID: 0104115-02B
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	4/18/01 7:25:00 PM
Diethyl phthalate	ND	10		µg/L	1	4/18/01 7:25:00 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	4/18/01 7:25:00 PM
Fluorene	ND	10		µg/L	1	4/18/01 7:25:00 PM
4-Nitroaniline	ND	20		µg/L	1	4/18/01 7:25:00 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	4/18/01 7:25:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/18/01 7:25:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	4/18/01 7:25:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/18/01 7:25:00 PM
Hexachlorobenzene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Pentachlorophenol	ND	20		µg/L	1	4/18/01 7:25:00 PM
Phenanthrene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Anthracene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Carbazole	ND	10		µg/L	1	4/18/01 7:25:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	4/18/01 7:25:00 PM
Fluoranthene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Pyrene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	4/18/01 7:25:00 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	4/18/01 7:25:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	4/18/01 7:25:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Chrysene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	4/18/01 7:25:00 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/18/01 7:25:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/18/01 7:25:00 PM

Qualifiers:

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AMRO Environmental Laboratories Corp.

25-Apr-01

Lab Order: 0104115
Client: STV Incorporated
Project: 0702184 East Side Access Bellmo

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0104115-01A	QB 305W	4/9/01	Groundwater	VOLATILES by GC/MS		4/17/01	4/18/01
0104115-01B				SEMIVOLATILE ORGANICS, Aqueous		4/16/01	4/18/01
0104115-01C				ARSENIC, Total		4/19/01	4/20/01
				ICP METALS, TOTAL		4/19/01	4/20/01
				ICP METALS, TOTAL		4/19/01	4/20/01
				LEAD, Total		4/19/01	4/20/01
				MERCURY, Total		4/17/01	4/17/01
				SELENIUM, Total		4/19/01	4/20/01
				THALLIUM, Total		4/19/01	4/20/01
0104115-01D				ARSENIC, Dissolved		4/19/01	4/20/01
				ICP METALS, DISSOLVED		4/19/01	4/20/01
				ICP METALS, DISSOLVED		4/19/01	4/20/01
				LEAD, Dissolved		4/19/01	4/20/01
				MERCURY, Dissolved		4/17/01	4/17/01
				SELENIUM, Dissolved		4/19/01	4/20/01
				THALLIUM, Dissolved		4/19/01	4/20/01
0104115-02A	QB 304W			VOLATILES by GC/MS		4/17/01	4/18/01
0104115-02B				SEMIVOLATILE ORGANICS, Aqueous		4/16/01	4/18/01
0104115-02C				ARSENIC, Total		4/19/01	4/20/01
				ICP METALS, TOTAL		4/19/01	4/20/01
				ICP METALS, TOTAL		4/19/01	4/20/01
				LEAD, Total		4/19/01	4/20/01
				MERCURY, Total		4/17/01	4/17/01
				SELENIUM, Total		4/19/01	4/20/01
				THALLIUM, Total		4/19/01	4/20/01
0104115-02D				ARSENIC, Dissolved		4/19/01	4/20/01
				ICP METALS, DISSOLVED		4/19/01	4/20/01
				ICP METALS, DISSOLVED		4/19/01	4/20/01

AMRO Environmental Laboratories Corp.

25-Apr-01

Lab Order: 0104115
Client: STV Incorporated
Project: 0702184 East Side Access Bellmo

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0104115-02D	QB 304W	4/9/01	Groundwater	LEAD, Dissolved		4/19/01	4/20/01
				MERCURY, Dissolved		4/19/01	4/19/01
				SELENIUM, Dissolved		4/19/01	4/20/01
				THALLIUM, Dissolved		4/19/01	4/20/01

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

SAMPLE RECEIPT CHECKLIST

Client: AN CLV STV
Project Name: East Access
Ship via: (circle one) Fed Ex. UPS. AMRO Courier. land Del., Other Courier, Other:

AMRO ID: D104115
Date Rec.: 4-11-01
Date Due: 4-23-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1 Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓			
5. Is COC included with samples?	✓			
6. Is COC signed and dated by client?	✓			
7. Laboratory receipt temperature. TEMP = 5.5°				
Samples rec. with ice ✓ ice packs___ neither___				
8. Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?	✓			
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓	✓		faxed to client for metals + explain. Of Diss minerals
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓	✓		not labeled (same
13. Were all samples properly preserved? D metals filt + pres @ lab	✓	✓		off in cooler?) - faxed
14. Were proper sample containers used?	✓			client for action to
15. Were all samples received intact? (none broken or leaking)	✓			go ahead
16. Were VOA vials rec. with no air bubbles?	✓			
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:			✓	
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?			✓	
Client Log?		✓		
Composite Log?			✓	
Filtration Log?			✓	

Received By: CC Date: 4-11-01 Logged in By: CC Date: 4-16-01
Labeled By: CC Date: 4-16-01 Checked By: [illegible] Date: 4-16-01

NA= Not Applicable

qc/qcmemos/forms/samplerec Rev.18 06/00

AMRO Environmental
Laboratories Corporation

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

Please Circle if:
Sample= Soil
Sample= Waste

Sample ID	Analysis	Volume Sample	Preserv. Listed	Initial pH	Acceptable? Y or N	List Preserv. Added by AMRO	Solution ID # of Preserv.	Volume Preservative Added	Final adjusted pH
01A-02A	VOC	3x40ml	HCl	—	—				
01B	SVOC	1x1LA	—	5	Y				
01C-02C	T Metals	1x500P	HNO_3	1	Y				
01D	D Metals	1x500P	—	5	N	filtered and preserved @lab			
02B	SVOC	1x1LA	—	11	Y				
02D	D Metals	1x500P	—	11	N	filtered and preserved @lab			

pH Checked By: DO Date: 4-11-01 pH adjusted By: Date:

qc/qcmemos/forms/samplerec Rev.18 06/00

D Environmental Laboratories Corporation
Derrick Street
Merrimack, NH 03054

CHAIN-OF- TODY RECORD

38341

Office: (60. -2022
Fax: (60. 9-8496

Project No.: 0702184	Project Name: East Side Access Bellmouth	Project Manager: CLV	Samplers (Signature):	AMRO Project No.: 0104115
	Project State: NY			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W, WW= Waste W, DW= Drinking W, O= Oil, Other= Specify)	Total # of Cont. & Size	Analysis Required: VOCs	SVOCs	Total Metals	Filtered Metals	Remarks
QB305W	4/9/01 1155	GW	3 40ml	✓				
QB305W	4/9/01 1230	GW	1 1-br. glass		✓			
QB305W	4/9/01 1155	GW	16 poly w/HNO3			✓		
QB305W	4/9/01 1230	GW	16 poly				✓	To be filtered by lab (field filtration unit not working)
QB304W	4/9/01 1990	GW	3 40 ml vials	✓				
QB304W	4/9/01 1992	GW	1 1-br. glass		✓			
QB304W	4/9/01 1993	GW	1 x 1602			✓		
QB304W	4/9/01 1994	GW	1 x 1602				✓	

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

FAX No.:

NOTES: Preservatives, Special reporting limits, Known Contamination, etc;

Send Results To: Pam Oetericks
SIV Inc.
225 Park Ave South
New York NY 10003

Relinquished By	Date/ Time	Received By	Date/Time
Pamela Oeterich	4/9/01 1615		
	4-11-01 1200	C Coarley	

Seal Intact? Yes No N/A

GW-1 GW-2 GW-3

MCP Level Needed:

P.O. No:

Results Needed By:

PRIORITY TURNAROUND TIME AUTHORIZATION
Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER
AUTHORIZATION No. BY:

SHEET OF

White: Lab Copy Yellow: Accompanies Report Pink: Client Copy

APR 25 2001 17:43
APR.25.2001 4:47PM
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AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

FAX TRANSMITTAL FORM

DATE: 4/25/01

TO: Jeff Butler

FROM: Denise

FAX #: 212-529-5237

Number of Pages including cover sheet: _____

Comments:

Results for Amro #s 104117
& 104116

CONFIDENTIALITY NOTICE

This facsimile transmission (and /or documents accompanying it) may contain confidential information belonging to the sender. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, you are hereby notified that any disclosure, distribution, copying or taking in reliance on the contents of this information is strictly prohibited. If you have this transmission in error, please immediately notify us by telephone to arrange for return of the documents.

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

April 25, 2001

Jeff Butler
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX:

RE: 0702184 East Side Access Bellmouth Order No.: 0104117

Dear Jeff Butler:

AMRO Environmental Laboratories Corp. received 2 samples on 4/11/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of ____ pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

for Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Project: 0702184 East Side Access Bellmouth
Lab Order: 0104117
Date Received: 4/11/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0104117-01A	QB 305W	4/9/01
0104117-02A	QB 304W	4/9/01

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Lab Order: 0104117
Project: 0702184 East Side Access Bellmouth
Lab ID: 0104117-01A

Client Sample ID: QB 305W
Collection Date: 4/9/01
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE	**E120.1**					Analyst: RK
Specific Conductance	680	1.0		µmhos/cm	1	4/23/01
TOTAL DISSOLVED SOLIDS	**E160.1**					Analyst: ZD
Total Dissolved Solids (Residue, Filterable)	520	10		mg/L	1	4/14/01
ION CHROMATOGRAPHY	**E300**					Analyst: RK
Chloride	82	5.0		mg/L	10	4/17/01
Sulfate	110	10		mg/L	10	4/17/01
ALKALINITY, TOTAL	**E310.1**					Analyst: APL
Alkalinity, Total (As CaCO3)	65	2.0		mg/L	1	4/23/01
HARDNESS AS CACO3	**SW6010B**					Analyst: REB
Hardness (As CaCO3)	210	33		mg/L	1	4/16/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 304W
Lab Order:	0104117		
Project:	0702184 East Side Access Bellmouth	**Collection Date:**	4/9/01
Lab ID:	0104117-02A	**Matrix:**	GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE		**E120.1**				Analyst: RK
Specific Conductance	1,300	1.0		µmhos/cm	1	4/23/01
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: ZD
Total Dissolved Solids (Residue, Filterable)	400	10		mg/L	1	4/14/01
ION CHROMATOGRAPHY		**E300**				Analyst: RK
Chloride	44	5.0		mg/L	10	4/17/01
Sulfate	34	1.0		mg/L	1	4/17/01
ALKALINITY, TOTAL		**E310.1**				Analyst: APL
Alkalinity, Total (As CaCO3)	300	2.0		mg/L	1	4/23/01
HARDNESS AS CACO3		**SW6010B**				Analyst: REB
Hardness (As CaCO3)	290	33		mg/L	1	4/16/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

25-Apr-01

Lab Order: 0104117
Client: STV Incorporated
Project: 0702184 East Side Access Bellmo

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0104117-01A	QB 305W	4/9/01	Groundwater	Alkalinity, Total			4/23/01
				HARDNESS		4/16/01	4/16/01
				Ion Chromatography			4/17/01
				Specific Conductance			4/23/01
				Total Dissolved Solids			4/14/01
0104117-02A	QB 304W			Alkalinity, Total			4/23/01
				HARDNESS		4/16/01	4/16/01
				Ion Chromatography			4/17/01
				Ion Chromatography			4/17/01
				Specific Conductance			4/23/01
				Total Dissolved Solids			4/14/01

AMRO Environmental Laboratories Corporation

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

SAMPLE RECEIPT CHECKLIST

Client: STV
Project Name: 2702184 East Side
Ship via: (circle one) Fed Ex. UPS, AMRO Courier, Access
Hand Del., Other Courier, Other: Bell Mouth

AMRO ID: 0104117
Date Rec.: 4-11-01
Date Due: 4-23-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓			
5. Is COC included with samples?	✓			
6. Is COC signed and dated by client?	✓			
7 Laboratory receipt temperature. TEMP = 5.5°				
Samples rec. with ice ✓ ice packs ___ neither ___				
8 Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?	✓			
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓			
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓			
13. Were all samples properly preserved?	✓			
14. Were proper sample containers used?	✓			
15. Were all samples received intact? (none broken or leaking)	✓			
16. Were VOA vials rec. with no air bubbles?			✓	
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:			✓	
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?			✓	
Client Log?		✓		
Composite Log?			✓	
Filtration Log?			✓	

Received By: CC Date: 4-11-01 Logged in By: CC Date: 4-13-01
Labeled By: CC Date: 4-13-01 Checked By: [signature] Date: 4-13-01

NA= Not Applicable

qc/qcmemos/forms/samplerec Rev.18 06/00

AMRO Environmental
Laboratories Corporation

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

Please Circle if:
Sample= Soil
Sample= Waste

Sample ID	Analysis	Volume Sample	Preserv. Listed	Initial pH	Acceptable? Y or N	List Preserv. Added by AMRO	Solution ID # of Preserv.	Volume Preservative Added	Final adjusted pH
01A-02A	Alk, Cl-,	1x1LP	—	6;11	Y				
	Hardness								
	Sulfate,								
	TDS,								
	Spec								
	Conduct								

pH Checked By: DO Date: 4-12-01 pH adjusted By: Date:

qc/qcmemos/forms/samplerec Rev.18 06/00

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, NH 03054

CHAIN-OF-CUSTODY RECORD

38342

Fax: (603) 429-8496

Project No.: 0702184	Project Name: East Side Access Bellmouth	Project Manager: CLV	Samplers (Signature): Pamela Cole	AMRO Project No.: 0104117
	Project State: NY			

Sample ID	Date/Time Sampled	Matrix (A= Air, S= Soil, GW= Ground W, WW= Waste W, DW= Drinking W, O= Oil, Other= Specify)	Total # of Cont. & Size	Analysis Required: Alkalinity	Specific Conductance	CaCO3	MgCO3	Chloride	Sulfate	Dissolved Minerals	Remarks
QB305W	4/9/01 1210	GW	1x32 poly	✓	✓	✓	✓	✓	✓	✓	No preservative. Lab to filter for dissolved minerals
QB304W	1495	GW	1x32	✓	✓	✓	✓	✓	✓	✓	

Preservative: Cl-HCl, MeOH, N-HN03, S-H2SO4, Na-NaOH, O- Other

Container Type: P- Plastic, G-Glass, V-Vial, T- Teflon, O-Other

Please print clearly, legibly and completely. Samples can not be logged in and the turnaround time clock will not start until any ambiguities are resolved.

FAX No.:

NOTES: Preservatives, Special reporting limits, Known Contamination, etc; Forward results to Julian Pardo upon receipt. - Geotechnical parameters

Send Results To: Jeff Butler STV

Relinquished By	Date/ Time	Received By	Date/Time
Pamela Cole	4/9/01 1415		
	4/11/01 1200	C Cearley	

Seal Intact? Yes No N/A

P.O. No:

Results Needed By:

GW-1 GW-2 GW-3

MCP Level Needed:

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited TAT, you must have requested in advance and received a coded TAT AUTHORIZATION NUMBER

AUTHORIZATION No. BY:

SHEET OF

White: Copy Yellow: Accompanies Report Pink: Client Copy

APR 25 2001 16:58

PAGE.09

AMRO Environmental Laboratories Corporation

111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 · FAX: (603) 429-8496

April 25, 2001

Jeff Butler
STV Incorporated
225 Park Avenue South
New York, NY 10003
TEL: (212) 777-4400
FAX:

RE: 072184 ESA - Bellmouth Order No.: 0104116

Dear Jeff Butler:

AMRO Environmental Laboratories Corp. received 2 samples on 4/11/01 for the analyses presented in the following report.

AMRO operates a Quality Assurance Program which meets or exceeds National Environmental Laboratory Accreditation Conference (NELAC), state, and EPA requirements. A copy of the appropriate state and/or NELAC Certificate is attached.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of thirty (30) days from this report date. After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of ____ pages. This letter is an integral part of your data report. If you have any questions regarding this project in the future, please refer to the Order Number above.

Sincerely,

Nancy Stewart
Vice President / Lab Director

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Project: 072184 ESA - Bellmouth
Lab Order: 0104116
Date Received: 4/11/01

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date
0104116-01A	QB 301 W	4/10/01
0104116-01B	QB 301 W	4/10/01
0104116-01C	QB 301 W	4/10/01
0104116-01D	QB 301 W	4/10/01
0104116-01E	QB 301 W	4/10/01
0104116-02A	Field Blank	4/10/01

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Project: 072184 ESA - Bellmouth
Lab Order: 0104116

CASE NARRATIVE

GENERAL

1. Sample ID QB 301W (0104116-01D) for Dissolved Metals was filtered and preserved in the laboratory at the client's request.

GC/MS VOA

1. The pH for sample QB301W (0104116-01A) was 11pH units. Also this sample was analyzed at 10x dilution due to foamy sample matrix.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated — **Client Sample ID:** QB 301 W
Lab Order: 0104116
Project: 072184 ESA - Bellmouth — **Collection Date:** 4/10/01
Lab ID: 0104116-01C — **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS TOTAL SW-846		**SW6010B**				Analyst: REB
Aluminum	11,000	200		µg/L	1	4/20/01 11:09:52 AM
Antimony	ND	20		µg/L	1	4/20/01 11:09:52 AM
Barium	ND	200		µg/L	1	4/20/01 11:09:52 AM
Beryllium	ND	5.0		µg/L	1	4/20/01 11:09:52 AM
Cadmium	ND	5.0		µg/L	1	4/20/01 11:09:52 AM
Calcium	290,000	2,500		µg/L	1	4/20/01 11:09:52 AM
Chromium	30	10		µg/L	1	4/20/01 11:09:52 AM
Cobalt	ND	50		µg/L	1	4/20/01 11:09:52 AM
Copper	120	25		µg/L	1	4/20/01 11:09:52 AM
Iron	15,000	100		µg/L	1	4/20/01 11:09:52 AM
Magnesium	7,800	2,500		µg/L	1	4/20/01 11:09:52 AM
Manganese	350	15		µg/L	1	4/20/01 11:09:52 AM
Nickel	210	40		µg/L	1	4/20/01 11:09:52 AM
Potassium	66,000	2,500		µg/L	1	4/20/01 2:39:57 PM
Silver	ND	7.0		µg/L	1	4/20/01 11:09:52 AM
Sodium	170,000	2,500		µg/L	1	4/20/01 2:39:57 PM
Vanadium	ND	50		µg/L	1	4/20/01 11:09:52 AM
Zinc	200	20		µg/L	1	4/20/01 11:09:52 AM
ARSENIC, TOTAL		**SW7060A**				Analyst: APL
Arsenic	32	5.0		µg/L	1	4/20/01
MERCURY, TOTAL		**SW7470A**				Analyst: MT
Mercury	0.75	0.20		µg/L	1	4/19/01
LEAD, TOTAL		**SW7421**				Analyst: APL
Lead	270	40		µg/L	8	4/24/01
SELENIUM, TOTAL		**SW7740**				Analyst: APL
Selenium	ND	5.0		µg/L	1	4/20/01
THALLIUM, TOTAL		**SW7841**				Analyst: APL
Thallium	ND	5.0		µg/L	1	4/20/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative

RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 301 W
Lab Order:	0104116		
Project:	072184 ESA - Bellmouth	**Collection Date:**	4/10/01
Lab ID:	0104116-01D	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP METALS DISSOLVED SW-846		**SW6010B**				Analyst: REB
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Aluminum	2,000	200		µg/L	1	4/20/01 11:15:51 AM
Antimony	ND	20		µg/L	1	4/20/01 11:15:51 AM
Barium	ND	200		µg/L	1	4/20/01 11:15:51 AM
Beryllium	ND	5.0		µg/L	1	4/20/01 11:15:51 AM
Cadmium	ND	5.0		µg/L	1	4/20/01 11:15:51 AM
Calcium	240,000	2,500		µg/L	1	4/20/01 11:15:51 AM
Chromium	ND	10		µg/L	1	4/20/01 11:15:51 AM
Cobalt	ND	50		µg/L	1	4/20/01 11:15:51 AM
Copper	77	25		µg/L	1	4/20/01 11:15:51 AM
Iron	240	100		µg/L	1	4/20/01 11:15:51 AM
Magnesium	ND	2,500		µg/L	1	4/20/01 11:15:51 AM
Manganese	ND	15		µg/L	1	4/20/01 11:15:51 AM
Nickel	190	40		µg/L	1	4/20/01 11:15:51 AM
Potassium	62,000	2,500		µg/L	1	4/20/01 2:43:30 PM
Silver	ND	7.0		µg/L	1	4/20/01 11:15:51 AM
Sodium	170,000	2,500		µg/L	1	4/20/01 2:43:30 PM
Thallium	ND	25		µg/L	1	4/20/01 11:15:51 AM
Vanadium	ND	50		µg/L	1	4/20/01 11:15:51 AM
Zinc	41	20		µg/L	1	4/20/01 11:15:51 AM
ARSENIC, DISSOLVED		**SW7060A**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Arsenic	25	5.0		µg/L	1	4/20/01
MERCURY, DISSOLVED		**SW7470A**				Analyst: MT
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Mercury	ND	0.20		µg/L	1	4/19/01
LEAD, DISSOLVED		**SW7421**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Lead	10	5.0		µg/L	1	4/20/01
SELENIUM, DISSOLVED		**SW7740**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Selenium	ND	5.0		µg/L	1	4/20/01
THALLIUM, DISSOLVED		**SW7841**				Analyst: APL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Thallium	ND	5.0		µg/L	1	4/20/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- H - Method prescribed holding time exceeded
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- # - See Case Narrative
- RL - Reporting Limit, defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 301 W
Lab Order:	0104116		
Project:	072184 ESA - Bellmouth	**Collection Date:**	4/10/01
Lab ID:	0104116-01E	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE		**E120.1**				Analyst: RK
Specific Conductance	2,500	1.0		µmhos/cm	1	4/23/01
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: ZD
Total Dissolved Solids (Residue, Filterable)	2,000	10		mg/L	1	4/14/01
ION CHROMATOGRAPHY		**E300**				Analyst: RK
Chloride	340	10		mg/L	20	4/18/01
Sulfate	62	10		mg/L	10	4/17/01
ALKALINITY, TOTAL		**E310.1**				Analyst: APL
Alkalinity, Total (As CaCO3)	690	2.0		mg/L	1	4/23/01
HARDNESS AS CACO3		**SW6010B**				Analyst: REB
Hardness (As CaCO3)	760	33		mg/L	1	4/20/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT:	STV Incorporated	**Client Sample ID:**	QB 301 W
Lab Order:	0104116		
Project:	072184 ESA - Bellmouth	**Collection Date:**	4/10/01
Lab ID:	0104116-01A	**Matrix:**	AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: JSL
**** Sample receipt problems were observed for this test method. See Case Narrative for details. ****						
Dichlorodifluoromethane	ND	50		µg/L	10	4/18/01 6:24:00 AM
Chloromethane	ND	50		µg/L	10	4/18/01 6:24:00 AM
Vinyl chloride	ND	20		µg/L	10	4/18/01 6:24:00 AM
Chloroethane	ND	50		µg/L	10	4/18/01 6:24:00 AM
Bromomethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Trichlorofluoromethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Acetone	1,200	100		µg/L	10	4/18/01 6:24:00 AM
1,1-Dichloroethene	ND	10		µg/L	10	4/18/01 6:24:00 AM
Carbon disulfide	ND	20		µg/L	10	4/18/01 6:24:00 AM
Methylene chloride	ND	50		µg/L	10	4/18/01 6:24:00 AM
Methyl tert-butyl ether	ND	20		µg/L	10	4/18/01 6:24:00 AM
trans-1,2-Dichloroethene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,1-Dichloroethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
2-Butanone	ND	100		µg/L	10	4/18/01 6:24:00 AM
2,2-Dichloropropane	ND	20		µg/L	10	4/18/01 6:24:00 AM
cis-1,2-Dichloroethene	ND	20		µg/L	10	4/18/01 6:24:00 AM
Chloroform	ND	20		µg/L	10	4/18/01 6:24:00 AM
Bromochloromethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,1,1-Trichloroethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,1-Dichloropropene	ND	20		µg/L	10	4/18/01 6:24:00 AM
Carbon tetrachloride	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,2-Dichloroethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Benzene	ND	10		µg/L	10	4/18/01 6:24:00 AM
Trichloroethene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,2-Dichloropropane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Bromodichloromethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Dibromomethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
4-Methyl-2-pentanone	ND	100		µg/L	10	4/18/01 6:24:00 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	4/18/01 6:24:00 AM
Toluene	ND	20		µg/L	10	4/18/01 6:24:00 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	4/18/01 6:24:00 AM
1,1,2-Trichloroethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,2-Dibromoethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
2-Hexanone	ND	100		µg/L	10	4/18/01 6:24:00 AM
1,3-Dichloropropane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Tetrachloroethene	ND	20		µg/L	10	4/18/01 6:24:00 AM
Dibromochloromethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Chlorobenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit, defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: QB 301 W
Lab Order: 0104116
Project: 072184 ESA - Bellmouth
Collection Date: 4/10/01
Lab ID: 0104116-01A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Ethylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
m,p-Xylene	ND	20		µg/L	10	4/18/01 6:24:00 AM
o-Xylene	ND	20		µg/L	10	4/18/01 6:24:00 AM
Styrene	ND	20		µg/L	10	4/18/01 6:24:00 AM
Bromoform	ND	20		µg/L	10	4/18/01 6:24:00 AM
Isopropylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	4/18/01 6:24:00 AM
Bromobenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
n-Propylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
2-Chlorotoluene	ND	20		µg/L	10	4/18/01 6:24:00 AM
4-Chlorotoluene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,3,5-Trimethylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
tert-Butylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,2,4-Trimethylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
sec-Butylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
4-Isopropyltoluene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,3-Dichlorobenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,4-Dichlorobenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
n-Butylbenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,2-Dichlorobenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
1,2-Dibromo-3-chloropropane	ND	50		µg/L	10	4/18/01 6:24:00 AM
1,2,4-Trichlorobenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM
Hexachlorobutadiene	ND	20		µg/L	10	4/18/01 6:24:00 AM
Naphthalene	ND	50		µg/L	10	4/18/01 6:24:00 AM
1,2,3-Trichlorobenzene	ND	20		µg/L	10	4/18/01 6:24:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Lab Order: 0104116
Project: 072184 ESA - Bellmouth
Lab ID: 0104116-02A

Client Sample ID: Field Blank
Collection Date: 4/10/01
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS		**SW8260B**				Analyst: JSL
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/18/01 5:50:00 AM
Chloromethane	ND	5.0		µg/L	1	4/18/01 5:50:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Chloroethane	ND	5.0		µg/L	1	4/18/01 5:50:00 AM
Bromomethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Acetone	ND	10		µg/L	1	4/18/01 5:50:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/18/01 5:50:00 AM
Carbon disulfide	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Methylene chloride	ND	5.0		µg/L	1	4/18/01 5:50:00 AM
Methyl tert-butyl ether	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
2-Butanone	ND	10		µg/L	1	4/18/01 5:50:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Chloroform	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Bromochloromethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,1-Dichloropropene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Carbon tetrachloride	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,2-Dichloroethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Benzene	ND	1.0		µg/L	1	4/18/01 5:50:00 AM
Trichloroethene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Bromodichloromethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Dibromomethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/18/01 5:50:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/18/01 5:50:00 AM
Toluene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/18/01 5:50:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,2-Dibromoethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
2-Hexanone	ND	10		µg/L	1	4/18/01 5:50:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Tetrachloroethene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Dibromochloromethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Chlorobenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: Field Blank
Lab Order: 0104116
Project: 072184 ESA - Bellmouth
Collection Date: 4/10/01
Lab ID: 0104116-02A
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Ethylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
m,p-Xylene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
o-Xylene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Styrene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Bromoform	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Isopropylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Bromobenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
n-Propylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
2-Chlorotoluene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
4-Chlorotoluene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
tert-Butylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
sec-Butylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
n-Butylbenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/18/01 5:50:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM
Naphthalene	ND	5.0		µg/L	1	4/18/01 5:50:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	4/18/01 5:50:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: QB 301 W
Lab Order: 0104116
Project: 072184 ESA - Bellmouth
Collection Date: 4/10/01
Lab ID: 0104116-01B
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS		**SW8270C**				Analyst: KD
Phenol	1,000	100		µg/L	10	4/20/01 2:54:00 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	4/18/01 7:51:00 PM
2-Chlorophenol	ND	10		µg/L	1	4/18/01 7:51:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	4/18/01 7:51:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Benzyl alcohol	ND	20		µg/L	1	4/18/01 7:51:00 PM
2-Methylphenol	ND	10		µg/L	1	4/18/01 7:51:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	4/18/01 7:51:00 PM
4-Methylphenol	30	10		µg/L	1	4/18/01 7:51:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/18/01 7:51:00 PM
Hexachloroethane	ND	10		µg/L	1	4/18/01 7:51:00 PM
Nitrobenzene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Isophorone	ND	10		µg/L	1	4/18/01 7:51:00 PM
2,4-Dimethylphenol	ND	10		µg/L	1	4/18/01 7:51:00 PM
Benzoic acid	500	200		µg/L	10	4/20/01 2:54:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/18/01 7:51:00 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	4/18/01 7:51:00 PM
2,4-Dichlorophenol	ND	10		µg/L	1	4/18/01 7:51:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Naphthalene	ND	10		µg/L	1	4/18/01 7:51:00 PM
4-Chloroaniline	ND	10		µg/L	1	4/18/01 7:51:00 PM
Hexachlorobutadiene	ND	10		µg/L	1	4/18/01 7:51:00 PM
4-Chloro-3-methylphenol	ND	20		µg/L	1	4/18/01 7:51:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	4/18/01 7:51:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/18/01 7:51:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/18/01 7:51:00 PM
2-Chloronaphthalene	ND	10		µg/L	1	4/18/01 7:51:00 PM
2-Nitroaniline	ND	20		µg/L	1	4/18/01 7:51:00 PM
Dimethyl phthalate	ND	10		µg/L	1	4/18/01 7:51:00 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Acenaphthylene	ND	10		µg/L	1	4/18/01 7:51:00 PM
3-Nitroaniline	ND	20		µg/L	1	4/18/01 7:51:00 PM
4-Nitrophenol	ND	20		µg/L	1	4/18/01 7:51:00 PM
2,4-Dinitrophenol	ND	20		µg/L	1	4/18/01 7:51:00 PM
Acenaphthene	ND	10		µg/L	1	4/18/01 7:51:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	4/18/01 7:51:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
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E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit: defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: *25-Apr-01*

CLIENT: STV Incorporated
Client Sample ID: QB 301 W
Lab Order: 0104116
Project: 072184 ESA - Bellmouth
Collection Date: 4/10/01
Lab ID: 0104116-01B
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Dibenzofuran	ND	10		µg/L	1	4/18/01 7:51:00 PM
Diethyl phthalate	ND	10		µg/L	1	4/18/01 7:51:00 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	4/18/01 7:51:00 PM
Fluorene	ND	10		µg/L	1	4/18/01 7:51:00 PM
4-Nitroaniline	ND	20		µg/L	1	4/18/01 7:51:00 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	4/18/01 7:51:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/18/01 7:51:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	4/18/01 7:51:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	4/18/01 7:51:00 PM
Hexachlorobenzene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Pentachlorophenol	22	20		µg/L	1	4/18/01 7:51:00 PM
Phenanthrene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Anthracene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Carbazole	ND	10		µg/L	1	4/18/01 7:51:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	4/18/01 7:51:00 PM
Fluoranthene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Pyrene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	4/18/01 7:51:00 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	4/18/01 7:51:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	4/18/01 7:51:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Chrysene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	4/18/01 7:51:00 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/18/01 7:51:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	4/18/01 7:51:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
H - Method prescribed holding time exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
- See Case Narrative
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

25-Apr-01

Lab Order: 0104116
Client: STV Incorporated
Project: 072184 ESA - Bellmouth

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0104116-01A	QB 301 W	4/10/01	Aqueous	VOLATILES by GC/MS		4/17/01	4/18/01
0104116-01B				SEMIVOLATILE ORGANICS, Aqueous		4/16/01	4/18/01
				SEMIVOLATILE ORGANICS, Aqueous		4/16/01	4/20/01
0104116-01C				ARSENIC, Total		4/19/01	4/20/01
				ICP METALS, TOTAL		4/19/01	4/20/01
				ICP METALS, TOTAL		4/19/01	4/20/01
				LEAD, Total		4/19/01	4/24/01
				MERCURY, Total		4/19/01	4/19/01
				SELENIUM, Total		4/19/01	4/20/01
				THALLIUM, Total		4/19/01	4/20/01
0104116-01D				ARSENIC, Dissolved		4/19/01	4/20/01
				ICP METALS, DISSOLVED		4/19/01	4/20/01
				ICP METALS, DISSOLVED		4/19/01	4/20/01
				LEAD, Dissolved		4/19/01	4/20/01
				MERCURY, Dissolved		4/19/01	4/19/01
				SELENIUM, Dissolved		4/19/01	4/20/01
				THALLIUM, Dissolved		4/19/01	4/20/01
0104116-01E				Alkalinity, Total			4/23/01
				HARDNESS		4/19/01	4/20/01
				Ion Chromatography			4/17/01
				Ion Chromatography			4/18/01
				Specific Conductance			4/23/01
				Total Dissolved Solids			4/14/01
0104116-02A	Field Blank			VOLATILES by GC/MS		4/17/01	4/18/01

AMRO Environmental
Laboratories Corporation

SAMPLE RECEIPT CHECKLIST

Merrimack, NH 03054
(603) 424-2022

Client: STV
Project Name: 072184 ESA - Bellmouth
Ship via: (circle one) Fed Ex., UPS, AMRO Courier, Hand Del., Other Courier. Other:

AMRO ID: 0104116
Date Rec.: 4-11-01
Date Due: 4-23-01

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals Intact?			✓	
4. Air Bill included in folder if received?	✓			
5. Is COC included with samples?	✓			
6. Is COC signed and dated by client?	✓			
7. Laboratory receipt temperature. ✓ TEMP = 2°				
Samples rec. with Ice ✓ ice packs ___ neither ___				
8. Were samples received the same day they were sampled?		✓		
Is client temperature 4°C ± 2°C?	✓			
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓	✓		3 VOCs left off faxed to client
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓			
13. Were all samples properly preserved?	✓			
14. Were proper sample containers used?	✓			Field Blank and TB broken - client faxed only VOC sample
15. Were all samples received intact? (none broken or leaking)		✓		
16. Were VOA vials rec. with no air bubbles?	✓			
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:			✓	
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:			✓	
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?	✓			
Dry Weight Log?			✓	
Client Log?		✓		
Composite Log?			✓	
Filtration Log?			✓	

Received By: CC Date: 4-11-01 Logged in By: CC Date: 4-13-01
Labeled By: CC Date: 4-13-01 Checked By: [signature] Date: 4-16-01

NA= Not Applicable

qc/qcmemos/forms/samplerec Rev.18 06/00

AMRO Environmental
Laboratories Corporation

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

Please Circle if:
Sample= Soil
ample= Waste

Sample ID	Analysis	Volume Sample	Preserv. Listed	Initial pH	Acceptable? Y or N	List Preserv. Added by AMRO	Solution ID # of Preserv.	Volume Preservative Added	Final adjusted pH
01A	VOC	3x40ml	HCl	—	—				
01B	SVOC	1x1LA	—	11	Y				
01C	T metals	1x500P	HNO_3	2	Y				
01D	D metals	1x500P	—	11	N	filtered and		preserved in	
01E	Alk, Cl-,	1x1LP	—	11	Y			lab	
	Hardness,								
	TDS,								
	Spec. Cond,								
	Sulfate								

pH Checked By: DO Date: 4-12-01 pH adjusted By: TL Date: 4-12-01 4:00

qc/qcmemos/forms/samplerec Rev.18 06/00

AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, N.H. 03054
Office: 603-424-2022 Fax: 603-429-8496

34350

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

Proj. No.	Project Name	Project State
072184	ESA - Bellmouth	NY

Samplers (Signature): Pamela Gilbert

MATRIX: Water - A; Soil/Solid-S; Waste-W; Other-O; Explain

Sta. No.	Date	Time	Comp	Grab	Station Location	Type Size, & No. of Containers	MATRIX	SVOCs	VOCs	Total metals	Filtered metals			Remarks
	4-10-01	1150		X	QB 301 W	1 x 1 liter	A	✓						
	"	~~1155~~ 1200		X	QB 301 W	4 x 16 oz	A			✓				
	"	1153		X	QB 301 W	1 x 16 oz	A				✓			
	"	1203		X	QB 301 W	3 x 40 mL	A		✓					
	"			X	TRIP Blank	1 x 40 mL			✓					

Please print clearly, legibly and completely. Samples cannot be logged in and the turnaround time clock will not start until any ambiguities are resolved.

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited T.A.T., you must have requested in advance and received a coded T.A.T. AUTHORIZATION NUMBER.

AUTHORIZATION NO._____ T.A.T. authorized by:_____

Relinquished by (Signature)	Date Time	Received by (Signature)
Pamela Gilbert	4/10/01 1300	
Relinquished by (Signature)	Date Time	Received by (Signature)
Relinquished by (Signature)	Date Time	Received by (Signature)
Relinquished by (Signature)	Date Time	Received for Laboratory by: (Signature)
	4/11/01 1200	C Cearley

☐ Fax to (phone)

Results needed

PO#

AMRO Project No. 0104116

Seal Intact? Yes No N/A

Send Results to: Jeff Butler
225 Park Ave South
NY NY 10003

Remarks

White: Copy Yellow: Accompanies report Pink: Client copy

APR 25 2001 17:03
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AMRO Environmental Laboratories Corporation
111 Herrick Street
Merrimack, N.H. 03054
Office: 603-424-2022 Fax: 603-429-8496

33844

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

Proj. No.	Project Name	Project State
072184	ESA - Bellmouth	NY

Samplers (Signature): Pamela Odell

Sta. No.	Date	Time	Comp	Grab	Station Location	Type Size, & No. of Containers	MATRIX Water - A Soil/Solid-S Waste-W Other-O Explain	Alkalinity	CaCO3	MgCO3	Chloride	Diss. minerals	Spec. conduct. hv:	Sulfate	Remarks
	4-10-01	1212		X	QB 301 W	1x32oz	A	✓	✓	✓	✓	✓	✓	✓	

Please print clearly, legibly and completely. Samples cannot be logged in and the turnaround time clock will not start until any ambiguities are resolved.

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited T.A.T., you must have requested in advance and received a coded T.A.T. AUTHORIZATION NUMBER.

AUTHORIZATION NO._____ T.A.T. authorized by:_____

Relinquished by (Signature)	Date Time	Received by (Signature)
Pam Odell	4-10-01 13:00	
Relinquished by (Signature)	Date Time	Received by (Signature)
Relinquished by (Signature)	Date Time	Received by (Signature)
Relinquished by (Signature)	Date Time	Received for Laboratory by: (Signature)
	4/11/01 12:00	C Cearley

☐ Fax to (phone)

Results needed

PO#

Send Results to: Jeff Butler
225 Park Ave South
NY, NY 10003

AMRO Project No. 0104116

Remarks: These are Julian Prada's.

Seal Intact? Yes · No · N/A

White: Lab copy Yellow: Accompanies report Pink: Client copy

APR 25 2001 17:04
APR.25.2001 4:09PM
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