

<p><i>Prepared Exclusively For:</i></p> <p>NYCDEP-Emergency Response & Tech Assmt.</p> <p>96-05 Horace Harding Expressway</p> <p>Corona, NY 11368</p> <p>(718) 595-4650</p> <p>MR. M. FAWZY, DIRECTOR</p>	<p>PEDNEAULT ASSOCIATES, INC.</p> <p>1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716</p> <p>LAB NUMBER: 01090311</p> <p>PROJECT ID : WORLD TRADE CENTER - 5 Boro Air Sampling</p>
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DATE RECEIVED		RELEASE DATE		REPORT DATE
9/25/01		9/26/01		9/26/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
9/24/01 7:15 PM	01090311-001	AIR\GAS	BROADWAY AVE & 31st ST. , QUEENS	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID 121/125G		<0.01	mg/m3
Antimony (Sb)	OSHA ID121/125G		0.17	mg/m3
Arsenic (As)	OSHA ID121/125G		<0.01	mg/m3
Copper (Cu)	OSHA ID121/125G		<0.01	mg/m3
Barium (Ba)	OSHA ID121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID121/125G		<0.01	mg/m3
Lead (Pb)	OSHA ID121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID121/125G		<0.01	mg/m3
Selenium (Se)	OSHA ID121/125G		0.05	mg/m3
Sodium (Na)	OSHA ID121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID121/125G		0.16	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

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NYS ELAP #10224
MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_011064508

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)

B=Concentration of Blank in sample solution (µg/ml) or (mg/L)

SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume

BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume

RAB= Reagent Blank Concentration (µg/ml) or (mg/L)

RABSV= Reagent Blank Sample Volume

D= Dilution Factor (NONE)

NO GRAVIMETRIC FACTORS

AV= Air Volume Sampled

AR=Analytical Result

IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.062	100	6.2	0.121	100	12.1	-5.9	30	-0.1966667	Aluminum- Al	<0.01
0.052	100	5.2	0	100	0	5.2	30	0.1733333	Antimony-Sb	0.17
0.001	100	0.1	0	100	0	0.1	30	0.0033333	Arsenic-As	<0.01
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
0	100	0	-0.001	100	-0.1	0.1	30	0.0033333	Beryllium-Be	<0.01
0	100	0	0.001	100	0.1	-0.1	30	-0.0033333	Cadmium-Cd	<0.01
0.557	100	55.7	0.661	100	66.1	-10.4	30	-0.3466667	Calcium-Ca	<0.01
0.009	100	0.9	0.01	100	1	-0.1	30	-0.0033333	Chromium-Cr	<0.01
0.027	100	2.7	0.027	100	2.7	0	30	0	Copper-Cu	<0.01
0.034	100	3.4	0.182	100	18.2	-14.8	30	-0.4933333	Iron-Fe	<0.01
0.01	100	1	0.021	100	2.1	-1.1	30	-0.0366667	Lead-Pb	<0.01
0.116	100	11.6	0.143	100	14.3	-2.7	30	-0.09	Magnesium-Mg	<0.01
0.001	100	0.1	0.003	100	0.3	-0.2	30	-0.0066667	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	
0	100	0	0.002	100	0.2	-0.2	30	-0.0066667	Nickel-Ni	<0.01
0.115	100	11.5	0.15	100	15	-3.5	30	-0.1166667	Potassium-K	<0.01
0.036	100	3.6	0.022	100	2.2	1.4	30	0.0466667	Selenium-Se	0.05
0.057	100	5.7	0.01	100	1	4.7	30	0.1566667	Silver-Ag	0.16
2.565	100	256.5	3.755	100	375.5	-119	30	-3.9666667	Sodium-Na	<0.01
0.005	100	0.5	0.005	100	0.5	0	30	0	Thallium-Tl	<0.01
0.026	100	2.6	0.035	100	3.5	-0.9	30	-0.03	Zinc-Zn	<0.01

LAB ID #01090311-001

NYCDEP - BROADWAY & 31ST QUEENS

Prepared Exclusively For: NYCDEP-Emergency Response & Tech Assmt. 96-05 Horace Harding Expressway Corona, NY 11368 (718) 595-4650 MR. M. FAWZY, DIRECTOR	PEDNEAULT ASSOCIATES, INC. 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716 LAB NUMBER: 01090311 PROJECT ID : WORLD TRADE CENTER - 5 Boro Air Sampling
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DATE RECEIVED		RELEASE DATE		REPORT DATE
9/25/01		9/26/01		9/26/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
9/24/01 8:00 PM	01090311-002	AIR\GAS	138th St. & 3rd AVENUE, BRONX	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID121/125G		<0.01	mg/m3
Antimony (Sb)	OSHA ID121/125G		0.17	mg/m3
Copper (Cu)	OSHA ID121/125G		<0.01	mg/m3
Arsenic (As)	OSHA ID121/125G		0.01	mg/m3
Barium (Ba)	OSHA ID121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID121/125G		<0.01	mg/m3
Lead (Pb)	OSHA ID121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID121/125G		<0.01	mg/m3
Selenium (Se)	OSHA ID121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID121/125G		0.20	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

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MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_011064510

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A = Concentration of Analyte in sample solution (µg/ml) or (mg/L)

B = Concentration of Blank in sample solution (µg/ml) or (mg/L)

SSV = Sample Solution Volume ASSV = Analyte concentration x Sample Solution Volume

BSV = Blank Sample Volume BBSV = Blank concentration x Blank Sample Volume

RAB = Reagent Blank Concentration (µg/ml) or (mg/L)

RABSV = Reagent Blank Sample Volume

D = Dilution Factor (NONE)

NO GRAVIMETRIC FACTORS

AV = Air Volume Sampled

AR = Analytical Result

ARR = Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.065	100	6.5	0.121	100	12.1	-5.6	30	-0.1866667	Aluminum-Al	<0.01
0.051	100	5.1	0	100	0	5.1	30	0.17	Antimony-Sb	0.17
0.003	100	0.3	0	100	0	0.3	30	0.01	Arsenic-As	0.01
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
0	100	0	-0.001	100	-0.1	0.1	30	0.0033333	Beryllium-Be	<0.01
0	100	0	0.001	100	0.1	-0.1	30	-0.0033333	Cadmium-Cd	<0.01
0.605	100	60.5	0.661	100	66.1	-5.6	30	-0.1866667	Calcium-Ca	<0.01
0.009	100	0.9	0.01	100	1	-0.1	30	-0.0033333	Chromium-Cr	<0.01
0.028	100	2.8	0.027	100	2.7	0.1	30	0.0033333	Copper-Cu	<0.01
0.037	100	3.7	0.182	100	18.2	-14.5	30	-0.4833333	Iron-Fe	<0.01
0.016	100	1.6	0.021	100	2.1	-0.5	30	-0.0166667	Lead-Pb	<0.01
0.12	100	12	0.143	100	14.3	-2.3	30	-0.0766667	Magnesium-Mg	<0.01
0.001	100	0.1	0.003	100	0.3	-0.2	30	-0.0066667	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.001	100	0.1	0.002	100	0.2	-0.1	30	-0.0033333	Nickel-Ni	<0.01
0.145	100	14.5	0.15	100	15	-0.5	30	-0.0166667	Potassium-K	<0.01
0.024	100	2.4	0.022	100	2.2	0.2	30	0.0066667	Selenium-Se	<0.01
0.071	100	7.1	0.01	100	1	6.1	30	0.2033333	Silver-Ag	0.2
2.67	100	267	3.755	100	375.5	-108.5	30	-3.6166667	Sodium-Na	<0.01
0.006	100	0.6	0.005	100	0.5	0.1	30	0.0033333	Thallium-Tl	<0.01
0.026	100	2.6	0.035	100	3.5	-0.9	30	-0.03	Zinc-Zn	<0.01

LAB ID #01090311-002

NYCDEP - 138TH & 3RD AVENUE BRONX

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Prepared Exclusively For:

NYCDEP-Emergency Response & Tech Assmt.

96-05 Horace Harding Expressway

Corona, NY 11368

(718) 595-4650

MR. M. FAWZY, DIRECTOR**PEDNEAULT ASSOCIATES, INC.**

1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716

LAB NUMBER: 01090311**PROJECT ID : WORLD TRADE CENTER - 5 Boro Air Sampling**

DATE RECEIVED		RELEASE DATE		REPORT DATE
9/25/01		9/26/01		9/26/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
9/24/01 8:15 PM	01090311-003	AIR\GAS	CENTAL PARK N. & LENOX, MANHATTAN	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID121/125G		<0.01	mg/m3
Antimony (Sb)	OSHA ID121/125G		0.23	mg/m3
Copper (Cu)	OSHA ID121/125G		<0.01	mg/m3
Arsenic (As)	OSHA ID121/125G		0.01	mg/m3
Barium (Ba)	OSHA ID121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID121/125G		<0.01	mg/m3
Lead (Pb)	OSHA ID121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID121/125G		0.06	mg/m3
Selenium (Se)	OSHA ID121/125G		0.06	mg/m3
Sodium (Na)	OSHA ID121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID121/125G		0.07	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

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 MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_011064512

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)

B=Concentration of Blank in sample solution (µg/ml) or (mg/L)

SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume

BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume

RAB= Reagent Blank Concentration (µg/ml) or (mg/L)

RABSV= Reagent Blank Sample Volume

D= Dilution Factor (NONE)

NO GRAVIMETRIC FACTORS

IAV= Air Volume Sampled

IAR=Analytical Result

IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV -BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.095	100	9.5	0.121	100	12.1	-2.6	30	-0.0866667	Aluminum- Al	<0.01
0.069	100	6.9	0	100	0	6.9	30	0.23	Antimony-Sb	0.23
0.004	100	0.4	0	100	0	0.4	30	0.0133333	Arsenic-As	0.01
0.003	100	0.3	0.003	100	0.3	0	30	0	Barium-Ba	<0.01
0	100	0	-0.001	100	-0.1	0.1	30	0.0033333	Beryllium-Be	<0.01
0	100	0	0.001	100	0.1	-0.1	30	-0.0033333	Cadmium-Cd	<0.01
0.505	100	50.5	0.661	100	66.1	-15.6	30	-0.52	Calcium-Ca	<0.01
0.009	100	0.9	0.01	100	1	-0.1	30	-0.0033333	Chromium-Cr	<0.01
0.025	100	2.5	0.027	100	2.7	-0.2	30	-0.0066667	Copper-Cu	<0.01
0.047	100	4.7	0.182	100	18.2	-13.5	30	-0.45	Iron-Fe	<0.01
0.014	100	1.4	0.021	100	2.1	-0.7	30	-0.0233333	Lead-Pb	<0.01
0.103	100	10.3	0.143	100	14.3	-4	30	-0.1333333	Magnesium-Mg	<0.01
0.001	100	0.1	0.003	100	0.3	-0.2	30	-0.0066667	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.001	100	0.1	0.002	100	0.2	-0.1	30	-0.0033333	Nickel-Ni	<0.01
0.167	100	16.7	0.15	100	15	1.7	30	0.0566667	Potassium-K	0.06
0.039	100	3.9	0.022	100	2.2	1.7	30	0.0566667	Selenium-Se	0.06
0.031	100	3.1	0.01	100	1	2.1	30	0.07	Silver-Ag	0.07
2.589	100	258.9	3.755	100	375.5	-116.6	30	-3.8866667	Sodium-Na	<0.01
-0.001	100	-0.1	0.005	100	0.5	-0.6	30	-0.02	Thallium-Tl	<0.01
0.02	100	2	0.035	100	3.5	-1.5	30	-0.05	Zinc-Zn	<0.01

LAB ID #01090311-003

NYCDEP - CENTRAL PK NO & LENOX-NYC

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Prepared Exclusively For: NYCDEP-Emergency Response & Tech Assmt. 96-05 Horace Harding Expressway Corona, NY 11368 (718) 595-4650 MR. M. FAWZY, DIRECTOR	PEDNEAULT ASSOCIATES, INC. 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716 LAB NUMBER: 01090311 PROJECT ID : WORLD TRADE CENTER - 5 Boro Air Sampling
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DATE RECEIVED		RELEASE DATE		REPORT DATE
9/25/01		9/26/01		9/26/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
9/24/01 9:25 PM	01090311-004	AIR\GAS	BERRY ST. & NORTH 11th ST, BROOKLYN	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID121/125G		<0.01	mg/m3
Antimony (Sb)	OSHA ID121/125G		0.15	mg/m3
Copper (Cu)	OSHA ID121/125G		<0.01	mg/m3
Arsenic (As)	OSHA ID121/125G		0.02	mg/m3
Barium (Ba)	OSHA ID121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID121/125G		<0.01	mg/m3
Lead (Pb)	OSHA ID121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID121/125G		<0.01	mg/m3
Selenium (Se)	OSHA ID121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID121/125G		0.02	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

SUPPLEMENTAL II

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NYS ELAP #10224
MWBE #46075

CITY_21MC100_011064514

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)

B=Concentration of Blank in sample solution (µg/ml) or (mg/L)

SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume

BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume

RAB= Reagent Blank Concentration (µg/ml) or (mg/L)

RABSV= Reagent Blank Sample Volume

D= Dilution Factor (NONE)

NO GRAVIMETRIC FACTORS

AV= Air Volume Sampled

AR=Analytical Result

ARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV -BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.12	100	12	0.121	100	12.1	-0.1	30	-0.0033333	Aluminum-Al	<0.01
0.045	100	4.5	0	100	0	4.5	30	0.15	Antimony-Sb	0.15
0.007	100	0.7	0	100	0	0.7	30	0.0233333	Arsenic-As	0.02
0.004	100	0.4	0.003	100	0.3	0.1	30	0.0033333	Barium-Ba	<0.01
0	100	0	-0.001	100	-0.1	0.1	30	0.0033333	Beryllium-Be	<0.01
0	100	0	0.001	100	0.1	-0.1	30	-0.0033333	Cadmium-Cd	<0.01
0.536	100	53.6	0.661	100	66.1	-12.5	30	-0.4166667	Calcium-Ca	<0.01
0.008	100	0.8	0.01	100	1	-0.2	30	-0.0066667	Chromium-Cr	<0.01
0.022	100	2.2	0.027	100	2.7	-0.5	30	-0.0166667	Copper-Cu	<0.01
0.084	100	8.4	0.182	100	18.2	-9.8	30	-0.3266667	Iron-Fe	<0.01
0.012	100	1.2	0.021	100	2.1	-0.9	30	-0.03	Lead-Pb	<0.01
0.102	100	10.2	0.143	100	14.3	-4.1	30	-0.1366667	Magnesium-Mg	<0.01
0.001	100	0.1	0.003	100	0.3	-0.2	30	-0.0066667	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.001	100	0.1	0.002	100	0.2	-0.1	30	-0.0033333	Nickel-Ni	<0.01
0.145	100	14.5	0.15	100	15	-0.5	30	-0.0166667	Potassium-K	<0.01
0.017	100	1.7	0.022	100	2.2	-0.5	30	-0.0166667	Selenium-Se	<0.01
0.017	100	1.7	0.01	100	1	0.7	30	0.0233333	Silver-Ag	0.02
2.488	100	248.8	3.755	100	375.5	-126.7	30	-4.2233333	Sodium-Na	<0.01
0.002	100	0.2	0.005	100	0.5	-0.3	30	-0.01	Thallium-Tl	<0.01
0.025	100	2.5	0.035	100	3.5	-1	30	-0.0333333	Zinc-Zn	<0.01

LAB ID #01090311-004

NYCDEP - BERRY & NORTH BROOKLYN

c:/JEM FILES/NYCDEP-HAZMAT/01090311.xls

<p><i>Prepared Exclusively For:</i></p> <p>NYCDEP-Emergency Response & Tech Assmt.</p> <p>96-05 Horace Harding Expressway</p> <p>Corona, NY 11368</p> <p>(718) 595-4650</p> <p>MR. M. FAWZY, DIRECTOR</p>	<p>PEDNEAULT ASSOCIATES, INC.</p> <p>1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716</p> <p>LAB NUMBER: 01090311</p> <p>PROJECT ID : WORLD TRADE CENTER - 5 Boro Air Sampling</p>
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DATE RECEIVED		RELEASE DATE		REPORT DATE
9/25/01		9/26/01		9/26/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
9/24/01 10:00 PM	01090311-005	AIR\GAS	ATLANTIC AVE. & SMITH ST., BROOKLYN	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID121/125G		0.04	mg/m3
Antimony (Sb)	OSHA ID121/125G		0.20	mg/m3
Arsenic (As)	OSHA ID121/125G		<0.01	mg/m3
Copper (Cu)	OSHA ID121/125G		0.01	mg/m3
Barium (Ba)	OSHA ID121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID121/125G		<0.01	mg/m3
Chromium (Cr)	OSHA ID121/125G		<0.01	mg/m3
Iron (Fe)	OSHA ID121/125G		<0.01	mg/m3
Lead (Pb)	OSHA ID121/125G		<0.01	mg/m3
Magnesium (Mg)	OSHA ID121/125G		<0.01	mg/m3
Manganese (Mn)	OSHA ID121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID121/125G		0.07	mg/m3
Selenium (Se)	OSHA ID121/125G		<0.01	mg/m3
Sodium (Na)	OSHA ID121/125G		<0.01	mg/m3
Thallium (Tl)	OSHA ID121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID121/125G		<0.01	mg/m3
Silver (Ag)	OSHA ID121/125G		0.09	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

SUPPLEMENTAL II

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NYS ELAP #10224
MWBE #46075

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS
AV= Air Volume Sampled
IAR=Analytical Result
IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:
$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV - BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.133	100	13.3	0.121	100	12.1	1.2	30	0.04	Aluminum-Al	0.04
0.059	100	5.9	0	100	0	5.9	30	0.1966667	Antimony-Sb	0.2
0.001	100	0.1	0	100	0	0.1	30	0.0033333	Arsenic-As	<0.01
0.004	100	0.4	0.003	100	0.3	0.1	30	0.0033333	Barium-Ba	<0.01
-0.001	100	-0.1	-0.001	100	-0.1	0	30	0	Beryllium-Be	<0.01
0.001	100	0.1	0.001	100	0.1	0	30	0	Cadmium-Cd	<0.01
0.561	100	56.1	0.661	100	66.1	-10	30	-0.3333333	Calcium-Ca	<0.01
0.009	100	0.9	0.01	100	1	-0.1	30	-0.0033333	Chromium-Cr	<0.01
0.03	100	3	0.027	100	2.7	0.3	30	0.01	Copper-Cu	0.01
0.064	100	6.4	0.182	100	18.2	-11.8	30	-0.3933333	Iron-Fe	<0.01
0.021	100	2.1	0.021	100	2.1	0	30	0	Lead-Pb	<0.01
0.107	100	10.7	0.143	100	14.3	-3.6	30	-0.12	Magnesium-Mg	<0.01
0.002	100	0.2	0.003	100	0.3	-0.1	30	-0.0033333	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.001	100	0.1	0.002	100	0.2	-0.1	30	-0.0033333	Nickel-Ni	<0.01
0.172	100	17.2	0.15	100	15	2.2	30	0.0733333	Potassium-K	0.07
0.02	100	2	0.022	100	2.2	-0.2	30	-0.0066667	Selenium-Se	<0.01
0.038	100	3.8	0.01	100	1	2.8	30	0.0933333	Silver-Ag	0.09
2.987	100	298.7	3.755	100	375.5	-76.8	30	-2.56	Sodium-Na	<0.01
0.005	100	0.5	0.005	100	0.5	0	30	0	Thallium-Tl	<0.01
0.033	100	3.3	0.035	100	3.5	-0.2	30	-0.0066667	Zinc-Zn	<0.01

LAB ID #01090311-005

NYCDEP -ATLANTIC AV & SMITH STR. BROOKLYN

c:/JEM FILES/NYCDEP-HAZMAT/01090311.xls

<p><i>Prepared Exclusively For:</i></p> <p>NYCDEP-Emergency Response & Tech Assmt.</p> <p>96-05 Horace Harding Expressway</p> <p>Corona, NY 11368</p> <p>(718) 595-4650</p> <p>MR. M. FAWZY, DIRECTOR</p>	<p>PEDNEAULT ASSOCIATES, INC.</p> <p>1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716</p> <p>LAB NUMBER: 01090311</p> <p>PROJECT ID : WORLD TRADE CENTER - 5 Boro Air Sampling</p>
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DATE RECEIVED		RELEASE DATE		REPORT DATE
9/25/01		9/26/01		9/26/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
9/24/01 11:00 PM	01090311-006	AIR\GAS	BAY ST & VICTORY BLVD., STATEN ISLAND	
PARAMETER	METHOD	RESULT	UNITS	
Aluminum (Al)	OSHA ID121/125G	<0.01	mg/m3	
Antimony (Sb)	OSHA ID121/125G	0.17	mg/m3	
Arsenic (As)	OSHA ID121/125G	0.01	mg/m3	
Copper (Cu)	OSHA ID121/125G	<0.01	mg/m3	
Barium (Ba)	OSHA ID121/125G	<0.01	mg/m3	
Beryllium (Be)	OSHA ID121/125G	<0.01	mg/m3	
Cadmium (Cd)	OSHA ID121/125G	<0.01	mg/m3	
Calcium (Ca)	OSHA ID121/125G	0.07	mg/m3	
Chromium (Cr)	OSHA ID121/125G	<0.01	mg/m3	
Iron (Fe)	OSHA ID121/125G	<0.01	mg/m3	
Lead (Pb)	OSHA ID121/125G	<0.01	mg/m3	
Magnesium (Mg)	OSHA ID121/125G	<0.01	mg/m3	
Manganese (Mn)	OSHA ID121/125G	<0.01	mg/m3	
Mercury (Hg)	OSHA ID 121/245.5	<0.01	mg/m3	
Nickel (Ni)	OSHA ID121/125G	<0.01	mg/m3	
Potassium (K)	OSHA ID121/125G	<0.01	mg/m3	
Selenium (Se)	OSHA ID121/125G	0.01	mg/m3	
Sodium (Na)	OSHA ID121/125G	1.33	mg/m3	
Thallium (Tl)	OSHA ID121/125G	0.01	mg/m3	
Zinc (Zn)	OSHA ID121/125G	<0.01	mg/m3	
Silver (Ag)	OSHA ID121/125G	0.04	mg/m3	

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

SUPPLEMENTAL II

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NYS ELAP #10224
MWBE #46075

CITY_21MC100_011064518

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)

B=Concentration of Blank in sample solution (µg/ml) or (mg/L)

SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume

BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume

RAB= Reagent Blank Concentration (µg/ml) or (mg/L)

RABSV= Reagent Blank Sample Volume

D= Dilution Factor (NONE)

NO GRAVIMETRIC FACTORS

AV= Air Volume Sampled

AR=Analytical Result

IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

A (mg/L)	SSV (mL)	A x SSV = ASSV	B (mg/L)	BSV (mL)	B x BSV = BBSV	ASSV -BBSV = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.086	100	8.6	0.121	100	12.1	-3.5	30	-0.1166667	Aluminum- Al	<0.01
0.052	100	5.2	0	100	0	5.2	30	0.1733333	Antimony-Sb	0.17
0.004	100	0.4	0	100	0	0.4	30	0.0133333	Arsenic-As	0.01
0.004	100	0.4	0.003	100	0.3	0.1	30	0.0033333	Barium-Ba	<0.01
-0.001	100	-0.1	-0.001	100	-0.1	0	30	0	Beryllium-Be	<0.01
0.001	100	0.1	0.001	100	0.1	0	30	0	Cadmium-Cd	<0.01
0.681	100	68.1	0.661	100	66.1	2	30	0.0666667	Calcium-Ca	0.07
0.008	100	0.8	0.01	100	1	-0.2	30	-0.0066667	Chromium-Cr	<0.01
0.029	100	2.9	0.027	100	2.7	0.2	30	0.0066667	Copper-Cu	<0.01
0.114	100	11.4	0.182	100	18.2	-6.8	30	-0.2266667	Iron-Fe	<0.01
0.019	100	1.9	0.021	100	2.1	-0.2	30	-0.0066667	Lead-Pb	<0.01
0.129	100	12.9	0.143	100	14.3	-1.4	30	-0.0466667	Magnesium-Mg	<0.01
0.002	100	0.2	0.003	100	0.3	-0.1	30	-0.0033333	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.001	100	0.1	0.002	100	0.2	-0.1	30	-0.0033333	Nickel-Ni	<0.01
0.148	100	14.8	0.15	100	15	-0.2	30	-0.0066667	Potassium-K	<0.01
0.025	100	2.5	0.022	100	2.2	0.3	30	0.01	Selenium-Se	0.01
0.022	100	2.2	0.01	100	1	1.2	30	0.04	Silver-Ag	0.04
4.153	100	415.3	3.755	100	375.5	39.8	30	1.3266667	Sodium-Na	1.33
0.008	100	0.8	0.005	100	0.5	0.3	30	0.01	Thallium-Tl	0.01
0.029	100	2.9	0.035	100	3.5	-0.6	30	-0.02	Zinc-Zn	<0.01

LAB ID #01090311-006

NYCDEP - BAY STR & VICTORY BLVD. SI

c:/JEM FILES/NYCDEP-HAZMAT/01090311.xls

Prepared Exclusively For: NYCDEP-Emergency Response & Tech Assmt. 96-05 Horace Harding Expressway Corona, NY 11368 (718) 595-4650 MR. M. FAWZY, DIRECTOR	PEDNEAULT ASSOCIATES, INC. 1615 NINTH AVENUE, BOX 205, BOHEMIA, N.Y. 11716 LAB NUMBER: 01090311 PROJECT ID : WORLD TRADE CENTER - 5 Boro Air Sampling
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DATE RECEIVED		RELEASE DATE		REPORT DATE
9/25/01		9/26/01		9/26/01
COLLECT DATE:	SAMPLE ID#:	MATRIX:	SAMPLE ORIGIN:	
9/24/01 5:00 PM	01090311-007	AIR\GAS	TRIP BLANKS	
PARAMETER	METHOD		RESULT	UNITS
Aluminum (Al)	OSHA ID121/125G		<0.01	mg/m3
Antimony (Sb)	OSHA ID121/125G		<0.01	mg/m3
Copper (Cu)	OSHA ID121/125G		0.03	mg/m3
Arsenic (As)	OSHA ID121/125G		<0.01	mg/m3
Barium (Ba)	OSHA ID121/125G		<0.01	mg/m3
Beryllium (Be)	OSHA ID121/125G		<0.01	mg/m3
Cadmium (Cd)	OSHA ID121/125G		<0.01	mg/m3
Calcium (Ca)	OSHA ID121/125G		0.15	mg/m3
Chromium (Cr)	OSHA ID121/125G		0.03	mg/m3
Iron (Fe)	OSHA ID121/125G		0.40	mg/m3
Lead (Pb)	OSHA ID121/125G		0.03	mg/m3
Magnesium (Mg)	OSHA ID121/125G		0.07	mg/m3
Manganese (Mn)	OSHA ID121/125G		<0.01	mg/m3
Mercury (Hg)	OSHA ID 121/245.5		<0.01	mg/m3
Nickel (Ni)	OSHA ID121/125G		<0.01	mg/m3
Potassium (K)	OSHA ID121/125G		<0.01	mg/m3
Selenium (Se)	OSHA ID121/125G		0.02	mg/m3
Sodium (Na)	OSHA ID121/125G		3.38	mg/m3
Thallium (Tl)	OSHA ID121/125G		<0.01	mg/m3
Zinc (Zn)	OSHA ID121/125G		0.01	mg/m3
Silver (Ag)	OSHA ID121/125G		0.05	mg/m3

John Pedneault
Lab Director

Reported results are reflective of TOTAL, Metals @ 2L per min/15 min run.

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NYS ELAP #10224
MWBE #46075

SUPPLEMENTAL II

CITY_21MC100_011064520

CALCULATION FOR OSHA ID121/125G-- METALS IN AIR VIA CASSETTE FILTER (37MM MILLIPORE) & MOBILE VACUUM PUMPS

A= Concentration of Analyte in sample solution (µg/ml) or (mg/L)
B=Concentration of Blank in sample solution (µg/ml) or (mg/L)
SSV= Sample Solution Volume ASSV= Analyte concentration x Sample Solution Volume
BSV=Blank Sample Volume BBSV=Blank concentration x Blank Sample Volume
RAB= Reagent Blank Concentration (µg/ml) or (mg/L)
RABSV= Reagent Blank Sample Volume
D= Dilution Factor (NONE)
NO GRAVIMETRIC FACTORS TB= TRIP/FIELD BLANK
AV= Air Volume Sampled
AR=Analytical Result
IARR=Analytical Reportable Result in mg/m³ (rounded off to 3-sigma)

$$AR = \frac{(A \times SSV) - (B \times BSV)}{AV}$$

For the Trip Blank Analytical Value:

$$AR = \frac{(B \times BSV) - (RAB \times RABSV)}{AV}$$

TB (mg/L)	BSV (mL)	TB x TBSV = BBSV	RAB (mg/L)	RABSV (mL)	RAB x RABSV = RABBSV	TB-RAB = AR	AV Liters	AR/AV	ANALYTE	ARR mg/m ³
0.121	100	12.1	0.121	100	12.1	0	30	0	Aluminum-Al	<0.01
0	100	0	0.023	100	2.3	-2.3	30	-0.0766667	Antimony-Sb	<0.01
0	100	0	0.008	100	0.8	-0.8	30	-0.0266667	Arsenic-As	<0.01
0.003	100	0.3	0.004	100	0.4	-0.1	30	-0.0033333	Barium-Ba	<0.01
-0.001	100	-0.1	0	100	0	-0.1	30	-0.0033333	Beryllium-Be	<0.01
0.001	100	0.1	0	100	0	0.1	30	0.0033333	Cadmium-Cd	<0.01
0.661	100	66.1	0.616	100	61.6	4.5	30	0.15	Calcium-Ca	0.15
0.01	100	1	0.001	100	0.1	0.9	30	0.03	Chromium-Cr	0.03
0.027	100	2.7	0.017	100	1.7	1	30	0.0333333	Copper-Cu	0.03
0.182	100	18.2	0.063	100	6.3	11.9	30	0.3966667	Iron-Fe	0.4
0.021	100	2.1	0.011	100	1.1	1	30	0.0333333	Lead-Pb	0.03
0.143	100	14.3	0.122	100	12.2	2.1	30	0.07	Magnesium-Mg	0.07
0.003	100	0.3	0.005	100	0.5	-0.2	30	-0.0066667	Manganese-Mn	<0.01
	100			100			30		Mercury-Hg	<0.01
0.002	100	0.2	0	100	0	0.2	30	0.0066667	Nickel-Ni	<0.01
0.15	100	15	0.155	100	15.5	-0.5	30	-0.0166667	Potassium-K	<0.01
0.022	100	2.2	0.016	100	1.6	0.6	30	0.02	Selenium-Se	0.02
0.01	100	1	-0.006	100	-0.6	1.6	30	0.0533333	Silver-Ag	0.05
3.755	100	375.5	2.742	100	274.2	101.3	30	3.3766667	Sodium-Na	3.38
0.005	100	0.5	0.005	100	0.5	0	30	0	Thallium-Tl	<0.01
0.035	100	3.5	0.031	100	3.1	0.4	30	0.0133333	Zinc-Zn	0.01

LAB ID #01090311-007

NYCDEP - TRIP/FIELD BLANK

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