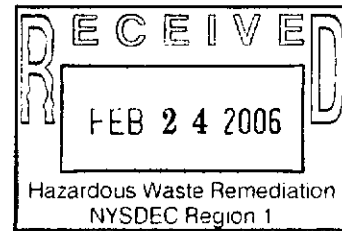




February 21, 2006

Mr. Girish Desai
New York Department of Environmental Conservation
Division of Environmental Remediation
Building 40 – SUNY, Stony Brook
Stony Brook, New York 11790-2356



Re: Supplemental Soil Vapor Sampling Plan
Former Columbia Cement Company Facility
Freeport, New York
Site ID No. 130052

Dear Mr. Desai:

As requested by the New York Department of Environmental Conservation' (NYSDEC), URS Corporation (URS) is pleased to present this Supplemental Soil Vapor Sampling Plan for the former Columbia Cement Company facility in Freeport, New York (Site). This Sampling Plan is presented in response to NYSDEC's December 28, 2005, email comments on previous soil gas sampling data submitted to NYSDEC on November 28, 2005.

Soil-Vapor Contaminants of Concern (COCs)

Soil vapor sampling conducted in September 2005 and documented in the November report included sampling soil vapor from 11 probes and sampling ambient air with laboratory analyses for TO-15 compound list conducted on each sample. Various volatile organic compounds were detected in one or more of the soil gas samples and in the ambient air sample. NYSDEC requested that as part of the supplemental soil gas sampling plan, that a list of soil vapor Contaminants of Concern be identified for use in future soil vapor sampling and analyses that may be considered. To develop such a list, URS considered the compounds identified in the sampling, compounds associated with Site activities and compounds associated with the original 1988 1,1,1-TCA spill (1,1,1-TCA and its degradation products). We also considered New York State Department of Health (NYSDOH) and United States Environmental Protection Agency (USEPA) soil vapor guidance values and criteria. We have summarized this information on Table, 1, attached, which presents a screening of the TO-15 compound list based on the following:

- Compounds detected in the September 2005 Soil Gas Sampling Event.
- Compounds detected in ambient air.
- Compounds detected at concentrations exceeding the USEPA Target Shallow Soil Gas Concentration Corresponding to Indoor Air Concentration where SG/IA Attenuation Factor = 0.1 with a Risk Factor of 10^{-6} , *Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils* (USEPA, 1999).

URS Corporation
12 Commerce Drive
Cranford, NJ 07016-3549
Tel: 908.272.8300
Fax: 908.272.3940

w:\Columbia Cement\38546433

- Compounds detected at concentrations exceeding the NYDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York (Draft)*.
- Compounds related to the 1988 1,1,1-TCA spill (1,1,1-TCA and its degradation daughter products).
- Compounds Historically stored on site in USTs.

As indicated on this table, the only compounds that were detected in soil vapor at concentration exceeding the NYSDOH or USEPA guidance criteria and which also are related to the 1988 spill or former UST storage tanks are 1,1-dichloroethane, hexane, methylene chloride, tetrachloroethene and vinyl chloride. Therefore, these compounds have been selected as COCs for use in future soil vapor monitoring on Site. In order to present a more conservative approach to future sampling, the COC list future soil vapor monitoring has been expanded beyond these compounds to include benzene and trichloroethene since these compounds also were detected at concentrations that exceed NYSDOH or USEPA guidance criteria. It is noted that each of these COC compounds except 1,1-dichloroethane and vinyl chloride also are present in the ambient air sample which suggests that their presence may be attributable at least in part to ambient air conditions. None of the other compounds detected in soil gas samples exceeded the guidance criteria. Based on this screening, an appropriate and conservative set of COCs is:

- Benzene;
- 1,1-Dichloroethane;
- Hexane;
- Methylene Chloride
- Tetrachloroethene
- Trichloroethene; and
- Vinyl Chloride.

URS has revised the figure with soil gas sampling results previously submitted to NYSDEC to include only the COCs (Attached). It should be noted that although benzene and trichloroethene are identified as COCs to be included in future analyses, these compounds are not related to the original 1,1,1- TCA spill, and BP does not consider itself responsible for remediation of compounds unrelated to its activities.

Soil-Vapor Sampling Plan

NYSDEC requested that BP conduct supplemental soil vapor sampling and analyses including consideration of sub-slab vapor and indoor air samples inside the Site building, as well as evaluation of offsite soil vapor migration. It is noted that one round of soil vapor sample data has been collected in site and historical indoor air sampling at adjacent property to the south did not identify VOCs. In addition, the existing Site building is undergoing RCRA closure and interior cleanup by the current owner. Residual materials related to

prior operations and staining are present and details of site building conditions are not known. Accordingly, prior to considering sub slab vapor sampling and offsite these steps, a confirmatory round of soil vapor sampling using selected soil vapor points installed at the Site and further evaluation of conditions that would effect such activities are proposed.

URS will collect soil vapor samples from soil vapor points SG-05-01, SG-05-04, SG-05-06, SG-05-08, SG-05-10 and SG-05-11. The samples will be collected in general accordance with the protocols described in the NYSDOH document "Guidance for Evaluating Soil Vapor Intrusion in the State of New York, PUBLIC COMMENT DRAFT," dated February 2005 and be analyzed for the COC list presented above.

Samples will be obtained using laboratory supplied pre-cleaned 6-liter SUMMA ® canisters. To evaluate the potential for "short circuit" of ambient air into soil vapor samples, a small polyethylene bucket, equipped with purge and vent ports as well as a grommet equipped with a ¼-inch diameter hole for the sampling tube will be placed upside down over the hole, with the sampling tube passing through the bottom of the bucket. A foam rubber gasket will be placed around the bucket edge, which will act as a seal between the bucket and the slab surface around the sampling point. The purge and vent ports on the bucket will be opened and helium will be introduced into the bucket space until an 80 to 100 percent concentration is measured at the vent port. Both ports will then be closed.

The sampling line will be purged at 200 cc/min and checked for helium intrusion and, if, 10 percent helium or less is measured, sampling for sub-slab vapors will be initiated. The soil vapor sampling line will be attached to the SUMMA Canister after the pre-sampling vacuum has been recorded and an air sample will be collected at a maximum of 200 cc/min. for 1 hour (6 liters in total). During the sampling period, the sampling line will be monitored periodically for the presence of helium by means of a tee port on the sampling line. Sampling will be interrupted and corrective action will be taken should helium be present at a concentration of greater than 10 percent. During the sampling period, the vacuum reading will be monitored.

After the sampling has been completed, the SUMMA canister vacuum readings will be recorded, chain-of-custody documentation will be completed, and the samples will be forwarded to the Accutest Laboratories, an ELAP certified laboratory for analysis. Sample analysis will be performed following the U.S. EPA Compendium Method TO-15: Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS) (1999). Samples will be analyzed for only those COCs listed on Table 1.

Upon receipt of laboratory data, URS will prepare a letter report for submittal to NYSDEC and NYDOH. The report will summarize the sampling results, including a comparison to previous results. The letter report will also present recommendations for additional soil vapor and/or sub-slab vapor sampling.

Mr. Girish Desai
February 21, 2006
Page - 4 -


URS will review existing building information and response actions as made available by the site owner. We will perform a visual inspection of the building. URS will observe the condition of the floor slab and locations for potential vapor intrusion, including, but not limited to cracks, sumps, floor drains, and utility access ports. Floor staining or other potential sources of indoor vapors will also be noted. URS will also evaluate the ventilation system and note the locations of vents, intakes, fans, etc. URS will also review the results of prior indoor air sampling conducted at the adjacent property to the south. Based on the results of these activities, a proposal to conduct further soil vapor evaluations will be developed and presented to NYSDEC.


—oOo—

URS is currently preparing a report summarizing all of the data collected by URS since the Remedial Investigation was conducted by Delaware Engineering. URS is also preparing a Feasibility Study (FS) for remedial alternatives at the Site. The FS will consider soil gas data as well as other site information in analyzing remedial options for the site. It should be noted that the Site building remains unoccupied. The Supplemental Investigation Report and Feasibility Study will be submitted to NYSDEC shortly. Should you have any questions or comments, please feel free to contact us.

Very truly yours,

URS CORPORATION


for Anthony O. Kaufman
Associate


Mark T. Becker, P.G.
Senior Geologist

AOK/MTB/jhm

cc: D. Ripstein - NYDOH
C. Wein - Atlantic Richfield
K. Endriss - Atlantic Richfield

**TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK**

CAS No.	GC/MS Volatiles	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁶		SG-05-01 09/21/05 J10451-6		SG-05-02 09/20/05 J10451-7		SG-05-03 09/21/05 J10451-3		SG-05-04 09/21/05 J10451-5	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
67-64-1	Acetone	3,500	1,500	19 U	8 U	16	6.9	3.8 U	1.6 U	3.8 U	1.6 U
106-99-0	1,3-Butadiene	0.087	0.039	18 U	8 U	3.5 U	1.6 U	3.5 U	1.6 U	3.5 U	1.6 U
71-43-2	Benzene	3.1	0.98	61.3	19.2	14	4.3	99.4	31.1	237	74.2
75-27-4	Bromodichloromethane	1.4	0.21	54 U	8 U	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U
75-25-2	Bromoform	22	2.1	83 U	8 U	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U
74-83-9	Bromomethane	50	13	31 U	8 U	6.2 U	1.6 U	6.2 U	1.6 U	6.2 U	1.6 U
593-60-2	Bromoethene	NP	NP	35 U	8 U	7 U	1.6 U	7 U	1.6 U	7 U	1.6 U
100-44-7	Benzyl Chloride	0.5	0.097	41 U	8 U	8.2 U	1.6 U	8.2 U	1.6 U	8.2 U	1.6 U
75-15-0	Carbon disulfide	7,000	2,200	448	144	4 J	1.3 J	22	7.2	15	4.9
108-90-7	Chlorobenzene	600	130	37 U	8 U	7.4 U	1.6 U	7.4 U	1.6 U	7.4 U	1.6 U
75-00-3	Chloroethane	100,000	38,000	747	283	164	62.3	12	4.7	1370	521
67-66-3	Chloroform	1.1	0.22	39 U	8 U	7.8 U	1.6 U	7.8 U	1.6 U	7.8 U	1.6 U
74-87-3	Chloromethane	24	12	17 U	8 U	3.3 U	1.6 U	3.3 U	1.6 U	3.3 U	1.6 U
107-05-1	3-Chloropropene	NP	NP	25 U	8 U	5 U	1.6 U	5 U	1.6 U	5 U	1.6 U
95-49-8	2-Chlorotoluene	NP	NP	41 U	8 U	8.3 U	1.6 U	8.3 U	1.6 U	8.3 U	1.6 U
56-23-5	Carbon tetrachloride	1.6	0.26	50 U	8 U	10 U	1.6 U	10 U	1.6 U	10 U	1.6 U
110-82-7	Cyclohexane	NP	NP	9980	2900	5.5 U	1.6 U	308	89.5	413	120
75-34-3	1,1-Dichloroethane	5,000	1,200	32 U	8 U	9470	2340	337	83.3	14000	3470
75-35-4	1,1-Dichloroethene	2,000	500	32 U	8 U	89.2	22.5	86.4	21.8	259	65.3
106-93-4	1,2-Dibromoethane	0.11	0.014	61 U	8 U	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
107-06-2	1,2-Dichloroethane	0.94	0.23	32 U	8 U	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U
78-87-5	1,2-Dichloropropane	40	8.7	37 U	8 U	7.4 U	1.6 U	5.1 J	1.1 J	7.4 U	1.6 U
123-91-1	1,4-Dioxane	NP	NP	29 U	8 U	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
75-71-8	Dichlorodifluoromethane	2,000	400	40 U	8 U	18	3.7	11	2.3	9.4	1.9
124-48-1	Dibromochloromethane	1.0	0.12	68 U	8 U	14 U	1.6 U	14 U	1.6 U	14 U	1.6 U
156-60-5	trans-1,2-Dichloroethene	700	180	32 U	8 U	6.3 U	1.6 U	46.8	11.8	29	7.3
156-59-2	cis-1,2-Dichloroethene	350	88	17 J	4.2 J	4.8 J	1.2 J	257	64.8	1320	332
10061-01-5	cis-1,3-Dichloropropene	NP	NP	36 U	8 U	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U
541-73-1	m-Dichlorobenzene	1100	170	48 U	8 U	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
95-50-1	o-Dichlorobenzene	2000	330	48 U	8 U	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
106-46-7	p-Dichlorobenzene	8,000	1,300	48 U	8 U	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
10061-02-6	trans-1,3-Dichloropropene	NP	NP	36 U	8 U	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U
64-17-5	Ethanol	NP	NP	38 U	20 U	7.5 U	4 U	7.5 U	4 U	17	9.1
100-41-4	Ethylbenzene	22	5.1	35 U	8 U	4.8 J	1.1 J	4.3 J	1 J	3.5 J	0.81 J

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK

SAMPLING LOCATION: SAMPLING DATE: ACCUTEST SAMPLE ID: DILUTION FACTOR	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁵		SG-05-01 09/21/05 J10451-6		SG-05-02 09/20/05 J10451-7		SG-05-03 09/21/05 J10451-3		SG-05-04 09/21/05 J10451-5	
	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
141-78-6	32,000	8,700	29 U	8 U	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
622-96-8	NP	NP	39 U	8 U	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U
76-13-1	300,000	39,000	61 U	8 U	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
76-14-2	NP	NP	56 U	8 U	6.2 J	0.88 J	16	2.3	11 U	1.6 U
142-82-5	NP	NP	349	85.2	4.5 J	1.1 J	88.9	21.7	77	18.8
87-68-3	1.1	0.1	85 U	8 U	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U
110-54-3	2,000	570	12200	3460	102	28.9	708	201	1740	494
591-78-6	NP	NP	33 U	8 U	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U
67-63-0	NP	NP	20 U	8 U	3.9 U	1.6 U	3.9 U	1.6 U	3.9 U	1.6 U
75-09-2	52	15	28 U	8 U	2.7 J	0.78 J	2.8 J	0.82 J	59.1	17
78-93-3	10000	3400	24 U	8 U	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U
108-10-1	800	200	33 U	8 U	6.6 U	1.6 U	6.6 U	1.6 U	20	4.9
1634-04-4	30,000	8,300	29 U	8 U	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
115-07-1	NP	NP	34 U	20 U	6.9 U	4 U	6.9 U	4 U	534	311
100-42-5	10,000	2,300	34 U	8 U	6.8 U	1.6 U	6.8 U	1.6 U	6.8 U	1.6 U
71-55-6	22,000	4,000	44 U	8 U	1840	337	33	6	5190	952
79-34-5	0.4	0.061	55 U	8 U	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U
79-00-5	1.5	0.28	44 U	8 U	8.7 U	1.6 U	8.7 U	1.6 U	8.7 U	1.6 U
120-82-1	2,000	270	59 U	8 U	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
95-63-6	60	12	39 U	8 U	9.8 U	2	7.9 U	1.6 U	4.8 J	0.97 J
108-67-8	60	12	39 U	8 U	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U
540-84-1	NP	NP	1930	413	542	116	305	65.3	169	36.2
75-65-0	NP	NP	24 U	8 U	4.9 U	1.6 U	4.9 U	1.6 U	4.9 U	1.6 U
127-18-4	8.1	1.2	54 U	8 U	400	59	96.3	14.2	1030	152
109-99-9	NP	NP	24 U	8 U	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U
108-88-3	4,000	1,100	26 J	7 J	4.5 J	1.2 J	11	3	14	3.6
79-01-6	0.22	0.041	43 U	8 U	76.3	14.2	116	21.5	335	62.3
75-69-4	7,000	1,200	45 U	8 U	9 U	1.6 U	9 U	1.6 U	9 U	1.6 U
75-01-4	2.8	1.1	53.2	20.8	4.1 U	1.6 U	529	207	598	234
108-05-4	2,000	570	28 U	8 U	5.6 U	1.6 U	5.6 U	1.6 U	5.6 U	1.6 U
95-47-6	70,000	16,000	45.6	10.5	14	3.3	7.8	1.8	8.3	1.9
1330-20-7	70,000	16,000	35 U	8 U	5.6 J	1.3 J	6.9 U	1.6 U	6.9 U	1.6 U
Xylenes (total)	70,000	16,000	45.6	10.5	20	4.6	7.8	1.8	11	2.6

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK

CAS No.	GC/MS Volatiles	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁻⁵		SG-05-05 09/21/05 J10451-2		SG-05-06 09/21/05 J10451-13		SG-05-07 09/21/05 J10451-1		SG-05-08 09/20/05 J10451-9	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
67-64-1	Acetone	3,500	1,500	3.8 U	1.6 U	69.6	29.3	3.8 U	1.6 U	128	54
106-99-0	1,3-Butadiene	0.087	0.039	3.5 U	1.6 U	3.5 U	1.6 U	3.5 U	1.6 U	3.5 U	1.6 U
71-43-2	Benzene	3.1	0.98	57.8	18.1	46	14.4	27	8.3	70	21.9
75-27-4	Bromodichloromethane	1.4	0.21	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U
75-25-2	Bromoform	22	2.1	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U
74-83-9	Bromomethane	50	13	6.2 U	1.6 U	6.2 U	1.6 U	6.2 U	1.6 U	6.2 U	1.6 U
593-60-2	Bromoethene	NP	NP	7 U	1.6 U	7 U	1.6 U	7 U	1.6 U	7 U	1.6 U
100-44-7	Benzyl Chloride	0.5	0.097	8.2 U	1.6 U	8.2 U	1.6 U	8.2 U	1.6 U	8.2 U	1.6 U
75-15-0	Carbon disulfide	7,000	2,200	33	10.6	28	9	154	49.6	333	107
108-90-7	Chlorobenzene	600	130	7.4 U	1.6 U	7.4 U	1.6 U	89.3	19.4	41	8.8
75-00-3	Chloroethane	100,000	38,000	269	102	1100	416	83.4	31.6	22	8.4
67-66-3	Chloroform	1.1	0.22	7.8 U	1.6 U	7.8 U	1.6 U	7.8 U	1.6 U	7.8 U	1.6 U
74-87-3	Chloromethane	24	12	3.3 U	1.6 U	3.3 U	1.6 U	3.3 U	1.6 U	3.3 U	1.6 U
107-05-1	3-Chloropropene	NP	NP	5 U	1.6 U	5 U	1.6 U	5 U	1.6 U	5 U	1.6 U
95-49-8	2-Chlorotoluene	NP	NP	8.3 U	1.6 U	8.3 U	1.6 U	8.3 U	1.6 U	8.3 U	1.6 U
56-23-5	Carbon tetrachloride	1.6	0.26	10 U	1.6 U	10 U	1.6 U	10 U	1.6 U	10 U	1.6 U
110-82-7	Cyclohexane	NP	NP	66.8	19.4	189	54.8	403	117	28	8.2
75-34-3	1,1-Dichloroethane	5,000	1,200	1700	420	210	52	16	4	36	9
75-35-4	1,1-Dichloroethene	2,000	500	53.9	13.6	19	4.8	6.3 U	1.6 U	6.3 U	1.6 U
106-93-4	1,2-Dibromoethane	0.11	0.014	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
107-06-2	1,2-Dichloroethane	0.94	0.23	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U
78-87-5	1,2-Dichloropropane	40	8.7	7.4 U	1.6 U	7.4 U	1.6 U	7.4 U	1.6 U	7.4 U	1.6 U
123-91-1	1,4-Dioxane	NP	NP	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
75-71-8	Dichlorodifluoromethane	2,000	400	4.8 J	0.98 J	4.4 J	0.88 J	5.9 J	1.2 J	5.4 J	1.1 J
124-48-1	Dibromochloromethane	1.0	0.12	14 U	1.6 U	14 U	1.6 U	14 U	1.6 U	14 U	1.6 U
156-60-5	trans-1,2-Dichloroethene	700	180	11	2.7	14	3.6	6.3 U	1.6 U	6.3 U	1.6 U
156-59-2	cis-1,2-Dichloroethene	350	88	226	57.1	93.6	23.6	15	3.9	30	7.5
10061-01-5	cis-1,3-Dichloropropene	NP	NP	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U
541-73-1	m-Dichlorobenzene	1100	170	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
95-50-1	o-Dichlorobenzene	2000	330	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
106-46-7	p-Dichlorobenzene	8,000	1,300	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
10061-02-6	trans-1,3-Dichloropropene	NP	NP	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U
64-17-5	Ethanol	NP	NP	3.2 J	1.7 J	11	6	7.5 U	4 U	31	16.5
100-41-4	Ethylbenzene	22	5.1	6.5 J	1.5 J	17	3.9	3.8 J	0.88 J	6.1 J	1.4 J

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK

SAMPLING LOCATION: SAMPLING DATE: ACCUTEST SAMPLE ID: DILUTION FACTOR	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁻⁵		SG-05-05 09/21/05 J10451-2		SG-05-06 09/21/05 J10451-13		SG-05-07 09/21/05 J10451-1		SG-05-08 09/20/05 J10451-9	
	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
141-78-6	32,000	8,700	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
622-96-8	NP	NP	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U
76-13-1	300,000	39,000	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
76-14-2	NP	NP	16	2.3	10 J	1.5 J	11 U	1.6 U	9.1 J	1.3 J
142-82-5	NP	NP	9.8	2.4	37	9	349	85.1	205	50.1
87-68-3	1.1	0.1	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U
110-54-3	2,000	570	59.6	16.9	258	73.3	990	281	145	41.2
591-78-6	NP	NP	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U
67-63-0	NP	NP	3.9 U	1.6 U	3.9 U	1.6 U	3.9 U	1.6 U	3.9 U	1.6 U
75-09-2	52	15	15	4.3	20	5.7	2.9 J	0.83 J	5.6 U	1.6 U
78-93-3	10,000	3,400	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U
108-10-1	800	200	6.6 U	1.6 U	6.6 U	1.6 U	6.6 U	1.6 U	6.6 U	1.6 U
1634-04-4	30,000	6,300	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
115-07-1	NP	NP	199	116	6.9 U	4 U	6.9 U	4 U	6.9 U	4 U
100-42-5	10,000	2,300	6.8 U	1.6 U	6.8 U	1.6 U	6.8 U	1.6 U	6.8 U	1.6 U
71-55-6	22,000	4,000	253	46.3	66.6	12.2	8.7 U	1.6 U	8.7 U	1.6 U
79-34-5	0.4	0.081	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U
79-00-5	1.5	0.28	8.7 U	1.6 U	8.7 U	1.6 U	8.7 U	1.6 U	8.7 U	1.6 U
120-82-1	2,000	270	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
95-63-6	60	12	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U
108-67-8	60	12	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U
540-84-1	NP	NP	481	103	476	102	115	24.7	338	72.4
75-65-0	NP	NP	4.9 U	1.6 U	4.9 U	1.6 U	4.9 U	1.6 U	4.9 U	1.6 U
127-18-4	8.1	1.2	209	30.8	140	20.7	11 U	1.6 U	11 U	1.6 U
109-99-9	NP	NP	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U
108-88-3	4,000	1,100	17	4.4	9.8	2.6	21	5.6	12	3.3
79-01-6	0.22	0.041	188	35	67.7	12.6	8.6 U	1.6 U	8.6 U	1.6 U
75-69-4	7,000	1,200	9 U	1.6 U	9 U	1.6 U	9 U	1.6 U	9 U	1.6 U
75-01-4	2.8	1.1	65.7	25.7	119	46.6	45.5	17.8	15	5.8
108-05-4	2,000	570	5.6 U	1.6 U	5.6 U	1.6 U	5.6 U	1.6 U	5.6 U	1.6 U
95-47-6	70,000	16,000	13	3.1	43.9	10.1	11	2.6	13	2.9
1330-20-7	70,000	16,000	6.9 U	1.6 U	41	9.4	6.9 U	1.6 U	12	2.8
	70,000	16,000	13	3.1	84.7	19.5	11	2.6	25	5.7

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREERPORT, NEW YORK

GAS No.	GC/MS Volatiles	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁻⁵		SG-05-09 09/20/05 J10451-10		SG-05-10 09/20/05 J10451-12		SG-05-11 09/21/05 J10451-4	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
67-64-1	Acetone	3,500	1,500	3.8 U	1.6 U	3.8 U	1.6 U	27.6	11.6
106-99-0	1,3-Butadiene	0.087	0.039	3.5 U	1.6 U	3.5 U	1.6 U	3.5 U	1.6 U
71-43-2	Benzene	3.1	0.96	5.1 U	1.6 U	15	4.6	33.2	10.4
75-27-4	Bromodichloromethane	1.4	0.21	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U
75-25-2	Bromoform	22	2.1	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U
74-83-9	Bromomethane	50	13	6.2 U	1.6 U	6.2 U	1.6 U	6.2 U	1.6 U
593-60-2	Bromoethene	NP	NP	7 U	1.6 U	7 U	1.6 U	7 U	1.6 U
100-44-7	Benzyl Chloride	0.5	0.097	8.2 U	1.6 U	8.2 U	1.6 U	8.2 U	1.6 U
75-15-0	Carbon disulfide	7,000	2,200	11	3.5	74.4	23.9	26	8.3
108-90-7	Chlorobenzene	600	130	7.4 U	1.6 U	7.4 U	1.6 U	7.4 U	1.6 U
75-00-3	Chloroethane	100,000	38,000	4.2 U	1.6 U	792	300	5040	1910
67-66-3	Chloroform	1.1	0.22	4.7 J	0.96 J	7.8 U	1.6 U	7.8 U	1.6 U
74-87-3	Chloromethane	24	12	3.3 U	1.6 U	3.3 U	1.6 U	3.3	1.6
107-05-1	3-Chloropropene	NP	NP	5 U	1.6 U	5 U	1.6 U	5 U	1.6 U
95-49-8	2-Chlorotoluene	NP	NP	8.3 U	1.6 U	8.3 U	1.6 U	8.3 U	1.6 U
56-23-5	Carbon tetrachloride	1.6	0.26	10 U	1.6 U	10 U	1.6 U	10 U	1.6 U
110-82-7	Cyclohexane	NP	NP	5.5 U	1.6 U	5.5 U	1.6 U	132	38.4
75-34-3	1,1-Dichloroethane	5,000	1,200	210	51.9	935	231	2970	733
75-35-4	1,1-Dichloroethene	2,000	500	6.3 U	1.6 U	56.3	14.2	76.5	19.3
106-93-4	1,2-Dibromoethane	0.11	0.014	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
107-06-2	1,2-Dichloroethane	0.94	0.23	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U
78-87-5	1,2-Dichloropropane	40	8.7	7.4 U	1.6 U	7.4 U	1.6 U	7.4 U	1.6 U
123-91-1	1,4-Dioxane	NP	NP	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
75-71-8	Dichlorodifluoromethane	2,000	400	7.9	1.6	108	21.9	7.9 U	1.6 U
124-48-1	Dibromochloromethane	1.0	0.12	14 U	1.6 U	14 U	1.6 U	14 U	1.6 U
156-60-5	trans-1,2-Dichloroethene	700	180	6.3 U	1.6 U	6.3 U	1.6 U	3.6 J	0.9 J
156-59-2	cis-1,2-Dichloroethene	350	88	6.3 U	1.6 U	13	3.4	13	3.2
10061-01-5	cis-1,3-Dichloropropene	NP	NP	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U
541-73-1	m-Dichlorobenzene	1100	170	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
95-50-1	o-Dichlorobenzene	2000	330	9.6 U	1.6 U	9.6 U	1.6 U	9.6 U	1.6 U
106-46-7	p-Dichlorobenzene	8,000	1,300	9.6 U	1.6 U	9.6 U	1.6 U	10	1.7
10061-02-6	trans-1,3-Dichloropropene	NP	NP	7.3 U	1.6 U	7.3 U	1.6 U	7.3 U	1.6 U
64-17-5	Ethanol	NP	NP	11	6	7.5 U	4 U	24.6	13.1
100-41-4	Ethylbenzene	22	5.1	6.9 U	1.6 U	6.9 U	1.6 U	6.9 U	1.6 U

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK

SAMPLING LOCATION: SAMPLING DATE: ACCUTEST SAMPLE ID: DILUTION FACTOR	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁻⁶		SG-05-09 09/20/05 J10451-10		SG-05-10 09/20/05 J10451-12		SG-05-11 09/21/05 J10451-4	
	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
141-78-6	32,000	8,700	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
622-96-8	NP	NP	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U
76-13-1	300,000	39,000	12 U	1.6 U	12 U	1.6 U	202	26.3
76-14-2	NP	NP	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U
142-82-5	NP	NP	6.6 U	1.6 U	60.2	14.7	4.1 J	1 J
87-68-3	1.1	0.1	17 U	1.6 U	17 U	1.6 U	17 U	1.6 U
110-54-3	2,000	570	11	3.1	807	229	276	78.2
591-78-6	NP	NP	6.5 U	1.6 U	6.5 U	1.6 U	6.5 U	1.6 U
67-63-0	NP	NP	3.9 U	1.6 U	3.9 U	1.6 U	3.9 U	1.6 U
75-09-2	52	15	5.6 U	1.6 U	5.6 U	1.6 U	128	36.8
78-93-3	10000	3400	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U
108-10-1	800	200	6.6 U	1.6 U	6.6 U	1.6 U	24	5.9
1634-04-4	30,000	8,300	5.8 U	1.6 U	5.8 U	1.6 U	5.8 U	1.6 U
115-07-1	NP	NP	47.6	27.7	6.9 U	4 U	6.9 U	4 U
100-42-5	10,000	2,300	6.8 U	1.6 U	6.8 U	1.6 U	6.8 U	1.6 U
71-55-6	22,000	4,000	182	33.4	32	5.8	21100	3870
79-34-5	0.4	0.061	11 U	1.6 U	11 U	1.6 U	11 U	1.6 U
79-00-5	1.5	0.28	8.7 U	1.6 U	8.7 U	1.6 U	8.7 U	1.6 U
120-82-1	2,000	270	12 U	1.6 U	12 U	1.6 U	12 U	1.6 U
95-63-6	60	12	7.4 J	1.5 J	7.9 U	1.6 U	7.9 U	1.6 U
108-67-8	60	12	7.9 U	1.6 U	7.9 U	1.6 U	7.9 U	1.6 U
540-84-1	NP	NP	159	34.1	1560	335	193	41.4
75-65-0	NP	NP	4.9 U	1.6 U	4.9 U	1.6 U	4.9 U	1.6 U
127-18-4	8.1	1.2	33	4.9	12	1.7	1480	218
109-99-9	NP	NP	4.7 U	1.6 U	4.7 U	1.6 U	4.7 U	1.6 U
108-88-3	4,000	1,100	3.4 J	0.9 J	9.8	2.6	9	2.4
79-01-6	0.22	0.041	4.9 J	0.91 J	8.6 U	1.6 U	152	28.2
75-69-4	7,000	1,200	9 U	1.6 U	9 U	1.6 U	9 U	1.6 U
75-01-4	2.8	1.1	4.1 U	1.6 U	21	8.4	59.6	23.3
108-05-4	2,000	570	5.6 U	1.6 U	5.6 U	1.6 U	5.6 U	1.6 U
95-47-6	70,000	16,000	6.5 J	1.5 J	8.3	1.9	7.4	1.7
1330-20-7	70,000	16,000	6.9 U	1.6 U	6.9 U	1.6 U	6.9 U	1.6 U
	70,000	16,000	6.5 J	1.5 J	8.3	1.9	7.4	1.7

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK

CAS No.	GC/MS Volatiles	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁻⁶		SG-05-AMB-E 09/20/05 J10451-11		SG-05-AMB-W 09/20/05 J10451-8	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
67-64-1	Acetone	3,500	1,500	12	5	5	2.1
106-99-0	1,3-Butadiene	0.087	0.039	0.44 U	0.44 U	0.44 U	0.2 U
71-43-2	Benzene	3.1	0.98	15	4.8	0.35 J	0.11 J
75-27-4	Bromodichloromethane	1.4	0.21	1.3 U	0.2 U	1.3 U	0.2 U
75-25-2	Bromoform	22	2.1	2.1 U	0.2 U	2.1 U	0.2 U
74-83-9	Bromomethane	50	13	0.78 U	0.2 U	0.78 U	0.2 U
593-60-2	Bromoethane	NP	NP	0.87 U	0.2 U	0.87 U	0.2 U
100-44-7	Benzyl Chloride	0.5	0.087	1 U	0.2 U	1 U	0.2 U
75-15-0	Carbon disulfide	7,000	2,200	0.62 U	0.2 U	0.62 U	0.2 U
108-90-7	Chlorobenzene	600	130	0.92 U	0.2 U	0.92 U	0.2 U
75-00-3	Chloroethane	100,000	38,000	0.53 U	0.2 U	0.53 U	0.2 U
67-66-3	Chloroform	1.1	0.22	0.98 U	0.2 U	0.98 U	0.2 U
74-87-3	Chloromethane	24	12	0.7	0.34	0.72	0.35
107-05-1	3-Chloropropene	NP	NP	0.63 U	0.2 U	0.63 U	0.2 U
95-49-8	2-Chlorotoluene	NP	NP	1 U	0.2 U	1 U	0.2 U
56-23-5	Carbon tetrachloride	1.6	0.26	1.3 U	0.2 U	1.3 U	0.2 U
110-82-7	Cyclohexane	NP	NP	0.69 U	0.2 U	0.69 U	0.2 U
75-34-3	1,1-Dichloroethane	5,000	1,200	0.81 U	0.2 U	0.81 U	0.2 U
75-35-4	1,1-Dichloroethene	2,000	500	0.79 U	0.2 U	0.79 U	0.2 U
106-93-4	1,2-Dibromoethane	0.11	0.014	1.5 U	0.2 U	1.5 U	0.2 U
107-06-2	1,2-Dichloroethane	0.94	0.23	0.81 U	0.2 U	0.81 U	0.2 U
78-87-5	1,2-Dichloropropane	40	8.7	0.92 U	0.2 U	0.92 U	0.2 U
123-91-1	1,4-Dioxane	NP	NP	0.72 U	0.2 U	0.72 U	0.2 U
75-71-8	Dichlorodifluoromethane	2,000	400	2.1	0.43	2	0.41
124-48-1	Dibromochloromethane	1.0	0.12	1.7 U	0.2 U	1.7 U	0.2 U
156-60-5	trans-1,2-Dichloroethene	700	180	0.79 U	0.2 U	0.79 U	0.2 U
156-59-2	cis-1,2-Dichloroethene	350	88	0.79 U	0.2 U	0.79 U	0.2 U
10061-01-5	cis-1,3-Dichloropropene	NP	NP	0.91 U	0.2 U	0.91 U	0.2 U
541-73-1	m-Dichlorobenzene	1100	170	1.2 U	0.2 U	1.2 U	0.2 U
95-50-1	o-Dichlorobenzene	2000	330	1.2 U	0.2 U	1.2 U	0.2 U
106-46-7	p-Dichlorobenzene	8,000	1,300	1.2 U	0.2 U	1.2 U	0.2 U
10061-02-6	trans-1,3-Dichloropropene	NP	NP	0.91 U	0.2 U	0.91 U	0.2 U
64-17-5	Ethanol	NP	NP	12	6.4	1.7	0.9
100-41-4	Ethylbenzene	22	5.1	0.87 U	0.2 U	0.87 U	0.2 U

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK

SAMPLING LOCATION: SAMPLING DATE: ACCUTEST SAMPLE ID: DILUTION FACTOR	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Conc. Where SG/IA Att. Fact. = 0.1 Risk Factor = 10 ⁻⁶		SG-05-AMB-E 09/20/05 J10451-11		SG-05-AMB-W 09/20/05 J10451-8	
	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
141-78-6	32,000	8,700	27	7.4	4	1.1
622-96-8	NP	NP	0.98 U	0.2 U	0.98 U	0.2 U
76-13-1	300,000	39,000	1.3 J	0.17 J	1.3 J	0.17 J
76-14-2	NP	NP	1.4 U	0.2 U	1.4 U	0.2 U
142-82-5	NP	NP	0.45 J	0.11 J	0.82 U	0.2 U
87-68-3	1.1	0.1	2.1 U	0.2 U	2.1 U	0.2 U
110-54-3	2,000	570	0.7 U	0.2 U	0.39 J	0.11 J
591-78-6	NP	NP	0.82 U	0.2 U	0.82 U	0.2 U
67-63-0	NP	NP	0.49 U	0.2 U	0.49 U	0.2 U
75-09-2	52	15	0.63 J	0.18 J	1	0.29
78-93-3	10000	3400	0.59 U	0.2 U	0.59 U	0.2 U
108-10-1	800	200	0.82 U	0.2 U	0.82 U	0.2 U
1634-04-4	30,000	8,300	0.72 U	0.2 U	0.35 J	0.096 J
115-07-1	NP	NP	0.86 U	0.5 U	0.86 U	0.5 U
100-42-5	10,000	2,300	0.4 J	0.094 J	0.85 U	0.2 U
71-55-6	22,000	4,000	1.1 U	0.2 U	1.1 U	0.2 U
79-34-5	0.4	0.061	1.4 U	0.2 U	1.4 U	0.2 U
79-00-5	1.5	0.28	1.1 U	0.2 U	1.1 U	0.2 U
120-82-1	2,000	270	1.5 U	0.2 U	1.5 U	0.2 U
95-63-6	60	12	0.98 U	0.2 U	0.98 U	0.2 U
108-67-8	60	12	0.98 U	0.2 U	0.98 U	0.2 U
540-84-1	NP	NP	0.93 U	0.2 U	0.93 U	0.2 U
75-65-0	NP	NP	0.61 U	0.2 U	0.61 U	0.2 U
127-18-4	8.1	1.2	1.4	0.2	1.4 U	0.2 U
109-99-9	NP	NP	0.59 U	0.2 U	0.59 U	0.2 U
108-88-3	4,000	1,100	1.9	0.5	0.79	0.21
79-01-6	0.22	0.041	1.1 U	0.2 U	1.1 U	0.2 U
75-69-4	7,000	1,200	1.1 J	0.19 J	1.1 J	0.19 J
75-01-4	2.8	1.1	0.51 U	0.2 U	0.51 U	0.2 U
108-05-4	2,000	570	0.7 U	0.2 U	0.7 U	0.2 U
95-47-6	70,000	16,000	0.87 U	0.2 U	0.87 U	0.2 U
1330-20-7	70,000	16,000	0.87 U	0.2 U	0.87 U	0.2 U
	70,000	16,000	0.43 J	0.1 J	0.4 J	0.093 J

TABLE 1
SUMMARY OF SOIL GAS SAMPLING RESULTS
FORMER COLUMBIA CEMENT FACILITY
FREEPORT, NEW YORK

NOTES:

- μg/m³** : Micrograms per cubic meter
- ppbv** : Parts per million by volume
- 200** : Bold indicates result exceeds USEPA Target Shallow Soil Gas Concentration Corresponding to Target Indoor Concentration Where Soil Gas / Indoor Air Attenuation Factor = 0.1 with a Risk Factor of 10⁻⁶
- 500** : Bold indicates result exceeds NYSDOH Air Guideline Value (AGV)

Compound	AGV (μg/m³)
Methylene Chloride	60
Tetrachloroethene	100
Trichloroethene	1

TABLE 2
 SCREENING OF SOIL GAS SAMPLING CONTAMINANTS OF CONCERN
 FORMER COLUMBIA CEMENT FACILITY
 FREEPORT, NEW YORK

SAMPLING LOCATION: SAMPLING DATE: ACCUTEST SAMPLE ID: DILUTION FACTOR	CAS No.	GC/MS Volatiles	Compound Detected in Soil Gas	Compound Detected in Ambient Air	Compound Detected at Concentration Exceeding USEPA Guidance ¹	Compound Detected at Concentration Exceeding NYDOV AGV ²	Compound Historically Stored On Site USTs ³	Compound Related to 1988 1,1,1-TCA Spill Event ⁴	Compound Proposed for Future Soil Vapor Monitoring
	67-64-1	Acetone	X	X			X		
	106-99-0	1,3-Butadiene							
	71-43-2	Benzene	X	X	X				X
	75-27-4	Bromodichloromethane							
	75-25-2	Bromoform							
	74-83-9	Bromomethane							
	593-60-2	Bromoethene							
	100-44-7	Benzyl Chloride							
	75-15-0	Carbon disulfide	X						
	108-90-7	Chlorobenzene	X						
	75-00-3	Chloroethane	X						
	67-66-3	Chloroform	X					X	
	74-87-3	Chloromethane	X	X					
	107-05-1	3-Chloropropene							
	95-49-8	2-Chlorotoluene							
	56-23-5	Carbon tetrachloride							
	110-82-7	Cyclohexane	X						
	75-34-3	1,1-Dichloroethane	X						
	75-35-4	1,1-Dichloroethene	X		X			X	X
	106-93-4	1,2-Dibromoethane	X					X	
	107-06-2	1,2-Dichloroethane							
	78-87-5	1,2-Dichloropropane	X						
	123-91-1	1,4-Dioxane							
	75-71-8	Dichlorodifluoromethane	X	X					
	124-48-1	Dibromochloromethane							
	156-60-5	trans-1,2-Dichloroethene	X						
	156-59-2	cis-1,2-Dichloroethene	X						
	10061-01-5	cis-1,3-Dichloropropene	X						
	541-73-1	m-Dichlorobenzene							
	95-50-1	o-Dichlorobenzene							
	106-46-7	p-Dichlorobenzene	X						
	10061-02-6	trans-1,3-Dichloropropene							
	64-17-5	Ethanol	X	X					
	100-41-4	Ethylbenzene	X					X	
	141-78-6	Ethyl Acetate		X					
	622-96-8	4-Ethyltoluene							

TABLE 2
 SCREENING OF SOIL GAS SAMPLING CONTAMINANTS OF CONCERN
 FORMER COLUMBIA CEMENT FACILITY
 FREEPORT, NEW YORK

SAMPLING LOCATION: SAMPLING DATE: ACCUTEST SAMPLE ID: DILUTION FACTOR	Compound Detected in Soil Gas	Compound Detected in Ambient Air	Compound Detected at Exceeding USEPA Guidance ¹	Compound Detected at Concentration Exceeding NYDOV AGV ²	Compound Historically Stored in On Site USTs ³	Compound Related to 1988 1,1,1-TCA Spill Event ⁴	Compound Proposed for Future Soil Vapor Monitoring
76-13-1	X						
76-14-2	X	X					
142-82-5	X	X			X		
87-88-3							
110-54-3	X	X	X		X		X
591-78-6							
67-63-0							
75-09-2	X	X	X	X			X
78-93-3							
108-10-1	X				X		
1634-04-4		X					
115-07-1	X						
100-42-5		X					
71-55-6	X					X	
79-34-5							
79-00-5							
120-82-1							
95-63-6	X						
108-67-8	X						
540-84-1	X						
75-65-0							
127-18-4	X	X	X	X			X
109-99-9							
108-88-3	X	X					
79-01-6	X				X		X
75-69-4		X	X	X			
75-01-4	X					X	X
108-05-4							
95-47-6	X						
1330-20-7	X	X					

NOTES:

- 1 : Draft Guidance for Evaluating the Potential for Vapor Intrusion to indoor Air Pathway from Groundwater and Soil, USEPA, 2004.
- 2 : Guidance for Evaluating Soil Vapor Intrusion in the State of New York; Public Comment Draft, February 2005.
- 3 : Remedial Investigation Report, Columbia Cement Company, Inc., 159 Hanse Avenue, Freeport, New York 11520, Site # 1-30-052, December 2003.
- 4 : Technical/Regulatory Guidelines; Natural Attenuation of Chlorinated Solvents in Groundwater; Principles and Practices, Interstate Technology and Regulatory Cooperation, 1999.