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Services



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October 5, 2001

Vanasse Hangen Brustlin, Inc.

Ref: 06392.0095

AMEC Earth and Environmental
Attn: ROE
496 Osceola Avenue
Jacksonville Beach, Florida 32250

Re: Analytical Results/Report, Off-site soil sampling, Agreement No. NYC-041763 and New Permit Application

Dear Sirs:

In accordance with the requirements of the above referenced access agreement we are providing a summary of the analytical results/report for the soil samples collected on CSX property. Additionally, we are providing information required for a new permit to proceed with soil removal and site restoration.

Sampling was conducted on August 28, 2001. Samples were collected from the locations shown on the enclosed Figure 1. Discrete samples were collected from 12 locations with a geoprobe. The geoprobe bored 4-feet into the subsurface. The number of samples collected for analysis varied with recovery. 1 to 3 samples were collected from each location. All samples were analyzed for total lead via method 6010. Analytical results are summarized in the enclosed Table 1.

The off-site data, including previously collected data (Refer to Tables 3-4 & 3-7), indicate a removal action will be required in three of the grids shown on the Enclosed figure 1 (grids G, H, & L). Refer to the attached Figure 1 for the horizontal limits of excavation.

Remedial activities will include excavation, off-site disposal, verification sampling, and site restoration. The off-site areas will be excavated to a depth of 12 to 18-inches bgs with a track excavator. The excavator will be staged on KeySpan property where practical. Excavated soils will be loaded directly from the site into trucks for transportation and off-site disposal. Access to the CSX site will be via the fenceline located between the two properties. Subsequent to removal actions, verification samples will be collected to

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confirm that cleanup goals have been achieved. Five samples will be collected from each grid, one from the bottom, and one from each sidewall. No sidewall samples will be collected from grids adjacent to grids that require excavation.

Samples collected from grids G and H will be analyzed for lead and SVOC's per methods 6010B and 8270B respectively. Samples from grid L will be analyzed for lead only. Cleanup criteria are 400 ppm for lead, 76 ppm for SVOC's, refer to Table 2 for a detail breakdown on cleanup goals.

Excavation work in specified grids will be complete upon achievement of cleanup goals. Excavations will not extend to areas within 25-feet of the CSX track. Sample results which indicate elevated levels of lead and SVOC's within 25-feet of the track will not be removed and will be documented as part of the site IRM report.

At the conclusion of all removal and sampling work, the excavated areas will be backfilled to existing grades and/or regraded as necessary to provide for positive drainage. Only backfill from NYSDEC approved off-site sources will be used. Source and analytical data on backfill will be provided in the IRM report. Backfill will be placed and compacted in lifts. Disturbed areas will be seeded and mulched. Steep slope restoration will be supplemented with a grid membrane to prevent erosion until vegetation matures.

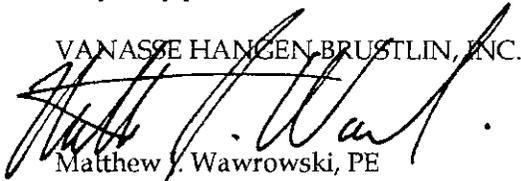
An IRM report will be produced which summarizes excavation, sampling, and site restoration activities. A copy of this report will be forwarded to AMEC/CSX per the access agreement.

Enclosed in support of this work are copies of the original application and documentation, and a new permit application and fee to perform the remedial work.

If you have any questions please call me at 716-655-2734. Please expedite our application; we would like to start this work in the next two weeks.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.



Matthew J. Wawrowski, PE

xc. T. Bell (KSE)
A. Taddeo (KSE)
J. Giordano (KSE)

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C. Conlon (KSE)
K. Frantzen (VHB)
B. Hanlon (VHB)

Enclosures

Application for Environmental Right-of-Entry

Project Owner Information:

Check here if agreement should be mailed to this address

- 1. Complete Legal Name of applicant: ~~REGISTRATION~~ KEYSPAN ENERGY DELIVERY New York
- 2. Company Contact Name: JOE GIORDANO Title: LEGAL DEPARTMENT
- 3. Telephone: (516) 345-4790 Fax: (516) 345-5029
- 4. Address: 175 EAST OLD COUNTRY RD. City: HICKSVILLE State: NY Zip: 11801
- 5. Type of business: Corporation, (State of incorporation: _____), _____ Partnership, (type and state of Partnership _____), _____ Individual, _____ Developer, _____ Municipality

Engineer/Consultant Information:

Check here if agreement should be mailed to this address

- 6. Company Name: VHR, INC.
- 7. Company Contact Name: MATT WAWROUSKI Title: SR. PROJECT ENG.
- 8. Telephone: (716) 655-2734 Fax: (716) 655-2471
- 9. Address: ~~13470 BOAR~~ 13470 BOAR RD. City: COWLEVILLE State: NY Zip: 14037

Project Information:

Application Date: 10/9/01

- 10. Your Reference No.: 16392.00095
- 11. Location: NEWTOWN ELMHURST HOLDER SITE
City: ELMHURST County: QUEEN'S State: NY
- 12. Field Measurement (REQUIRED): _____ feet (direction) from Railroad Milepost
QR _____ feet (direction) from Rd Xing: Rd Name (*) DOT/AAR# (*)
- 13. Project Description: (*) NO MILE POSTS IN VICINITY OF SITE
(*) SECTION OF TRACK WHERE WORK WILL OCCUR IS ON THE EAST SIDE OF TRACK BETWEEN 57TH AND GRAND AVE.
WORK INVOLVED EXCAVATION, BACKFILL, AND SAMPLING
- 14. How close will the project be to the nearest track? 25 feet
- 15. Does work on CSXT right-of-way include:
soil borings? _____ monitoring wells? _____ remediation/construction?
- 16. What sampling/work will be done on CSXT right-of-way? VERIFICATION SAMPLING IN COMPLETE EXCAVATIONS. ANALYSIS FOR LEAD AND SVOC'S
- 17. What is the source of contamination? LEAD PIPED PAINT, HOLDERS
- 18. Is this request related to investigation of a State or Federal "Superfund" site? No Yes _____
If Yes, State or Federal Ref. No.: N/A
If No, Explain reason for the work VOLUNTARY CLEANUP AGREEMENT (VCA) w/ NYS DEC
- 19. How did you verify that property and/or trackage is CSXT's? COMMUNICATIONS W/ CSX
- 20. Expected length of project (on CSXT R/W): begin date: 10/29/01 completion date: 11/23/01
Requested Expiration date of contract: 1/01 (allow for follow-up monitoring/work)

Railroad Use Only

- 21. Env. Project No.: _____
- 22. Region: _____ Subdivision: _____
- 23. M.P. _____ V.S. _____ Val. Map No.: _____
- 24. Agmt. Term: Tenant-at-will (can be cancelled on 30 days' notice) QR Specify Exp. date _____
- 25. File Review date: _____ Fees attached? Y N Explain: _____
- 26. Comments: _____
- 27. Additional distribution: _____
- 28. Approved? Yes _____ No _____ By: _____

Table 1 - Newtown Western Off-site Sample Results

DATE	TIME	CLIENT ID	SAMPLE TYPE	METHOD	PARAMETER	PCODE	ANALYSIS DATE	RESULT	FLAGS	UM
8/28/2001	09:19	RRSB-01 (12-24)	FS	P	Lead - Total	T7439-92-1	9/1/2001	3.6000		MG/KG
8/28/2001	09:26	RRSB-02 (12-24)	FS	P	Lead - Total	T7439-92-1	9/1/2001	50.7000		MG/KG
8/28/2001	09:26	RRSB-02 (24-36)	FS	P	Lead - Total	T7439-92-1	9/1/2001	61.3000		MG/KG
8/28/2001	09:35	RRSB-03 (06-12)	FS	P	Lead - Total	T7439-92-1	9/1/2001	122.0000		MG/KG
8/28/2001	09:35	RRSB-03 (12-24)	FS	P	Lead - Total	T7439-92-1	9/1/2001	781.0000		MG/KG
8/28/2001	09:43	RRSB-04 (0-12)	FS	P	Lead - Total	T7439-92-1	9/1/2001	263.0000		MG/KG
8/28/2001	09:43	RRSB-04 (12-18)	FS	P	Lead - Total	T7439-92-1	9/1/2001	20.3000		MG/KG
8/28/2001	10:09	RRSB-05 (04-12)	FS	P	Lead - Total	T7439-92-1	9/1/2001	62.6000		MG/KG
8/28/2001	10:09	RRSB-05 (12-24)	FS	P	Lead - Total	T7439-92-1	9/1/2001	38.7000		MG/KG
8/28/2001	10:27	RRSB-06 (06-12)	FS	P	Lead - Total	T7439-92-1	9/1/2001	247.0000		MG/KG
8/28/2001	10:27	RRSB-06 (12-24)	FS	P	Lead - Total	T7439-92-1	9/1/2001	46.0000		MG/KG
8/28/2001	10:50	RRSB-07 (06-18)	FS	P	Lead - Total	T7439-92-1	9/1/2001	1210.0000		MG/KG
8/28/2001	10:50	RRSB-07 (18-24)	FS	P	Lead - Total	T7439-92-1	9/1/2001	121.0000		MG/KG
8/28/2001	11:04	RRSB-08 (06-12)	FS	P	Lead - Total	T7439-92-1	9/1/2001	267.0000		MG/KG
8/28/2001	11:04	RRSB-08 (12-18)	FS	P	Lead - Total	T7439-92-1	9/1/2001	429.0000		MG/KG
8/28/2001	11:17	RRSB-09 (06-12)	FS	P	Lead - Total	T7439-92-1	9/1/2001	8.5000		MG/KG
8/28/2001	11:17	RRSB-09 (12-24)	FS	P	Lead - Total	T7439-92-1	9/1/2001	5.6000		MG/KG
8/28/2001	11:17	RRSB-09 (24-36)	FS	P	Lead - Total	T7439-92-1	9/1/2001	3.0000		MG/KG
8/28/2001	11:26	RRSB-10 (06-18)	FS	P	Lead - Total	T7439-92-1	9/1/2001	20.9000		MG/KG
8/28/2001	11:26	RRSB-10D(06-18)	FD	P	Lead - Total	T7439-92-1	9/1/2001	14.8000		MG/KG
8/28/2001	9:19	RRSB-01 (6-12)	FS	P	Lead - Total	T7439-92-1	9/6/2001	6.3000	EN	MG/KG
8/28/2001	11:45	RRSB-11 (06-12)	FS	P	Lead - Total	T7439-92-1	9/6/2001	20.2000	EN	MG/KG
8/28/2001	11:53	RRSB-12 (06-12)	FS	P	Lead - Total	T7439-92-1	9/6/2001	103.0000	EN	MG/KG
8/28/2001	11:53	RRSB-12 (12-18)	FS	P	Lead - Total	T7439-92-1	9/6/2001	163.0000	EN	MG/KG

Table - 2
Calculation of Restoration Goals
Future Child On-Site Resident - Soils
Newtown Station/Elmhurst Holder Tank Site

Chemical	EPC (mg/kg)	Total Cancer Risk	Total Noncancer Hazard	Goals For Carcinogens Cancer Risk Level		
				(mg/kg)	1.0E-06	1.0E-05
<i>Semi-volatile Organic Compounds</i>						
2,4-Dimethylphenol	3.00E-02	NC	2.35E-06	NC	NC	NC
2-Methylnaphthalene	1.40E+01	NC	9.58E-04	NC	NC	NC
2-Methylphenol	2.00E-02	NC	6.27E-07	NC	NC	NC
4-Methylphenol	6.50E-02	NC	2.04E-04	NC	NC	NC
Acenaphthene	4.70E+00	NC	1.86E-04	NC	NC	NC
Acenaphthylene	2.45E-01	NC	6.90E-05	NC	NC	NC
Anthracene	5.24E+00	NC	5.02E-05	NC	NC	NC
Benzo(a)anthracene	8.47E+00	1.26E-05	6.08E-03	6.72E-01	6.72E+00	6.72E+01
Benzo(a)pyrene	6.41E+00	9.54E-05	4.60E-03	6.72E-02	6.72E-01	6.72E+00
Benzo(b)fluoranthene	6.23E+00	9.27E-06	4.47E-03	6.72E-01	6.72E+00	6.72E+01
Benzo(g,h,i)perylene	1.48E+00	NC	1.06E-03	NC	NC	NC
Benzo(k)fluoranthene	4.74E+00	7.05E-07	3.40E-03	6.72E+00	6.72E+01	6.72E+02
Benzoic acid	1.60E-01	NC	6.89E-07	NC	NC	NC
Benzyl alcohol	5.40E-02	NC	1.53E-06	NC	NC	NC
bis(2-Ethylhexyl)phthalate	4.59E-01	8.26E-09	3.44E-04	5.56E+01	5.56E+02	5.56E+03
Butylbenzylphthalate	3.80E-01	NC	1.16E-05	NC	NC	NC
Carbazole	3.12E+00	1.19E-07	NA	2.63E+01	2.63E+02	2.63E+03
Chrysene	6.95E+00	1.03E-07	4.99E-03	6.72E+01	6.72E+02	6.72E+03
Dibenzo(a,h)anthracene	8.97E-01	1.21E-05	6.44E-04	7.42E-02	7.42E-01	7.42E+00
Dibenzofuran	2.90E+00	NC	1.72E-02	NC	NC	NC
Diethylphthalate	1.00E-02	NC	2.15E-08	NC	NC	NC
Di-n-butylphthalate	2.94E-01	NC	5.38E-05	NC	NC	NC
Di-n-octylphthalate	1.90E-01	NC	1.82E-04	NC	NC	NC
Fluoranthene	1.57E+01	NC	9.32E-04	NC	NC	NC
Fluorene	3.16E+00	NC	1.88E-04	NC	NC	NC
Indeno(1,2,3-cd)pyrene	2.08E+00	3.10E-06	1.49E-03	6.72E-01	6.72E+00	6.72E+01
Isophorone	9.00E-03	1.62E-11	4.98E-07	5.55E+02	5.55E+03	5.55E+04
Naphthalene	1.70E+00	NC	1.38E-03	NC	NC	NC
Pentachlorophenol	2.50E-01	4.42E-08	1.43E-04	5.66E+00	5.66E+01	5.66E+02
Phenanthrene	2.23E+01	NC	1.60E-02	NC	NC	NC
Phenol	3.80E-02	NC	1.26E-06	NC	NC	NC
Pyrene	9.53E+00	NC	7.55E-04	NC	NC	NC

NC: Carcinogenic toxicity values (i.e., slope factors) not available or not applicable.

NA: Noncarcinogenic toxicity values (i.e., reference doses) not available.

7.19E+02 10.58%

SVOCs cleanup goal:

7.61E+01

The sum of the cleanup levels for all SVOCs back-calculated from a 1E-06 risk level is 7.19E+02.

The cPAHs are approximately 11% of this which obviously means the cPAH cleanup goals are generally lower than the other SVOCs which is to be expected.

If all SVOCs were present at a concentration corresponding to a 1E-6 level, we still would not exceed the 1E-04 risk level.

Therefore, a **total** cPAH value of 76 mg/kg is reasonable, however, the contribution of each cPAH to the total cPAH value would have to be approximately the same as it is in these calculations. The reason being b(a)p is considerably more potent than chrysene, and if b(a)p comprised the majority of the cPAH concentration, you could exceed the 1E-04 risk level.

**Table 3-4 - Surface Soil Samples (Continued)
Summary of Semivolatile Organic Constituent Results**

Analyte	Sample Collection Designation & Collection Date							
	NSSS-25 10/27/00	NSSS-25(DL) 10/27/00	NSSS-26 10/27/00	NSSS-27 11/06/00	NSSS-28 11/06/00	NSSS-29 11/06/00	NSSS-30 11/06/00	
Phenol	360 U	3600 U	350 U	60 J	2000 U	2200 U	1900 U	
1,4-Dichlorobenzene	360 U	3600 U	350 U	2100 U	2000 U	2200 U	1900 U	
Benzyl alcohol	360 U	3600 U	350 U	2100 U	2000 U	2200 U	1900 U	
2-Methylphenol	360 U	3600 U	350 U	2100 U	2000 U	2200 U	1900 U	
4-Methylphenol	360 U	3600 U	350 U	100 J	2000 U	75 J	1900 U	
Isophorone	360 U	3600 U	350 U	2100 U	2000 U	2200 U	1900 U	
2,4-Dimethylphenol	360 U	3600 U	350 U	2100 U	2000 U	2200 U	1900 U	
Benzoic acid	1700 U	17000 U	1700 U	430 J	9600 U	11000 U	99 J	
Naphthalene	9 J	3600 U	10 J	340 J	130 J	350 J	440 J	
2-Methylnaphthalene	360 U	3600 U	350 U	260 J	100 J	300 J	430 J	
Dimethylphthalate	360 U	3600 U	350 U	130 J	2000 U	2200 U	1900 U	
Acenaphthylene	47 J	3600 U	78 J	330 J	170 J	620 J	3200	
Acenaphthene	48 J	3600 U	30 J	290 J	150 J	220 J	330 J	
Dibenzofuran	28 J	3600 U	15 J	220 J	91 J	160 J	490 J	
Diethylphthalate	360 U	3600 U	350 U	2100 U	2000 U	2200 U	1900 U	
Fluorene	60 J	3600 U	33 J	340 J	190 J	200 J	540 J	
N-Nitrosodiphenylamine	360 U	3600 U	350 U	2100 U	2000 U	2200 U	1900 U	
Pentachlorophenol	1700 U	17000 U	1700 U	10000 U	9600 U	11000 U	9400 U	
Phenanthrene	520	510 J	400	2800	1700 J	3100	6400	
Anthracene	110 J	3600 U	130 J	810 J	580 J	1300 J	4100	
Carbazole	43 J	3600 U	53 J	350 J	220 J	460 J	730 J	
Di-n-butylphthalate	360 U	3600 U	42 J	150 J	100 J	270 J	1900 U	
Fluoranthene	480	530 J	580	3900	2900	6000	10000	
Pyrene	590	550 J	870	2400	1500 J	3200	7400	
Butylbenzylphthalate	360 U	3600 U	43 J	240 J	330 J	360 J	200 J	
Benzo(a)anthracene	300 J	260 J	450	1900 J	1400 J	3000	7100	
Chrysene	440	320 J	570	2400	1600 J	3800	8000	
bis(2-Ethylhexyl)phthalate	140 J	3600 U	220 J	3400	830 J	1400 J	690 J	
Di-n-octylphthalate	360 U	3600 U	350 U	2100 U	240 J	2200 U	1900 U	
Benzo(b)fluoranthene	280 J	300 J	370	1900 J	1400 J	3200	5600	

<i>Benzo(k)fluoranthene</i>	350 J	360 J	470	1800 J	1200 J	3400	4400
<i>Benzo(a)pyrene</i>	330 J	3600 U	440	1800 J	1100 J	2800	5300
<i>Indeno(1,2,3-cd)pyrene</i>	270 J	3600 U	520	400 J	240 J	640 J	2400
<i>Dibenzo(a,h)anthracene</i>	89 J	3600 U	240 J	140 J	90 J	260 J	1000 J
<i>Benzo(g,h,i)perylene</i>	250 J	3600 U	580	360 J	220 J	480 J	1600 J

All results and guidance values reported in micrograms per kilogram (ug/Kg), or parts per billion (ppb).
 Compounds indicated in bold and italics represent Potentially Carcinogenic Polycyclic Aromatic Hydrocarbons (CPAHs).
 (DL) - Indicates sample run at secondary dilution factor
 (RE) - Indicates sample reanalyzed due to matrix interference.
 U - Indicates that the compound was analyzed for but not detected.
 J - Indicates that compound was analyzed for and determined to be present in the sample. However, the concentration indicated is an estimated value which is less than the specified min
 B - Indicates that the analyte was found in the blanks as well as in the sample, i.e. indicates possible sample contamination.
 D - Identifies compounds identified in an analysis at a secondary dilution factor.

NSSS-31	NSSS-31(RE)	NSSS-32
11/06/00	11/06/00	11/06/00
22 J	22 J	2000 U
370 U	370 U	2000 U
370 U	370 U	2000 U
370 U	370 U	2000 U
370 U	370 U	44 J
370 U	370 U	2000 U
370 U	370 U	2000 U
1800 U	1800 U	9700 U
51 J	50 J	350 J
51 J	50 J	310 J
32 J	30 J	2000 U
61 J	70 J	2300
25 J	26 J	300 J
18 J	18 J	440 J
370 U	370 U	2000 U
19 J	18 J	770 J
21 J	21 J	2000 U
1800 U	1800 U	9700 U
270 J	260 J	7000
100 J	110 J	3100
45 J	45 J	780 J
32 J	32 J	2000 U
500	540	13000
500	560	11000
140 J	190 J	170 J
290 J	290 J	8700
390	380	9900
750	870	620 J
460	440	2000 U
320 J	340 J	7900

280 J	330 J	6600
250 J	270 J	6500
110 J	88 J	4200
69 J	370 U	1700 J
120 J	93 J	3400

imum detection limit but is greater than zero.

**Table 3-7 - Surface Soil Samples (Continued)
Summary of Inorganic Constituent Results (RCRA Metals)**

Analyte	Sample Collection Designation & Collection Date									
	NSSS-20 10/26/00	NSSS-21 10/26/00	NSSS-22 10/27/00	NSSS-23 10/27/00	NSSS-25 10/27/00	NSSS-26 10/27/00	NSSS-27 11/06/00	NSSS-28 11/06/00		
Arsenic	25.1	21.9 N	8.6 N	5.1 N	3.5 N	4.0 N	5.2 N	5.1 N		
Barium	114	120	51.2	49.2	28.9 B	40.9 B	198	143		
Cadmium	1.9	0.97 B	0.094 U	0.10 U	0.096 U	0.12 U	2.1	1.9		
Chromium	28.2 *	36.7	16.6	16.7	10.4	14.0	328	72.2		
Lead	949 *	349	81.9	78.5	29.7	47.8	1850	1170		
Mercury	0.44	0.36 N	0.090 N	0.13 N	0.042 N	0.084 N	0.23 N	0.25 N		
Selenium	2.2 N	2.1 N	1.2 N	1.0 UN	1.7 N	1.3 N	1.6 N	1.2 UN		
Silver	0.82 B	0.48 B	0.19 U	0.21 U	0.41 B	0.23 U	1.9 B	2.1 B		

Sample Collection Designation & Collection Date

Analyte	Sample Collection Designation & Collection Date		
	NSSS-29 11/06/00	NSSS-30 11/06/00	NSSS-31 11/06/00
Arsenic	5.1 N	12.6 N	6.5 N
Barium	161	166	98.6
Cadmium	0.48 B	1.6	0.89 B
Chromium	28.3	59.3	41.2
Lead	305	935	214
Mercury	3.6 N	0.70 N	0.36
Selenium	1.2 UN	1.3 N	1.1 UN
Silver	0.23 U	1.2 B	0.86 B

All results and guidance values reported in milligrams per kilogram (mg/kg), or parts per million (ppm).

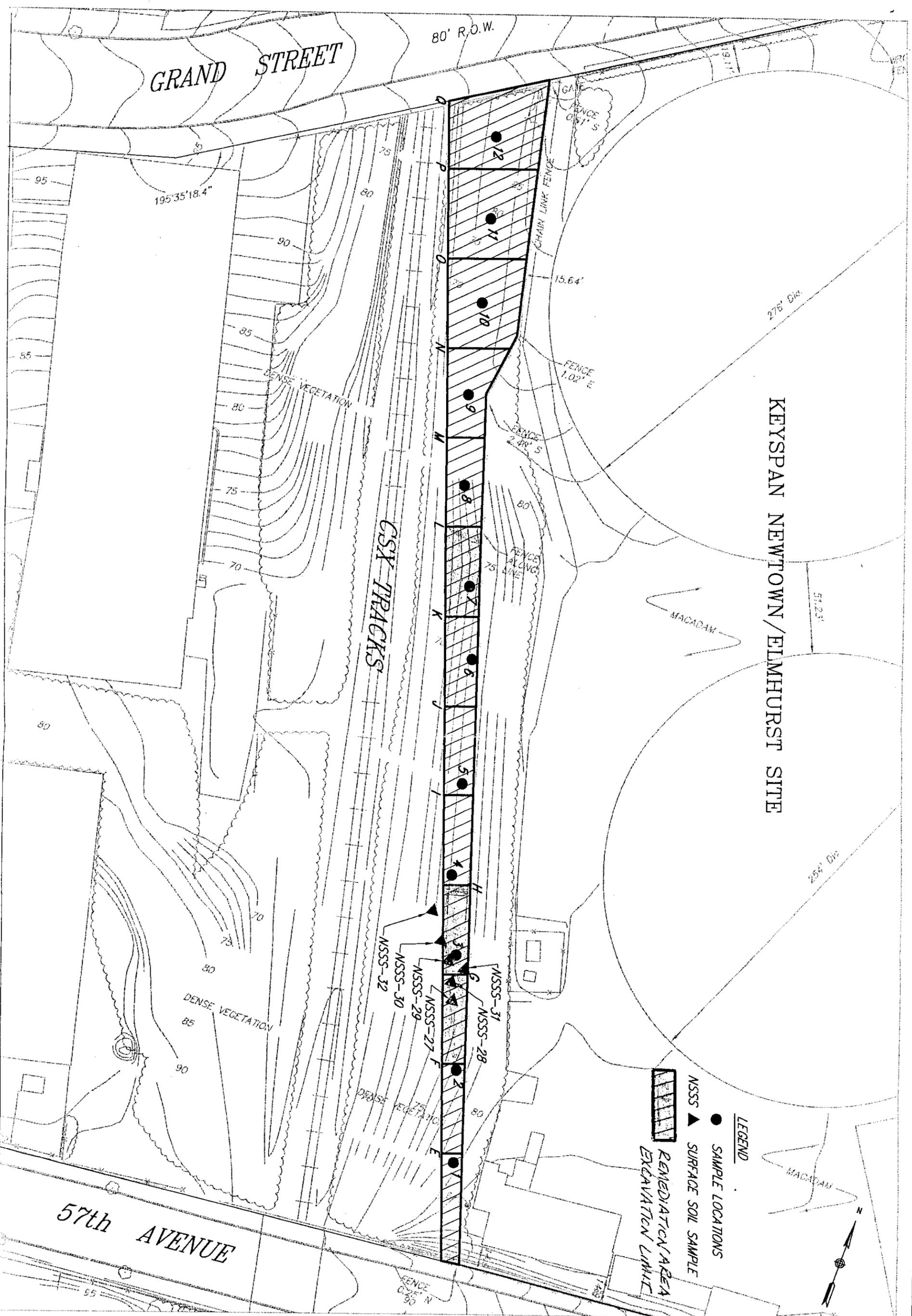
U - Indicates analyte was not detected at method reporting limit

B - Indicates result between instrument detection limit (IDL) and contract required detection limit (CRDL)

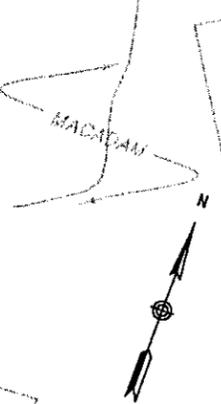
N - Spiked sample recovery not within control limits

* - Duplicate analysis not within control limits

KEYSPAN NEWTOWN/ELMHURST SITE

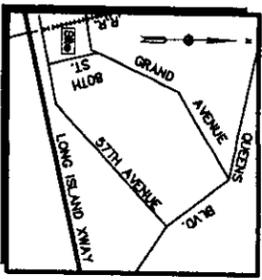


- LEGEND**
- SAMPLE LOCATIONS
 - ▲ SURFACE SOIL SAMPLE
 - ▨ REMEDIATION AREA EXCAVATION LIMIT



WHIBB
 Vanessa Hansen Brunick, Inc.
 Transportation
 Lead Development
 Environmental Services
 54 7th Flors
 Middletown, Connecticut 06457
 860 633 1250 - FAX 860 633 7879

KEYSPAN ENERGY



Project No.	1-587
Project Name	June 2, 2001
Client	Keyspan Energy
City and State of New York	Newtown, Second Ward of The Borough of Queens
Draft	
Scale	1" = 1'
Date	06/29/01

Off Site Sample Locations



May 8, 2001

VHB Engineering - NY, P.C.

Ref: 063902.00093

AMEC Earth and Environmental, Inc.
Attn: ROE
496 Osceola Avenue
Jacksonville Beach, Florida 32250

Re: Application for Permit – Newtown/Elmhurst Holder Site, Elmhurst, NY
Work Description

Dear Sirs:

Per correspondence provided by CSXT, the following paragraphs provide a work description as required for an Application for Right-of-Entry to Property of CSX Transportation, Inc.

SOURCE OF CONTAMINATION

Paint chips and water from former gas holders on site.

LEAD REGULATORY AGENCY

New York State Department of Environmental Conservation (NYSDEC).

CONTAMINANTS OF CONCERN

Lead and carcinogenic polycyclic aromatic hydrocarbons (CPAHs).

CONTAMINANT CONCENTRATIONS AT CSXT PROPERTY LINE

Lead – 196,000 mg/kg in surface soil (0-4”), Total CPAH’s – 1,754 ug/kg in surface soil (0-6”).

DIRECTION OF CONTAMINANT MIGRATION AND GROUNDWATER FLOW

Surface soil contaminants on slopes adjacent to the ROW may be moving via gravity/overland flow west. Groundwater flow at the subject site is radial, with general flow in a northern direction.

RATIONALE FOR SAMPLING AND DEPTH

Comprehensive investigation of the source area indicates COC’s are limited surface and shallow subsurface soils. The ROW is located west and downhill of source area. Therefore grid sampling will be conducted at 50

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foot intervals along the entire west property line, and samples will be collected from 3 discrete intervals over the 0-4ft bgs range from the center of each grid. 13 sample locations, 39 samples.

SAMPLE ANALYSIS AND METHODS

Lead by Method 6010, CPAHs by Method 8270C.

START DATE AND DURATION

June 4, 2001 through July 3, 2001

DESCRIPTION OF ANY PROPOSED CONSTRUCTION WORK

Pending analytical results, excavation of soils may be required. Anticipated limits of work are shown on the attached drawing. Access will be via KeySpan property. One backhoe style excavator will be used to transfer soils directly to truck located on KeySpan property. Long stick excavators will be used to maintain minimum clearances of tracks. No track crossing is required. No work is anticipated within 25-feet of the track.

HORIZONTAL AND VERTICAL EXCAVATION LIMITS

Vertical limit should be between 12 and 18-inches based on previous investigation data. Horizontal limit will be defined by grid sampling. Horizontal limits will not exceed limits shown on attached figure.

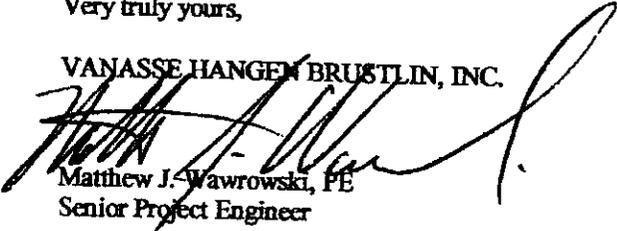
PROPOSED CLEANUP GOALS

Lead - Site background or 600 mg/kg.

Call us at 716-655-2734 if you have any questions or require further information.

Very truly yours,

VANASSE HANGEN BRUSTLIN, INC.



Matthew J. Wawrowski, PE
Senior Project Engineer

Enclosures

Application for Environmental Right-of-Entry

Project Owner Information:

Check here if agreement should be mailed to this address

- 1. Complete Legal Name of applicant: KEYSPAN ENERGY DELIVERY NEW YORK
- 2. Company Contact Name: CHRIS CONLON Title: ENV. ENG. - SPECIAL PROJECTS
- 3. Telephone: (631) 391-6298 Fax: (718) 963-3026
- 4. Address: 445 BROADHOLLOW RD City: MELVILLE State: NY Zip: 11747
- 5. Type of business: Corporation, (State of incorporation: NY), Partnership, (type and state of Partnership _____), Individual, Developer, Municipality

Engineer/Consultant Information:

Check here if agreement should be mailed to this address

- 6. Company Name: VHB, INC.
- 7. Company Contact Name: MATT WAWROWSKI Title: SR. PROJECT ENGINEER
- 8. Telephone: (716) 655-2734 Fax: (716) 655-8471
- 9. Address: 13470 BEAR RD. City: COWLESVILLE State: NY Zip: 14037

Project Information:

Application Date: 5/8/01

10. Your Reference No.: 06392.00093

- 11. Location: NANTQUIN ELMHURST HOLDER SITE
City: ELMHURST County: QUEENS State: NY
- 12. Field Measurement (REQUIRED): _____ feet (direction) from Railroad Milepost
 _____ feet (direction) from Rd Xing: Rd Name DOT/AAR# _____
- 13. Project Description: NO MILE POSTS FOUND IN VICINITY OF SITE.
 SECTION OF TRACK WHERE WORK WILL OCCUR IS ON THE EAST SIDE OF TRACK BETWEEN 5TH AND 6TH. WORK INVOLVES SOIL SAMPLING AND EXCAVATION/RESTORATION.
- 14. How close will the project be to the nearest track? 25 feet
- 15. Does work on CSXT right-of-way include:
soil borings? monitoring wells? _____ remediation/construction?
- 16. What sampling/work will be done on CSXT right-of-way? SHALLOW SUBSURFACE (0-4' BGS) GEOPROBE BORINGS. EXCAVATION OF SOILS TO DEPTHS ANTICIPATED OF NO MORE THAN 1.5'
- 17. What is the source of contamination? LEAD BASED PAINT
- 18. Is this request related to investigation of a State or Federal "Superfund" site? No Yes _____
If Yes, State or Federal Ref. No.: N/A
If No, Explain reason for the work: VOLUNTARY CLEANUP AGREEMENT (VCA) w/ NYSDEC
- 19. How did you verify that property and/or trackage is CSXT's? YES
- 20. Expected length of project (on CSXT R/W): begin date: 5/01 completion date: 8/01
Requested Expiration date of contract: 12/01 (allow for follow-up monitoring/work)

Railroad Use Only

- 21. Env. Project No.: _____
- 22. Region: _____ Subdivision: _____
- 23. M.P. _____ V.S. _____ Vol. Map No.: _____
- 24. Agmt. Term: Tenant-at-will (can be cancelled on 30 days' notice) _____ OR Specify Exp. date _____
- 25. File Review date: _____ Fees attached? Y N Explain: _____
- 26. Comments: _____
- 27. Additional distribution: _____
- 28. Approved? Yes No By: _____

