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Appendix B

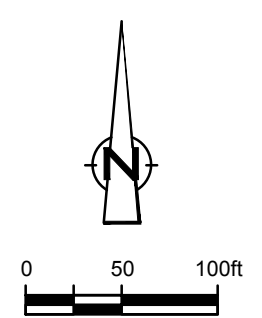
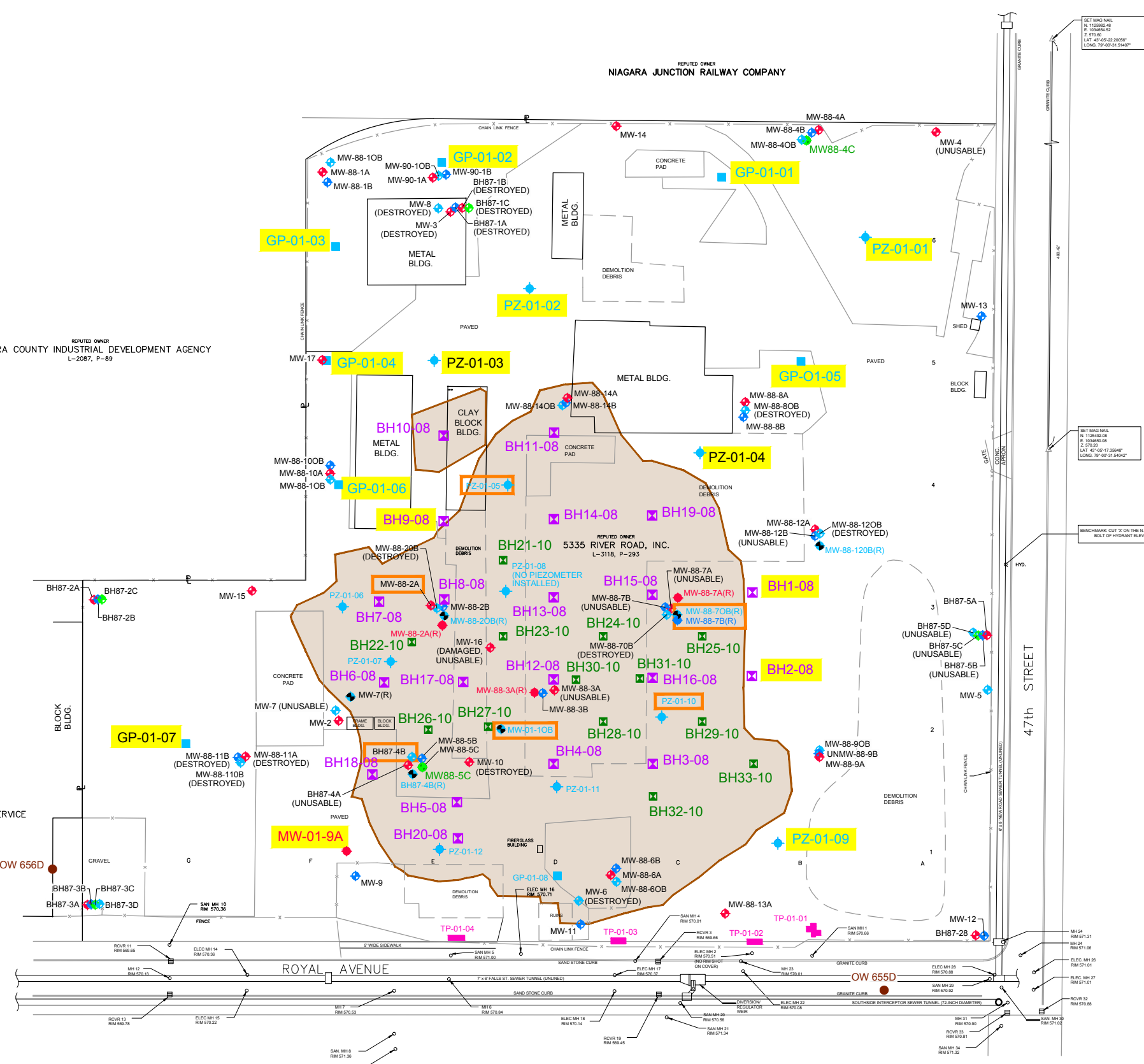
Chemical Analysis of Soil Remaining Outside of Excavation Area

REPUTED OWNER
 NIAGARA COUNTY INDUSTRIAL DEVELOPMENT AGENCY
 L-2087, P-89

REPUTED OWNER
 FRANK'S VACUUM TRUCK SERVICE
 L-2362, P-255

REPUTED OWNER
 NIAGARA JUNCTION RAILWAY COMPANY

REPUTED OWNER
 ELKEM METALS COMPANY



LEGEND

- PROPERTY LINE
- MW-88-90B OVERBURDEN MONITORING WELL
- MW-88-9A A-FRACTURE ZONE BEDROCK WELL
- MW-88-4B B-FRACTURE ZONE BEDROCK WELL
- BH87-5C C-FRACTURE ZONE BEDROCK WELL
- MW-88-3A(R) SRI WELLS
- PZ-01-01 SRI PIEZOMETER LOCATION
- GP-01-01 SRI GEOPROBE SOIL BORING LOCATION
- TP-01-02 SRI TEST PIT LOCATION
- MANHOLE
- FENCE
- >1000ppm TVOCs AND MCT
- OW 655D EXISTING OCC OSI WELL LOCATION
- MW88-4C EXISTING C-ZONE MONITORING WELL LOCATION
- BH3-08 BOREHOLE LOCATION
- BH29-10 BOREHOLE LOCATION INSTALLED IN 2010
- LIMIT OF EXCAVATION
- REMAINING BOREHOLE WITH SOIL CONCENTRATION INFORMATION

figure 1
 SOIL BOREHOLE INVESTIGATION LOCATIONS
Frontier Chemical Site - Niagara Falls, New York



OW 654D/C/B

SOURCE: E & E, 2002

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>
		<i>sampledate</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
							<i>(Duplicate)</i>			
VOAs	Units	NYSDEC SCO (1)								
1,1,1-Trichloroethane	µg/kg	1000000	11 U	9 J	12	24 J	29 J	30	15	49 J
1,1,2,2-Tetrachloroethane	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
1,1,2-Trichloroethane	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	2 J	11 U	85 U
1,1-Dichloroethane	µg/kg	480000	11 U	3 J	3 J	46 U	55 U	7 J	7 J	17 J
1,1-Dichloroethene	µg/kg	1000000	11 U	12 U	11 U	46 U	55 U	3 J	11 U	85 U
1,2,4-Trichlorobenzene	µg/kg	NL	11 U	12 U	11 U	8 J	8 J	10 J	2600	810
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
1,2-Dichlorobenzene	µg/kg	1000000	11 U	12 U	3 J	71	79	120	170	470
1,2-Dichloroethane	µg/kg	60000	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
1,2-Dichloropropane	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
1,3-Dichlorobenzene	µg/kg	560000	11 U	12 U	3 J	110	120	160	1000	680
1,4-Dichlorobenzene	µg/kg	250000	11 U	12 U	5 J	120	130	180	990	680
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	11 U	10 J	11 U	46 U	55 U	11 U	11 U	85 U
2-Chlorotoluene	µg/kg	1000000	11 U	22	110	2900	3100	7200	12000	7600
2-Hexanone	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
4-Chlorotoluene	µg/kg	1000000	11 U	5 J	3 J	46 U	55 U	25	190	570
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Acetone	µg/kg	1000000	780	3900	2000	6600	6300	210	440	34000
Benzene	µg/kg	89000	11 U	1 J	2 J	6 J	10 J	27	46	97
Bromodichloromethane	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Bromoform	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Bromomethane (Methyl Bromide)	µg/kg	NL	11 U	12 UJ	11 UJ	46 U	55 U	11 UJ	11 UJ	85 U
Carbon disulfide	µg/kg	NL	11 U	12 UJ	11 UJ	46 U	55 U	11 UJ	11 UJ	13 J
Carbon tetrachloride	µg/kg	44000	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Chlorobenzene	µg/kg	1000000	11 U	12 U	6 J	22 J	25 J	49	85	180
Chloroethane	µg/kg	NL	11 U	12 UJ	11 UJ	46 U	55 U	11 UJ	11 UJ	85 U
Chloroform (Trichloromethane)	µg/kg	700000	2 J	20	11 U	46 U	55 U	2 J	11 U	85 U
Chloromethane (Methyl Chloride)	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
cis-1,2-Dichloroethene	µg/kg	1000000	11 U	5 J	27	16 J	30 J	11	11 U	85 U
cis-1,3-Dichloropropene	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Cyclohexane	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Dibromochloromethane	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Ethylbenzene	µg/kg	780000	11 U	12 U	11 U	46 U	55 U	3 J	5 J	10 J
Isopropylbenzene	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Methyl acetate	µg/kg	NL	11 UJ	12 UJ	11 UJ	46 U	55 U	11 UJ	11 UJ	85 U

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>	<i>BH1-08</i>
		<i>sampledate</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
							<i>(Duplicate)</i>			
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Methyl Tert Butyl Ether	µg/kg	1000000	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Methylene chloride	µg/kg	1000000	12	16 U	21 U	37 J	34 J	13 U	12 U	42 J
Styrene	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Tetrachloroethene	µg/kg	300000	10 J	10 J	60	58	76	50	1 J	85 U
Toluene	µg/kg	1000000	1 J	2 J	2 J	46 U	55 U	1 J	3 J	11 J
trans-1,2-Dichloroethene	µg/kg	1000000	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
trans-1,3-Dichloropropene	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Trichloroethene	µg/kg	400000	9 J	17	22	31 J	33 J	22	11 U	85 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	11 U	12 U	11 U	46 U	55 U	11 U	11 U	85 U
Vinyl chloride	µg/kg	27000	11 U	12 U	2 J	46 U	55 U	1 J	2 J	85 U
Xylene (total)	µg/kg	1000000	<u>11 U</u>	<u>12 U</u>	<u>11 U</u>	<u>46 U</u>	<u>55 U</u>	<u>9 J</u>	<u>29</u>	<u>38 J</u>
Total VOCs	µg/kg	>1000000	814	4004	2260	10003	9974	8122	17583	45267
PID	ppm		18	5.7	20	70	--	11	20	42

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH1-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>
		<i>sampledate</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>
		<i>Depth</i>	<i>14-16 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	5 J	3 J	3 J	1 J	51 U	9 J	51 U	6 J
1,1,2,2-Tetrachloroethane	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
1,1,2-Trichloroethane	µg/kg	NL	2 J	11 U	11 U	11 U	51 U	56 U	51 U	55 U
1,1-Dichloroethane	µg/kg	480000	3 J	11 U	1 J	1 J	51 U	56 U	51 U	55 U
1,1-Dichloroethene	µg/kg	1000000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
1,2,4-Trichlorobenzene	µg/kg	NL	1 J	11 U	11 U	3 J	7000	16 J	11 J	55 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
1,2-Dichlorobenzene	µg/kg	1000000	1 J	11 U	2 J	150	10000	11000	70	94
1,2-Dichloroethane	µg/kg	60000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
1,2-Dichloropropane	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
1,3-Dichlorobenzene	µg/kg	560000	11 U	11 U	2 J	70	5100	7700	20 J	58
1,4-Dichlorobenzene	µg/kg	250000	2 J	11 U	2 J	89	5600	9100	42 J	74
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
2-Chlorotoluene	µg/kg	1000000	13	11 U	7 J	28	550	520	30 J	43 J
2-Hexanone	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
4-Chlorotoluene	µg/kg	1000000	1 J	11 U	1 J	11 U	4600	9200	72	78
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Acetone	µg/kg	1000000	11 U	35 U	11 U	780	1000	7800	2100	180
Benzene	µg/kg	89000	27	11 U	11 U	11 U	520	540	960	270
Bromodichloromethane	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Bromoform	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Bromomethane (Methyl Bromide)	µg/kg	NL	11 U	11 U	11 UJ	11 UJ	51 U	56 U	51 U	55 U
Carbon disulfide	µg/kg	NL	2 J	11 U	11 UJ	11 UJ	51 U	7 J	51 U	55 U
Carbon tetrachloride	µg/kg	44000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Chlorobenzene	µg/kg	1000000	1 J	11 U	5 J	18	950	4300	3900	420
Chloroethane	µg/kg	NL	11 U	11 U	11 UJ	11 UJ	51 U	56 U	51 U	55 U
Chloroform (Trichloromethane)	µg/kg	700000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Chloromethane (Methyl Chloride)	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
cis-1,2-Dichloroethene	µg/kg	1000000	11 U	11 U	2 J	2 J	20 J	6 J	18 J	55 U
cis-1,3-Dichloropropene	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Cyclohexane	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Dibromochloromethane	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Ethylbenzene	µg/kg	780000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Isopropylbenzene	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Methyl acetate	µg/kg	NL	11 U	11 UJ	11 UJ	11 UJ	51 UJ	56 U	51 UJ	55 U

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FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH1-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>	<i>BH2-08</i>
		<i>sampledate</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>	<i>9/16/2008</i>
		<i>Depth</i>	<i>14-16 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Methyl Tert Butyl Ether	µg/kg	1000000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Methylene chloride	µg/kg	1000000	7 J	12	15 U	11 U	40 J	49 J	37 J	12 J
Styrene	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Tetrachloroethene	µg/kg	300000	4 J	9 J	31	28	17 J	7 J	51 U	17 J
Toluene	µg/kg	1000000	6 J	11 U	11 U	11 U	51 U	6 J	61	64
trans-1,2-Dichloroethene	µg/kg	1000000	11 U	11 U	11 U	11 U	51 U	6 J	14 J	55 U
trans-1,3-Dichloropropene	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Trichloroethene	µg/kg	400000	13	11 U	9 J	6 J	51 U	56 U	51 U	31 J
Trichlorofluoromethane (CFC-11)	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Vinyl chloride	µg/kg	27000	11 U	11 U	11 U	11 U	51 U	56 U	51 U	55 U
Xylene (total)	µg/kg	1000000	<u>11 U</u>	<u>11 U</u>	<u>11 U</u>	<u>11 U</u>	<u>51 U</u>	<u>56 U</u>	<u>51 U</u>	<u>55 U</u>
Total VOCs	µg/kg	>1000000	88	24	65	1176	35397	50266	7335	1347
PID	ppm		59	4.3	1.2	8.3	24	123	92	50

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

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Boreholes which were not excavated during 2013 Soil Remediation

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	42 J	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,1,2-Trichloroethane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,1-Dichloroethane	µg/kg	480000	9 J	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,1-Dichloroethene	µg/kg	1000000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,2,4-Trichlorobenzene	µg/kg	NL	610000	26000	37000	38000	140000	120000	140000	1300
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,2-Dichlorobenzene	µg/kg	1000000	440	18000	22000	31000	48000	220000	360000	32000
1,2-Dichloroethane	µg/kg	60000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,2-Dichloropropane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
1,3-Dichlorobenzene	µg/kg	560000	410	6000	9600	14000	14000	79000	140000	12000
1,4-Dichlorobenzene	µg/kg	250000	120	8200	15000	22000	22000	140000	240000	22000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	59 U	51 U	59 U	42 U	52 U	81	90	280 U
2-Chlorotoluene	µg/kg	1000000	14 J	140	410	680	360	1200	5800 J	440
2-Hexanone	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
4-Chlorotoluene	µg/kg	1000000	59 U	320	1800	3700	950	5700 J	11000 J	1000
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	49 J	65 U	280 U
Acetone	µg/kg	1000000	59 U	120	110	15000	2400	720	1500	1400
Benzene	µg/kg	89000	7 J	51 U	59 U	130	150	6500 J	5900	770
Bromodichloromethane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Bromoform	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Bromomethane (Methyl Bromide)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Carbon disulfide	µg/kg	NL	7 J	7 J	9 J	6 J	6 J	11 J	14 J	280 U
Carbon tetrachloride	µg/kg	44000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Chlorobenzene	µg/kg	1000000	8 J	97	99	370	860	7400 J	9200 J	1400
Chloroethane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Chloroform (Trichloromethane)	µg/kg	700000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Chloromethane (Methyl Chloride)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
cis-1,2-Dichloroethene	µg/kg	1000000	59 U	51 U	59 U	8 J	52 U	63 U	65 U	280 U
cis-1,3-Dichloropropene	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Cyclohexane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Dibromochloromethane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Ethylbenzene	µg/kg	780000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Isopropylbenzene	µg/kg	NL	59 U	51 U	59 U	12 J	52 U	63 U	65 U	280 U
Methyl acetate	µg/kg	NL	59 UJ	51 UJ	59 UJ	42 UJ	52 UJ	63 U	65 U	370

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>	<i>BH3-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
Methyl cyclohexane	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	7 J	280 U
Methyl Tert Butyl Ether	µg/kg	1000000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Methylene chloride	µg/kg	1000000	120	49 J	55 J	36 J	92	40 J	50 J	280 U
Styrene	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Tetrachloroethene	µg/kg	300000	160	68	280	1700	170	790	1200	150 J
Toluene	µg/kg	1000000	12 J	51 U	59 U	33 J	38 J	650	800	110 J
trans-1,2-Dichloroethene	µg/kg	1000000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
trans-1,3-Dichloropropene	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Trichloroethene	µg/kg	400000	120	51 U	59 U	33 J	50 J	270	280	280 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Vinyl chloride	µg/kg	27000	59 U	51 U	59 U	42 U	52 U	63 U	65 U	280 U
Xylene (total)	µg/kg	1000000	<u>59 U</u>	<u>51 U</u>	<u>59 U</u>	<u>19 J</u>	<u>15 J</u>	<u>63 U</u>	<u>25 J</u>	<u>280 U</u>
Total VOCs	µg/kg	>1000000	611469	59001	86363	126727	229091	582411	915866	72940
PID	ppm		10	28	19	40	53	423	378	188

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

		<i>loc_name</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH5-08</i>	<i>BH5-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>
		<i>Depth</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	290 U	62	640 U	4400	480	69	8 J	11 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
1,1,2-Trichloroethane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
1,1-Dichloroethane	µg/kg	480000	290 U	19 J	640 U	200 J	10 J	69	23 J	35
1,1-Dichloroethene	µg/kg	1000000	290 U	58 U	640 U	320 U	9 J	50 U	56 U	11 U
1,2,4-Trichlorobenzene	µg/kg	NL	380	83	340 J	160 J	44 J	23 J	21 J	11 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
1,2-Dichlorobenzene	µg/kg	1000000	2300	16000	18000	13000	46000	45 J	26 J	3 J
1,2-Dichloroethane	µg/kg	60000	290 U	58 U	640 U	320 U	29 J	29 J	56 U	11 U
1,2-Dichloropropane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
1,3-Dichlorobenzene	µg/kg	560000	220 J	560	1800	1000	280	8 J	14 J	5 J
1,4-Dichlorobenzene	µg/kg	250000	650	3600	4700	3300	9800	24 J	23 J	6 J
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	290 U	58 U	640 U	320 U	360	750	56 U	11 U
2-Chlorotoluene	µg/kg	1000000	290 U	28 J	640 U	320 U	17 J	12 J	9400	26000
2-Hexanone	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
4-Chlorotoluene	µg/kg	1000000	290 U	19 J	640 U	320 U	9 J	50 U	3400	9800
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	290 U	58 U	640 U	320 U	110	44 J	56 U	11 U
Acetone	µg/kg	1000000	2800	58 U	3000	2700	14000	4100	210	6600
Benzene	µg/kg	89000	290 U	58 U	640 U	320 U	62 U	50 U	30 J	7 J
Bromodichloromethane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Bromoform	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Bromomethane (Methyl Bromide)	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Carbon disulfide	µg/kg	NL	290 U	6 J	640 U	320 U	12 J	14 J	8 J	2 J
Carbon tetrachloride	µg/kg	44000	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Chlorobenzene	µg/kg	1000000	290 U	49 J	640 U	85 J	26 J	24 J	6 J	3 J
Chloroethane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Chloroform (Trichloromethane)	µg/kg	700000	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Chloromethane (Methyl Chloride)	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
cis-1,2-Dichloroethene	µg/kg	1000000	110 J	38 J	640 U	320 U	62 U	50 U	9 J	10 J
cis-1,3-Dichloropropene	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Cyclohexane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	110	31
Dibromochloromethane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Ethylbenzene	µg/kg	780000	290 U	58 U	640 U	320 U	24 J	50 U	300	74
Isopropylbenzene	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	17 J	6 J
Methyl acetate	µg/kg	NL	170 J	58 U	290 J	280 J	62 U	50 U	56 U	11 U

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH4-08</i>	<i>BH5-08</i>	<i>BH5-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>
		<i>Depth</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	120	36
Methyl Tert Butyl Ether	µg/kg	1000000	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Methylene chloride	µg/kg	1000000	290 U	120	420 J	1900	340	370	94	11 U
Styrene	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Tetrachloroethene	µg/kg	300000	2300	2900	5300	11000	38000	28 J	6 J	6 J
Toluene	µg/kg	1000000	290 U	35 J	640 U	220 J	580	240	270	110
trans-1,2-Dichloroethene	µg/kg	1000000	290 U	58 U	640 U	320 U	62 U	50 U	10 J	11 U
trans-1,3-Dichloropropene	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Trichloroethene	µg/kg	400000	420	550	480 J	4700	4100	4400	74	52
Trichlorofluoromethane (CFC-11)	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	50 U	56 U	11 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	290 U	58 U	640 U	320 U	62 U	15 J	56 U	11 U
Vinyl chloride	µg/kg	27000	290 U	58 U	640 U	320 U	62 U	50 U	56 U	2 J
Xylene (total)	µg/kg	1000000	<u>290 U</u>	<u>58 U</u>	<u>640 U</u>	<u>320 U</u>	<u>120</u>	<u>50 U</u>	<u>2100</u>	<u>580</u>
Total VOCs	µg/kg	>1000000	9350	24069	34330	42945	114350	10264	16279	43368
PID	ppm		61	104	95	136	53	5.4	51	64

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

		<i>loc_name</i>	<i>BH5-08</i>	<i>BH5-08</i>	<i>BH5-08</i>	<i>BH5-08</i>	<i>BH6-08</i>	<i>BH6-08</i>	<i>BH6-08</i>	<i>BH6-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>
		<i>Depth</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	66 J	5500 U	2700 U	2 J	2 J	120	3700	5800 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
1,1,2-Trichloroethane	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
1,1-Dichloroethane	µg/kg	480000	270	5500 U	2700 U	6 J	1 J	70	380	5800 U
1,1-Dichloroethene	µg/kg	1000000	15 J	5500 U	2700 U	10 U	10 U	8 J	11 U	5800 U
1,2,4-Trichlorobenzene	µg/kg	NL	140	5500 U	2700 U	10 U	10 U	1 J	15	5800 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
1,2-Dichlorobenzene	µg/kg	1000000	300	5500 U	2700 U	10 U	18	110	2900 J	5800 U
1,2-Dichloroethane	µg/kg	60000	70 U	5500 U	2700 U	10 U	12	45	330	5800 U
1,2-Dichloropropane	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	4 J	11 U	5800 U
1,3-Dichlorobenzene	µg/kg	560000	320	5500 U	2700 U	10 U	10 U	10 J	8 J	5800 U
1,4-Dichlorobenzene	µg/kg	250000	380	5500 U	2700 U	1 J	2 J	10 J	48	5800 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	70 U	5500 U	2700 U	26	24	12 U	450	5800 U
2-Chlorotoluene	µg/kg	1000000	250000	880000	58000	380	16000	46000	280000	150000
2-Hexanone	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	50	5800 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
4-Chlorotoluene	µg/kg	1000000	120000	490000	27000	150	2000	4700	26000	15000
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	70 U	5500 U	2700 U	38	21	28	460	5800 U
Acetone	µg/kg	1000000	390	5500 U	2700 U	770	2000	1000	2200	5800 U
Benzene	µg/kg	89000	100	5500 U	2700 U	1 J	10 U	12 U	78	5800 U
Bromodichloromethane	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Bromoform	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Bromomethane (Methyl Bromide)	µg/kg	NL	70 U	5500 U	2700 U	10 UJ	10 UJ	12 UJ	11 UJ	5800 U
Carbon disulfide	µg/kg	NL	9 J	5500 U	2700 U	3 J	10 UJ	2 J	11 UJ	5800 U
Carbon tetrachloride	µg/kg	44000	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Chlorobenzene	µg/kg	1000000	130	5500 U	2700 U	12	21	84	710	5800 U
Chloroethane	µg/kg	NL	70 U	5500 U	2700 U	10 UJ	10 UJ	12 UJ	11 UJ	5800 U
Chloroform (Trichloromethane)	µg/kg	700000	70 U	5500 U	2700 U	10 U	10 U	14	310	5800 U
Chloromethane (Methyl Chloride)	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
cis-1,2-Dichloroethene	µg/kg	1000000	27 J	5500 U	2700 U	2 J	5 J	98	150	5800 U
cis-1,3-Dichloropropene	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Cyclohexane	µg/kg	NL	130	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Dibromochloromethane	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Ethylbenzene	µg/kg	780000	490	5500 U	2700 U	10 U	14	75	370	5800 U
Isopropylbenzene	µg/kg	NL	35 J	5500 U	2700 U	10 U	10 U	2 J	10 J	5800 U
Methyl acetate	µg/kg	NL	70 U	5500 U	2700 U	10 UJ	10 UJ	12 UJ	11 UJ	5800 U

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH5-08</i>	<i>BH5-08</i>	<i>BH5-08</i>	<i>BH5-08</i>	<i>BH6-08</i>	<i>BH6-08</i>	<i>BH6-08</i>	<i>BH6-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>	<i>9/17/2008</i>
		<i>Depth</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
Methyl cyclohexane	µg/kg	NL	110	5500 U	2700 U	10 U	10 U	2 J	24	5800 U
Methyl Tert Butyl Ether	µg/kg	1000000	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Methylene chloride	µg/kg	1000000	170	5500 U	960 J	17 U	49	840 J	3400	17000
Styrene	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Tetrachloroethene	µg/kg	300000	140	5500 U	2700 U	4 J	73	1600	4800 J	5800 U
Toluene	µg/kg	1000000	4400	6800	1200 J	210	63	1200 J	6900	9200
trans-1,2-Dichloroethene	µg/kg	1000000	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
trans-1,3-Dichloropropene	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Trichloroethene	µg/kg	400000	4600	2300 J	1400 J	56	48	1600	7800	17000
Trichlorofluoromethane (CFC-11)	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Trifluorotrichloroethane (Freon 113)	µg/kg	NL	70 U	5500 U	2700 U	10 U	10 U	12 U	600	5800 U
Vinyl chloride	µg/kg	27000	70 U	5500 U	2700 U	10 U	10 U	12 U	11 U	5800 U
Xylene (total)	µg/kg	1000000	<u>3300</u>	<u>5500 U</u>	<u>2700 U</u>	<u>6 J</u>	<u>74</u>	<u>340</u>	<u>3400 J</u>	<u>5800 U</u>
Total VOCs	µg/kg	>1000000	385522	1379100	88560	1667	20427	57963	345093	208200
PID	ppm		566	174	66	35	215	87	315	315

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH6-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>
		<i>Depth</i>	<i>14-16 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	1500 J	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,1,2-Trichloroethane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,1-Dichloroethane	µg/kg	480000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,1-Dichloroethene	µg/kg	1000000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,2,4-Trichlorobenzene	µg/kg	NL	5200 U	86 J	100 J	120 J	2500	750	270 U	300 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,2-Dichlorobenzene	µg/kg	1000000	3100 J	280 U	290 U	1300	4600	4400	7600	7200
1,2-Dichloroethane	µg/kg	60000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,2-Dichloropropane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
1,3-Dichlorobenzene	µg/kg	560000	5200 U	280 U	290 U	1300	7500	5600	8600	8000
1,4-Dichlorobenzene	µg/kg	250000	5200 U	280 U	290 U	1300	6200	4600	8200	8000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
2-Chlorotoluene	µg/kg	1000000	540000	2300	4800	1300	15000	6000	9700	11000
2-Hexanone	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
4-Chlorotoluene	µg/kg	1000000	49000	2300	4700	690	6800	3500	5600	5900
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Acetone	µg/kg	1000000	5200 U	280 U	290 U	440	1500	390	380	2400
Benzene	µg/kg	89000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Bromodichloromethane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Bromoform	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Bromomethane (Methyl Bromide)	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Carbon disulfide	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Carbon tetrachloride	µg/kg	44000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Chlorobenzene	µg/kg	1000000	5200 U	280 U	290 U	290 U	180 J	280 U	260 J	290 J
Chloroethane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Chloroform (Trichloromethane)	µg/kg	700000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Chloromethane (Methyl Chloride)	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
cis-1,2-Dichloroethene	µg/kg	1000000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
cis-1,3-Dichloropropene	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Cyclohexane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Dibromochloromethane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Ethylbenzene	µg/kg	780000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Isopropylbenzene	µg/kg	NL	5200 U	280 U	290 U	290 U	260 J	81 J	270 U	300 U
Methyl acetate	µg/kg	NL	5200 U	280 U	110 J	160 J	180 J	280 U	120 J	300 U

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH6-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>	<i>BH7-08</i>
		<i>sampledate</i>	<i>9/17/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>
		<i>Depth</i>	<i>14-16 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Methyl Tert Butyl Ether	µg/kg	1000000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Methylene chloride	µg/kg	1000000	5200 U	180 J	130 J	77 J	450 J	80 J	120 J	170 J
Styrene	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Tetrachloroethene	µg/kg	300000	7700	3100	7000	290 U	490 U	280 U	110 J	210 J
Toluene	µg/kg	1000000	9000	280 U	180 J	290 U	490 U	280 U	200 J	220 J
trans-1,2-Dichloroethene	µg/kg	1000000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
trans-1,3-Dichloropropene	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Trichloroethene	µg/kg	400000	6700	450	1000	290 U	490 U	280 U	94 J	130 J
Trichlorofluoromethane (CFC-11)	µg/kg	NL	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Trifluorotrichloroethane (Freon 113)	µg/kg	NL	2800 J	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Vinyl chloride	µg/kg	27000	5200 U	280 U	290 U	290 U	490 U	280 U	270 U	300 U
Xylene (total)	µg/kg	1000000	<u>5200 U</u>	<u>280 U</u>	<u>290 U</u>	<u>290 U</u>	<u>490 U</u>	<u>280 U</u>	<u>310</u>	<u>330</u>
Total VOCs	µg/kg	>1000000	619800	8416	18020	6687	45170	25401	41294	43850
PID	ppm		131	61	15	11	27	18	17	37

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH9-08</i>	<i>BH9-08</i>
		<i>sampledate</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>
		<i>Depth</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>		<i>4-6 ft BGS</i>	<i>10-12 ft BGS</i>
	<i>NYSDEC</i>										
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>									
1,1,1-Trichloroethane	µg/kg	1000000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,1,2-Trichloroethane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,1-Dichloroethane	µg/kg	480000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,1-Dichloroethene	µg/kg	1000000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,2,4-Trichlorobenzene	µg/kg	NL	360 U	54000	19000	120000	100000	80000		300 U	300 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,2-Dichlorobenzene	µg/kg	1000000	99 J	33000	98000	340000	240000	190000		300 U	300 U
1,2-Dichloroethane	µg/kg	60000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,2-Dichloropropane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
1,3-Dichlorobenzene	µg/kg	560000	320 J	54000	180000	580000	420000	330000		300 U	300 U
1,4-Dichlorobenzene	µg/kg	250000	240 J	50000	150000	510000	370000	300000		300 U	300 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
2-Chlorotoluene	µg/kg	1000000	1800	46000	78000	330000	240000	190000		300 U	120 J
2-Hexanone	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--		--	--
3-Chlorotoluene	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
4-Chlorotoluene	µg/kg	1000000	2700	54000	87000	370000	290000	240000		300 U	300 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Acetone	µg/kg	1000000	7900	6000	2500 U	2800 U	2700 U	2300 U		300 U	4200
Benzene	µg/kg	89000	360 U	290 U	2500 U	14000	13000	13000		300 U	300 U
Bromodichloromethane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Bromoform	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Bromomethane (Methyl Bromide)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Carbon disulfide	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Carbon tetrachloride	µg/kg	44000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Chlorobenzene	µg/kg	1000000	350 J	5600	35000	130000	120000	100000		300 U	540
Chloroethane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Chloroform (Trichloromethane)	µg/kg	700000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Chloromethane (Methyl Chloride)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
cis-1,2-Dichloroethene	µg/kg	1000000	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
cis-1,3-Dichloropropene	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Cyclohexane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Dibromochloromethane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U		300 U	300 U
Ethylbenzene	µg/kg	780000	360 U	270 J	2500 U	1400 J	1500 J	1100 J		300 U	270 J
Isopropylbenzene	µg/kg	NL	360 U	17000	3800	45000	36000	27000		300 U	480
Methyl acetate	µg/kg	NL	280 J	610	2500 U	2800 U	2700 U	2300 U		190 J	20000

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH8-08</i>	<i>BH9-08</i>	<i>BH9-08</i>
		<i>sampledate</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/18/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>
		<i>Depth</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>4-6 ft BGS</i>	<i>10-12 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Methyl Tert Butyl Ether	µg/kg	1000000	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Methylene chloride	µg/kg	1000000	120 J	190 J	1400 J	1600 J	1700 J	1400 J	370 J	300 U
Styrene	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Tetrachloroethene	µg/kg	300000	360 U	100 J	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Toluene	µg/kg	1000000	110 J	640	3200	12000	12000	10000	300 U	340
trans-1,2-Dichloroethene	µg/kg	1000000	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
trans-1,3-Dichloropropene	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Trichloroethene	µg/kg	400000	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Vinyl chloride	µg/kg	27000	360 U	290 U	2500 U	2800 U	2700 U	2300 U	300 U	300 U
Xylene (total)	µg/kg	1000000	<u>360 U</u>	<u>2000</u>	<u>2500 U</u>	<u>7800</u>	<u>8300</u>	<u>6000</u>	<u>300 U</u>	<u>2200</u>
Total VOCs	µg/kg	>1000000	13919	323410	655400	2461800	1852500	1488500	560	28150
PID	ppm		83	18	136	299	349	114	2.3	55

Notes:

☐ Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

■ Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

	<i>loc_name</i>	<i>BH9-08</i>	<i>BH10-08</i>	<i>BH10-08</i>	<i>BH10-08</i>	<i>BH11-08</i>	<i>BH11-08</i>	<i>BH11-08</i>	<i>BH11-08</i>	
	<i>sampledate</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	
	<i>Depth</i>	<i>12-14 ft BGS</i>	<i>0-2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>10-12 ft BGS</i>	<i>2-4 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,1,2-Trichloroethane	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,1-Dichloroethane	µg/kg	480000	300 U	90 J	290 U	320 U	260 U	300 U	300 U	310 U
1,1-Dichloroethene	µg/kg	1000000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,2,4-Trichlorobenzene	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	100000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,2-Dichlorobenzene	µg/kg	1000000	300 U	290 U	290 U	320 U	260 U	650	2600	2800
1,2-Dichloroethane	µg/kg	60000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,2-Dichloropropane	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
1,3-Dichlorobenzene	µg/kg	560000	300 U	290 U	290 U	320 U	260 U	1600	5700	4200
1,4-Dichlorobenzene	µg/kg	250000	300 U	290 U	290 U	320 U	260 U	310	1000	1000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
2-Chlorotoluene	µg/kg	1000000	300 U	190000	6900	1400	260 U	920	6700	7100
2-Hexanone	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
4-Chlorotoluene	µg/kg	1000000	300 U	290 U	290 U	320 U	260 U	470	5400	6400
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Acetone	µg/kg	1000000	3200	570	6200	1600	750	620	5500	310 U
Benzene	µg/kg	89000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Bromodichloromethane	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Bromoform	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Bromomethane (Methyl Bromide)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Carbon disulfide	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Carbon tetrachloride	µg/kg	44000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Chlorobenzene	µg/kg	1000000	530	93 J	290 U	320 U	260 U	300 U	300 U	310 U
Chloroethane	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Chloroform (Trichloromethane)	µg/kg	700000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Chloromethane (Methyl Chloride)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
cis-1,2-Dichloroethene	µg/kg	1000000	300 U	180 J	290 U	320 U	260 U	300 U	300 U	460
cis-1,3-Dichloropropene	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Cyclohexane	µg/kg	NL	300 U	77 J	290 U	320 U	260 U	300 U	300 U	310 U
Dibromochloromethane	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Ethylbenzene	µg/kg	780000	79 J	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Isopropylbenzene	µg/kg	NL	390	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Methyl acetate	µg/kg	NL	190 J	290 UJ	290 UJ	320 UJ	260 UJ	300 UJ	90 J	310 UJ

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH9-08</i>	<i>BH10-08</i>	<i>BH10-08</i>	<i>BH10-08</i>	<i>BH11-08</i>	<i>BH11-08</i>	<i>BH11-08</i>	<i>BH11-08</i>
		<i>sampledate</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>	<i>9/19/2008</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>0-2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>10-12 ft BGS</i>	<i>2-4 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
	<i>Units</i>	<i>NYSDEC SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	300 U	240 J	290 U	320 U	260 U	300 U	300 U	310 U
Methyl Tert Butyl Ether	µg/kg	1000000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Methylene chloride	µg/kg	1000000	350 J	280 J	290 U	290 J	200 J	230 J	300 U	280 J
Styrene	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Tetrachloroethene	µg/kg	300000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	2100
Toluene	µg/kg	1000000	210 J	120 J	290 U	320 U	260 U	300 U	300 U	310 U
trans-1,2-Dichloroethene	µg/kg	1000000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
trans-1,3-Dichloropropene	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Trichloroethene	µg/kg	400000	300 U	140 J	290 U	320 U	260 U	300 U	300 U	310 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Vinyl chloride	µg/kg	27000	300 U	290 U	290 U	320 U	260 U	300 U	300 U	310 U
Xylene (total)	µg/kg	1000000	<u>700</u>	<u>190 J</u>	<u>290 U</u>	<u>320 U</u>	<u>260 U</u>	<u>300 U</u>	<u>300 U</u>	<u>310 U</u>
Total VOCs	µg/kg	>1000000	5649	191980	13100	3290	950	4800	26990	124340
PID	ppm		29	16	38	14	24	14	79	6.7

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

		<i>loc_name</i>	<i>BH11-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>
		<i>sampledate</i>	<i>9/19/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>2-4 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
		<i>NYSDEC</i>			<i>(Duplicate)</i>					
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,1,2-Trichloroethane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,1-Dichloroethane	µg/kg	480000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	86 J
1,1-Dichloroethene	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,2,4-Trichlorobenzene	µg/kg	NL	460000	1000000	540000	810000	36000	7700	4000	160 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,2-Dichlorobenzene	µg/kg	1000000	15000	560000	220000	820000	50000	12000	24000	1300
1,2-Dichloroethane	µg/kg	60000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,2-Dichloropropane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
1,3-Dichlorobenzene	µg/kg	560000	12000	460000	170000	580000	45000	13000	25000	1500
1,4-Dichlorobenzene	µg/kg	250000	4400 J	400000	140000	1000000	59000	15000	29000	1600
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
2-Chlorotoluene	µg/kg	1000000	14000	410000	150000	900000	150000	46000	44000	7800
2-Hexanone	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
4-Chlorotoluene	µg/kg	1000000	12000	84000	28000	830000	82000	16000	23000	2900
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Acetone	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Benzene	µg/kg	89000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Bromodichloromethane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Bromoform	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Bromomethane (Methyl Bromide)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Carbon disulfide	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 UJ	1700 U	260 UJ
Carbon tetrachloride	µg/kg	44000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Chlorobenzene	µg/kg	1000000	10000 U	66000 U	26000 U	140000	16000	2500	20000	1600
Chloroethane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Chloroform (Trichloromethane)	µg/kg	700000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Chloromethane (Methyl Chloride)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
cis-1,2-Dichloroethene	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
cis-1,3-Dichloropropene	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Cyclohexane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Dibromochloromethane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Ethylbenzene	µg/kg	780000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Isopropylbenzene	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Methyl acetate	µg/kg	NL	10000 U	66000 UJ	26000 UJ	65000 UJ	3400 UJ	1200 U	1700 UJ	290

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH11-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>	<i>BH12-08</i>
		<i>sampledate</i>	<i>9/19/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>	<i>9/22/2008</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>2-4 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>
					<i>(Duplicate)</i>					
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Methyl Tert Butyl Ether	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Methylene chloride	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Styrene	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Tetrachloroethene	µg/kg	300000	29000	42000 J	9200 J	120000	5500	1200 U	4200	110 J
Toluene	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1200 J	85 J
trans-1,2-Dichloroethene	µg/kg	1000000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
trans-1,3-Dichloropropene	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Trichloroethene	µg/kg	400000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	3200	260 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Vinyl chloride	µg/kg	27000	10000 U	66000 U	26000 U	65000 U	3400 U	1200 U	1700 U	260 U
Xylene (total)	µg/kg	1000000	<u>10000 U</u>	<u>66000 U</u>	<u>26000 U</u>	<u>65000 U</u>	<u>3400 U</u>	<u>1200 U</u>	<u>1700 U</u>	<u>260 U</u>
Total VOCs	µg/kg	>1000000	546400	2956000	1257200	5200000	443500	112200	177600	17431
PID	ppm		718	216	216	690	385	1298	674	86

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH14-08</i>	<i>BH14-08</i>
		<i>sampledate</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,1,2-Trichloroethane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,1-Dichloroethane	µg/kg	480000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,1-Dichloroethene	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	R	R
1,2,4-Trichlorobenzene	µg/kg	NL	80 J	300 U	310 U	270 U	680 J	170 J	87 J	390 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,2-Dichlorobenzene	µg/kg	1000000	260 U	440	97 J	920	1600	620	290 U	400 J
1,2-Dichloroethane	µg/kg	60000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,2-Dichloropropane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
1,3-Dichlorobenzene	µg/kg	560000	260 U	300 U	310 U	380	2400	640	290 U	520 U
1,4-Dichlorobenzene	µg/kg	250000	260 U	120 J	310 U	510	2200	720	290 U	520 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
2-Chlorotoluene	µg/kg	1000000	260 U	3900	1200	5900	53000	18000	84 J	520 U
2-Hexanone	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
4-Chlorotoluene	µg/kg	1000000	260 U	500	150 J	870	5800	2200	290 U	520 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Acetone	µg/kg	1000000	260 U	300 U	1100 U	5100	1400 U	740 U	290 U	520 U
Benzene	µg/kg	89000	260 U	300 U	310 U	270 U	1400 U	560 U	R	R
Bromodichloromethane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Bromoform	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Bromomethane (Methyl Bromide)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Carbon disulfide	µg/kg	NL	260 U	300 U	310 U	270 UJ	1400 U	560 U	290 U	520 U
Carbon tetrachloride	µg/kg	44000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Chlorobenzene	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	150 J	R	R
Chloroethane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Chloroform (Trichloromethane)	µg/kg	700000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Chloromethane (Methyl Chloride)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
cis-1,2-Dichloroethene	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
cis-1,3-Dichloropropene	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Cyclohexane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Dibromochloromethane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Ethylbenzene	µg/kg	780000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Isopropylbenzene	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	190 J	15000
Methyl acetate	µg/kg	NL	260 UJ	120 J	520 J	240 J	1400 U	560 U	290 U	520 U

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH13-08</i>	<i>BH14-08</i>	<i>BH14-08</i>
		<i>sampledate</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Methyl Tert Butyl Ether	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Methylene chloride	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Styrene	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Tetrachloroethene	µg/kg	300000	150 J	300 U	310 U	270 U	1400 U	560 U	470	520 U
Toluene	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	R	R
trans-1,2-Dichloroethene	µg/kg	1000000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
trans-1,3-Dichloropropene	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Trichloroethene	µg/kg	400000	260 U	300 U	310 U	270 U	1400 U	560 U	R	R
Trichlorofluoromethane (CFC-11)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Trifluorotrichloroethane (Freon 113)	µg/kg	NL	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Vinyl chloride	µg/kg	27000	260 U	300 U	310 U	270 U	1400 U	560 U	290 U	520 U
Xylene (total)	µg/kg	1000000	<u>260 U</u>	<u>300 U</u>	<u>310 U</u>	<u>270 U</u>	<u>1400 U</u>	<u>560 U</u>	<u>290 U</u>	<u>520 U</u>
Total VOCs	µg/kg	>1000000	230	5080	1967	13920	65680	22500	831	15790
PID	ppm		1.7	7.0	5.6	92	28	--	4.1	77

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

	<i>loc_name</i>	<i>BH14-08</i>	<i>BH14-08</i>	<i>BH14-08</i>	<i>BH15-08</i>	<i>BH15-08</i>	<i>BH15-08</i>	<i>BH15-08</i>	<i>BH15-08</i>	
	<i>sampledate</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	
	<i>Depth</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	
				<i>(Duplicate)</i>						
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,1,2-Trichloroethane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,1-Dichloroethane	µg/kg	480000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,1-Dichloroethene	µg/kg	1000000	310 U	610 U	320 U	1300 U	310 UJ	580 U	310 U	25000 U
1,2,4-Trichlorobenzene	µg/kg	NL	130 J	610 U	120 J	1300 U	310 U	580 U	14000	51000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,2-Dichlorobenzene	µg/kg	1000000	340	920	350	1300 U	310 U	320 J	8300	22000 J
1,2-Dichloroethane	µg/kg	60000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,2-Dichloropropane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
1,3-Dichlorobenzene	µg/kg	560000	310 U	610 U	320 U	1300 U	310 U	580 U	9000	30000
1,4-Dichlorobenzene	µg/kg	250000	80 J	610 U	320 U	1300 U	310 U	150 J	10000	33000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
2-Chlorotoluene	µg/kg	1000000	140 J	610 U	110 J	27000	4600	13000	140000	570000
2-Hexanone	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
4-Chlorotoluene	µg/kg	1000000	310 U	610 U	320 U	37000	6600	16000	30000	58000
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Acetone	µg/kg	1000000	310 U	1300	320 U	1300 U	310 U	580 U	620	25000 U
Benzene	µg/kg	89000	310 U	610 U	320 U	1300 U	310 U	580 U	1300	25000 U
Bromodichloromethane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Bromoform	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Bromomethane (Methyl Bromide)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Carbon disulfide	µg/kg	NL	310 U	610 UJ	320 U	1300 U	310 U	580 U	310 U	25000 U
Carbon tetrachloride	µg/kg	44000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Chlorobenzene	µg/kg	1000000	310 U	180 J	320 U	2400	270 J	670	3600	10000 J
Chloroethane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Chloroform (Trichloromethane)	µg/kg	700000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Chloromethane (Methyl Chloride)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
cis-1,2-Dichloroethene	µg/kg	1000000	310 U	160 J	320 U	1300 U	310 U	580 U	310 U	25000 U
cis-1,3-Dichloropropene	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Cyclohexane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Dibromochloromethane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Ethylbenzene	µg/kg	780000	150 J	930	160 J	1300 U	310 U	580 U	310 U	25000 U
Isopropylbenzene	µg/kg	NL	9100	36000	9500	1300 U	310 U	580 U	310 U	25000 U
Methyl acetate	µg/kg	NL	310 UJ	610 U	320 UJ	1300 UJ	350 J	290 J	160 J	25000 UJ

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH14-08</i>	<i>BH14-08</i>	<i>BH14-08</i>	<i>BH15-08</i>	<i>BH15-08</i>	<i>BH15-08</i>	<i>BH15-08</i>	<i>BH15-08</i>
		<i>sampledate</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>
		<i>Depth</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
					<i>(Duplicate)</i>					
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Methyl Tert Butyl Ether	µg/kg	1000000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Methylene chloride	µg/kg	1000000	210 J	610 UJ	320 U	1300 U	310 U	580 U	310 U	25000 U
Styrene	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Tetrachloroethene	µg/kg	300000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Toluene	µg/kg	1000000	310 U	610 U	320 U	1300 U	310 U	580 U	1100	25000 U
trans-1,2-Dichloroethene	µg/kg	1000000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
trans-1,3-Dichloropropene	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Trichloroethene	µg/kg	400000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Vinyl chloride	µg/kg	27000	310 U	610 U	320 U	1300 U	310 U	580 U	310 U	25000 U
Xylene (total)	µg/kg	1000000	<u>520</u>	<u>3100</u>	<u>550</u>	<u>1300 U</u>	<u>310 U</u>	<u>580 U</u>	<u>310 U</u>	<u>25000 U</u>
Total VOCs	µg/kg	>1000000	10670	42590	10790	66400	11820	30430	218080	774000
PID	ppm		1291	1291	77	68	219	68	70	181

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

		<i>loc_name</i>	<i>BH15-08</i>	<i>BH16-08</i>	<i>BH16-08</i>	<i>BH16-08</i>	<i>BH16-08</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH17-08</i>
		<i>sampledate</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,1,2-Trichloroethane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,1-Dichloroethane	µg/kg	480000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,1-Dichloroethene	µg/kg	1000000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,2,4-Trichlorobenzene	µg/kg	NL	170 J	1400	490	33000000	93000	1400 J	900	11 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,2-Dichlorobenzene	µg/kg	1000000	270	880	1500	23000000	120000	1500 U	260 J	8 J
1,2-Dichloroethane	µg/kg	60000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,2-Dichloropropane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
1,3-Dichlorobenzene	µg/kg	560000	180 J	590	390	960000	5300	1500 U	320 U	2 J
1,4-Dichlorobenzene	µg/kg	250000	250 J	480	650	3700000	20000	1500 U	320 U	2 J
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	270 U	280 U	370 U	590000 U	5000	1500 U	320 U	12 U
2-Chlorotoluene	µg/kg	1000000	6400	540	1200	3100000	16000	1500 U	110 J	9 J
2-Hexanone	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
4-Chlorotoluene	µg/kg	1000000	650	300	790	11000000	98000	1500 U	320 U	4 J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Acetone	µg/kg	1000000	1200	280 U	1100	590000 U	2700 U	1500 U	10000	4400 J
Benzene	µg/kg	89000	230 J	280 U	430	620000	48000	1500 U	320 U	2 J
Bromodichloromethane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Bromoform	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Bromomethane (Methyl Bromide)	µg/kg	NL	270 U	280 U	370 UJ	590000 UJ	2700 U	1500 UJ	320 UJ	12 U
Carbon disulfide	µg/kg	NL	270 UJ	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Carbon tetrachloride	µg/kg	44000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Chlorobenzene	µg/kg	1000000	1300	160 J	520	210000 J	5200	1500 U	320 U	2 J
Chloroethane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Chloroform (Trichloromethane)	µg/kg	700000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Chloromethane (Methyl Chloride)	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
cis-1,2-Dichloroethene	µg/kg	1000000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
cis-1,3-Dichloropropene	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Cyclohexane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Dibromochloromethane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Ethylbenzene	µg/kg	780000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Isopropylbenzene	µg/kg	NL	270 U	280 U	210 J	590000 U	2700 U	1500 U	320 U	12 U
Methyl acetate	µg/kg	NL	180 J	280 UJ	370 U	590000 U	2700 U	1500 U	320 U	12 U

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH15-08</i>	<i>BH16-08</i>	<i>BH16-08</i>	<i>BH16-08</i>	<i>BH16-08</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH17-08</i>
		<i>sampledate</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/23/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	130 J	12 U
Methyl Tert Butyl Ether	µg/kg	1000000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Methylene chloride	µg/kg	1000000	270 UJ	280 U	370 UJ	590000 UJ	2700 U	1500 UJ	320 UJ	9 J
Styrene	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Tetrachloroethene	µg/kg	300000	270 U	150 J	370 U	590000 U	2700 U	1500 U	320 U	2 J
Toluene	µg/kg	1000000	430	280 U	370 U	270000 J	7500	1500 U	130 J	2 J
trans-1,2-Dichloroethene	µg/kg	1000000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
trans-1,3-Dichloropropene	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Trichloroethene	µg/kg	400000	270 U	99 J	370 U	590000 U	2700 U	1500 U	100 J	12 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Vinyl chloride	µg/kg	27000	270 U	280 U	370 U	590000 U	2700 U	1500 U	320 U	12 U
Xylene (total)	µg/kg	1000000	<u>270 U</u>	<u>280 U</u>	<u>370 U</u>	<u>590000 U</u>	<u>2700 U</u>	<u>1500 U</u>	<u>320 U</u>	<u>12 U</u>
Total VOCs	µg/kg	>1000000	11260	4599	7280	75860000	418000	1400	11630	4453
PID	ppm		225	3.9	35	671	1690	1.7	112	112

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

	<i>loc_name</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH18-08</i>	<i>BH18-08</i>	<i>BH18-08</i>	<i>BH18-08</i>	
	<i>sampledate</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	
	<i>Depth</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,1,2-Trichloroethane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,1-Dichloroethane	µg/kg	480000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,1-Dichloroethene	µg/kg	1000000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,2,4-Trichlorobenzene	µg/kg	NL	280 J	430 J	200 J	240 U	280 U	310 U	590 U	300 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	300 UJ	1200 UJ	530 U	240 UJ	280 UJ	310 UJ	590 UJ	300 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,2-Dichlorobenzene	µg/kg	1000000	270 J	410 J	530 U	240 U	280 U	310 U	590 U	300 U
1,2-Dichloroethane	µg/kg	60000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,2-Dichloropropane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
1,3-Dichlorobenzene	µg/kg	560000	330	290 J	530 U	240 U	280 U	310 U	590 U	300 U
1,4-Dichlorobenzene	µg/kg	250000	340	350 J	530 U	240 U	280 U	310 U	590 U	300 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	300 UJ	1200 UJ	530 U	240 UJ	280 UJ	310 UJ	590 UJ	300 U
2-Chlorotoluene	µg/kg	1000000	6400	33000	21000	1700	4800	13000	16000	20000
2-Hexanone	µg/kg	NL	300 UJ	1200 UJ	530 U	240 UJ	280 UJ	310 UJ	590 UJ	300 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
4-Chlorotoluene	µg/kg	1000000	3600	6900	4300	260	120 J	370	550 J	560
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	300 UJ	1200 UJ	530 U	240 UJ	280 UJ	310 UJ	590 UJ	300 U
Acetone	µg/kg	1000000	590 J	1200 UJ	29000	2400 J	280 UJ	1100 J	1600 J	970
Benzene	µg/kg	89000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Bromodichloromethane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Bromoform	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Bromomethane (Methyl Bromide)	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Carbon disulfide	µg/kg	NL	300 U	1200 U	530 UJ	240 U	280 U	310 U	590 U	300 UJ
Carbon tetrachloride	µg/kg	44000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Chlorobenzene	µg/kg	1000000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Chloroethane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Chloroform (Trichloromethane)	µg/kg	700000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Chloromethane (Methyl Chloride)	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
cis-1,2-Dichloroethene	µg/kg	1000000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
cis-1,3-Dichloropropene	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Cyclohexane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Dibromochloromethane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	300 UJ	1200 UJ	530 U	240 UJ	280 UJ	310 UJ	590 UJ	300 U
Ethylbenzene	µg/kg	780000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Isopropylbenzene	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Methyl acetate	µg/kg	NL	300 UJ	1200 UJ	530 U	240 UJ	190 J	310 UJ	590 UJ	170 J

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH17-08</i>	<i>BH18-08</i>	<i>BH18-08</i>	<i>BH18-08</i>	<i>BH18-08</i>
		<i>sampledate</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>
		<i>Depth</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Methyl Tert Butyl Ether	µg/kg	1000000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Methylene chloride	µg/kg	1000000	130 J	1200 U	530 UJ	110 J	280 U	76 J	590 U	300 UJ
Styrene	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Tetrachloroethene	µg/kg	300000	200 J	4100	2200	1200	280 U	310 U	590 U	300 U
Toluene	µg/kg	1000000	300 U	1200 U	530 U	110 J	280 U	310 U	590 U	300 U
trans-1,2-Dichloroethene	µg/kg	1000000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
trans-1,3-Dichloropropene	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Trichloroethene	µg/kg	400000	65 J	420 J	260 J	830	280 U	310 U	590 U	300 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Vinyl chloride	µg/kg	27000	300 U	1200 U	530 U	240 U	280 U	310 U	590 U	300 U
Xylene (total)	µg/kg	1000000	<u>300 U</u>	<u>1200 U</u>	<u>530 U</u>	<u>240 U</u>	<u>280 U</u>	<u>310 U</u>	<u>590 U</u>	<u>300 U</u>
Total VOCs	µg/kg	>1000000	12205	45900	56960	6610	5110	14546	18150	21700
PID	ppm		68	128	164	117	5.3	56	21	44

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

	<i>loc_name</i>	<i>BH18-08</i>	<i>BH18-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	
	<i>sampledate</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	
	<i>Depth</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,1,2-Trichloroethane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,1-Dichloroethane	µg/kg	480000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,1-Dichloroethene	µg/kg	1000000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,2,4-Trichlorobenzene	µg/kg	NL	2600 U	270 U	130 J	280 U	290 U	300 U	300 U	1600 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	2600 UJ	270 UJ	310 UJ	280 UJ	290 UJ	300 U	300 U	1600 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,2-Dichlorobenzene	µg/kg	1000000	2600 U	270 U	310	240 J	1600	2000	3300	23000
1,2-Dichloroethane	µg/kg	60000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,2-Dichloropropane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
1,3-Dichlorobenzene	µg/kg	560000	2600 U	270 U	410	350	5500	5200	6400	45000
1,4-Dichlorobenzene	µg/kg	250000	2600 U	270 U	320	300	4000	4100	5000	48000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	2600 UJ	270 UJ	310 UJ	280 UJ	290 UJ	300 U	300 U	1600 UJ
2-Chlorotoluene	µg/kg	1000000	79000	900	320	190 J	350	260 J	280 J	2600
2-Hexanone	µg/kg	NL	2600 UJ	270 UJ	310 UJ	280 UJ	290 UJ	300 U	300 U	1600 UJ
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
4-Chlorotoluene	µg/kg	1000000	13000	370	110 J	72 J	890	700	870	10000
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	2600 UJ	270 UJ	310 UJ	280 UJ	290 UJ	300 U	300 U	1600 UJ
Acetone	µg/kg	1000000	2600 UJ	440 J	310 UJ	280 UJ	290 UJ	490	300 U	1600 UJ
Benzene	µg/kg	89000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Bromodichloromethane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Bromoform	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Bromomethane (Methyl Bromide)	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Carbon disulfide	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 UJ	1600 U
Carbon tetrachloride	µg/kg	44000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Chlorobenzene	µg/kg	1000000	2600 U	270 U	310 U	280 U	190 J	150 J	94 J	7300
Chloroethane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Chloroform (Trichloromethane)	µg/kg	700000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Chloromethane (Methyl Chloride)	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
cis-1,2-Dichloroethene	µg/kg	1000000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	3500
cis-1,3-Dichloropropene	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Cyclohexane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Dibromochloromethane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	2600 UJ	270 UJ	310 UJ	280 UJ	290 UJ	300 U	300 U	1600 UJ
Ethylbenzene	µg/kg	780000	2600 U	270 U	310 U	280 U	96 J	82 J	300 U	1600 U
Isopropylbenzene	µg/kg	NL	2600 U	270 U	4000	4200	2800	1700	630	750 J
Methyl acetate	µg/kg	NL	2600 UJ	270 UJ	180 J	280 UJ	290 UJ	160 J	300 U	1600 UJ

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH18-08</i>	<i>BH18-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>	<i>BH19-08</i>
		<i>sampledate</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>	<i>9/24/2008</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Methyl Tert Butyl Ether	µg/kg	1000000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Methylene chloride	µg/kg	1000000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Styrene	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Tetrachloroethene	µg/kg	300000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Toluene	µg/kg	1000000	2600 U	330	310 U	280 U	290 U	300 U	300 U	1000 J
trans-1,2-Dichloroethene	µg/kg	1000000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
trans-1,3-Dichloropropene	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Trichloroethene	µg/kg	400000	2600 U	1300	310 U	280 U	290 U	300 U	300 U	1600 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Vinyl chloride	µg/kg	27000	2600 U	270 U	310 U	280 U	290 U	300 U	300 U	1600 U
Xylene (total)	µg/kg	1000000	<u>2600 U</u>	<u>270 U</u>	<u>310 U</u>	<u>280 U</u>	<u>290 U</u>	<u>300 U</u>	<u>300 U</u>	<u>1600 U</u>
Total VOCs	µg/kg	>1000000	92000	3340	5780	5352	15426	14842	16574	141150
PID	ppm		19	7.7	7.7	1.7	6.7	6.7	7.7	6.3

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH21</i>
		<i>sampledate</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>4/12/2010</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>7-9 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	3 J	12 U	12 U	12 U	13 U	13 U	11 U	120 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	12 UJ	12 UJ	12 UJ	12 UJ	13 U	13 UJ	11 UJ	120 U
1,1,2-Trichloroethane	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
1,1-Dichloroethane	µg/kg	480000	3 J	2 J	2 J	45	13 U	190	7 J	120 U
1,1-Dichloroethene	µg/kg	1000000	12 U	12 U	12 U	12 U	13 U	12 J	11 U	120 U
1,2,4-Trichlorobenzene	µg/kg	NL	12 U	12 U	12 U	4 J	13 U	13 U	11 U	2700
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	12 UJ	12 UJ	12 UJ	12 UJ	13 U	13 UJ	11 UJ	120 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
1,2-Dichlorobenzene	µg/kg	1000000	12 U	12 U	12 U	6 J	13 U	13 U	11 U	2200
1,2-Dichloroethane	µg/kg	60000	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
1,2-Dichloropropane	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
1,3-Dichlorobenzene	µg/kg	560000	12 U	12 U	12 U	10 J	13 U	13 U	11 U	4300
1,4-Dichlorobenzene	µg/kg	250000	12 U	12 U	12 U	10 J	13 U	13 U	11 U	3000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	12 UJ	8 J	12 UJ	12 UJ	13 U	13 UJ	32 J	610 U
2-Chlorotoluene	µg/kg	1000000	8 J	140	660	8400	90	10 J	13	2400
2-Hexanone	µg/kg	NL	12 UJ	12 UJ	12 UJ	12 UJ	13 U	13 UJ	11 UJ	610 U
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	610 UJ
3-Chlorotoluene	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
4-Chlorotoluene	µg/kg	1000000	4 J	18	540	7400	110	9 J	9 J	1500
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	12 UJ	12 UJ	12 UJ	12 UJ	13 U	13 UJ	11 UJ	610 U
Acetone	µg/kg	1000000	26 UJ	77 J	60 UJ	45 UJ	86	94 J	370 J	610 U
Benzene	µg/kg	89000	12 U	12 U	12 U	12 U	13 U	2 J	11 U	120 U
Bromodichloromethane	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Bromoform	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Bromomethane (Methyl Bromide)	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Carbon disulfide	µg/kg	NL	12 U	2 J	2 J	4 J	13 U	2 J	2 J	120 UJ
Carbon tetrachloride	µg/kg	44000	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Chlorobenzene	µg/kg	1000000	12 U	12 U	12 U	1 J	13 U	13 U	11 U	76 J
Chloroethane	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 UJ
Chloroform (Trichloromethane)	µg/kg	700000	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Chloromethane (Methyl Chloride)	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
cis-1,2-Dichloroethene	µg/kg	1000000	12 U	12 U	12 U	6 J	13 U	30	11 U	120 U
cis-1,3-Dichloropropene	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Cyclohexane	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Dibromochloromethane	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Ethylbenzene	µg/kg	780000	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Isopropylbenzene	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	--
Methyl acetate	µg/kg	NL	12 UJ	12 UJ	12 UJ	12 UJ	13 U	13 UJ	11 UJ	120 UJ

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH20-08</i>	<i>BH21</i>
		<i>sampledate</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>11/12/2008</i>	<i>4/12/2010</i>
		<i>Depth</i>	<i>0-2 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>7-9 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Methyl Tert Butyl Ether	µg/kg	1000000	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Methylene chloride	µg/kg	1000000	22 U	16 U	17 U	13 U	21 U	140	11 U	120 U
Styrene	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Tetrachloroethene	µg/kg	300000	5 J	12 U	12 U	3 J	13 U	13 U	11 U	1400
Toluene	µg/kg	1000000	12 U	12 U	12 U	23	13 U	13 U	11 U	120 U
trans-1,2-Dichloroethene	µg/kg	1000000	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
trans-1,3-Dichloropropene	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Trichloroethene	µg/kg	400000	110	12 U	12 U	20	13 U	13 U	11 U	120 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	12 U	12 U	12 U	12 U	13 U	13 U	11 U	120 U
Vinyl chloride	µg/kg	27000	12 U	12 U	12 U	12 U	13 U	4 J	11 U	120 U
Xylene (total)	µg/kg	1000000	<u>12 U</u>	<u>12 U</u>	<u>12 U</u>	<u>12 U</u>	<u>13 U</u>	<u>13 U</u>	<u>11 U</u>	<u>240 U</u>
Total VOCs	µg/kg	>1000000	133	247	1204	15932	286	493	433	17576
PID	ppm		0.1	0.5	0.3	11.6	0.5	0.7	1.6	2.2

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH21</i>	<i>BH21</i>	<i>BH21</i>	<i>BH22</i>	<i>BH22</i>	<i>BH22</i>	<i>BH22</i>	<i>BH22</i>
		<i>sampledate</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>
		<i>Depth</i>	<i>9-11 ft BGS</i>	<i>11-13 ft BGS</i>	<i>13-13.3 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,1,2-Trichloroethane	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,1-Dichloroethane	µg/kg	480000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,1-Dichloroethene	µg/kg	1000000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,2,4-Trichlorobenzene	µg/kg	NL	19000	18000	10000	1200	140	590	12000 U	120 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	120 UJ	110 UJ	110 UJ	120 UJ	120 UJ	120 UJ	12000 U	120 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,2-Dichlorobenzene	µg/kg	1000000	18000	25000	18000	600	74 J	1300	12000 U	66 J
1,2-Dichloroethane	µg/kg	60000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,2-Dichloropropane	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
1,3-Dichlorobenzene	µg/kg	560000	29000	40000	30000	890	88 J	1600	12000 U	120 U
1,4-Dichlorobenzene	µg/kg	250000	25000	35000	25000	940	98 J	1500	12000 U	70 J
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	610 U	540 U	540 U	580 U	600 U	620 U	59000 U	590 U
2-Chlorotoluene	µg/kg	1000000	21000	17000	25000	820000	78000	67000	1200000 J	11000
2-Hexanone	µg/kg	NL	610 U	690	540 U	580 U	600 U	620 U	59000 U	590 U
2-Nitropropane	µg/kg	--	610 UJ	540 UJ	540 UJ	580 UJ	600 UJ	620 UJ	59000 UJ	590 UJ
3-Chlorotoluene	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
4-Chlorotoluene	µg/kg	1000000	21000	19000	25000	390000	36000	54000	490000	5700
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	610 U	540 U	540 U	580 U	600 U	620 U	59000 U	590 U
Acetone	µg/kg	1000000	610 U	540 U	540 U	620	1500	940	59000 U	720
Benzene	µg/kg	89000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Bromodichloromethane	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Bromoform	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Bromomethane (Methyl Bromide)	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Carbon disulfide	µg/kg	NL	120 UJ	110 UJ	110 UJ	120 UJ	120 UJ	120 UJ	12000 UJ	120 UJ
Carbon tetrachloride	µg/kg	44000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Chlorobenzene	µg/kg	1000000	500	4900	2600	120 U	120 U	500	12000 U	120 U
Chloroethane	µg/kg	NL	120 UJ	110 UJ	110 UJ	120 UJ	120 UJ	120 UJ	12000 U	120 U
Chloroform (Trichloromethane)	µg/kg	700000	120 U	110 U	110 U	110 J	120 U	120 U	12000 U	120 U
Chloromethane (Methyl Chloride)	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
cis-1,2-Dichloroethene	µg/kg	1000000	120 U	110 U	110 U	83 J	120 U	120 U	12000 U	120 U
cis-1,3-Dichloropropene	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Cyclohexane	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Dibromochloromethane	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Ethylbenzene	µg/kg	780000	120 U	110 U	65 J	610	120 U	69 J	12000 U	120 U
Isopropylbenzene	µg/kg	NL	--	--	--	--	--	--	--	--
Methyl acetate	µg/kg	NL	160 J	110 UJ	80 J	130 J	170 J	91 J	12000 UJ	130 J

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH21</i>	<i>BH21</i>	<i>BH21</i>	<i>BH22</i>	<i>BH22</i>	<i>BH22</i>	<i>BH22</i>	<i>BH22</i>
		<i>sampledate</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>
		<i>Depth</i>	<i>9-11 ft BGS</i>	<i>11-13 ft BGS</i>	<i>13-13.3 ft BGS</i>	<i>2-4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	120 U	110 U	110 U	110 J	120 U	120 U	12000 U	120 U
Methyl Tert Butyl Ether	µg/kg	1000000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Methylene chloride	µg/kg	1000000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Styrene	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Tetrachloroethene	µg/kg	300000	130	110	300	8300	310	140	12000 U	120 U
Toluene	µg/kg	1000000	120 U	400	340	1900	210	670	20000	100 J
trans-1,2-Dichloroethene	µg/kg	1000000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
trans-1,3-Dichloropropene	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Trichloroethene	µg/kg	400000	120 U	140	130	620	120 U	110 J	12000 U	120 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Vinyl chloride	µg/kg	27000	120 U	110 U	110 U	120 U	120 U	120 U	12000 U	120 U
Xylene (total)	µg/kg	1000000	<u>100 J</u>	<u>63 J</u>	<u>320</u>	<u>8400</u>	<u>540</u>	<u>370</u>	<u>23000 U</u>	<u>230 U</u>
Total VOCs	µg/kg	>1000000	133890	160303	136835	1234513	117130	128880	1710000	17786
PID	ppm		240	60	23	292	153	197	2533	90

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH23</i>	<i>BH23</i>	<i>BH23</i>	<i>BH23</i>	<i>BH24</i>	<i>BH24</i>	<i>BH24</i>	<i>BH24</i>
		<i>sampledate</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>
		<i>Depth</i>	<i>8-9.8 ft BGS</i>	<i>10-11.2 ft BGS</i>	<i>12-12.4 ft BGS</i>	<i>13-14.3 ft BGS</i>	<i>6-6.4 ft BGS</i>	<i>8-8.9 ft BGS</i>	<i>10-10.7 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,1,2-Trichloroethane	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,1-Dichloroethane	µg/kg	480000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,1-Dichloroethene	µg/kg	1000000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,2,4-Trichlorobenzene	µg/kg	NL	1000	870	120	110 U	20000	27000	29000	17000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	130 UJ	120 UJ	120 UJ	110 UJ	2600 UJ	1300 U	6600 U	2200 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,2-Dichlorobenzene	µg/kg	1000000	780	940	250	110 U	27000	26000	26000	14000
1,2-Dichloroethane	µg/kg	60000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,2-Dichloropropane	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
1,3-Dichlorobenzene	µg/kg	560000	1100	1200	280	82 J	46000	40000	41000	22000
1,4-Dichlorobenzene	µg/kg	250000	960	1200	320	82 J	40000	38000	38000	21000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	650 U	610 U	600 U	550 U	13000 U	6500 U	33000 U	11000 U
2-Chlorotoluene	µg/kg	1000000	7500	7900	5100	940	210000	780000	340000	120000
2-Hexanone	µg/kg	NL	650 U	610 U	600 U	550 U	13000 UJ	6500 U	33000 U	11000 U
2-Nitropropane	µg/kg	--	650 UJ	610 UJ	600 UJ	550 UJ	13000 UJ	6500 UJ	33000 UJ	11000 UJ
3-Chlorotoluene	µg/kg	NL	130 U	120 U	120 U	110 U	2600 UJ	1300 UJ	6600 UJ	2200 UJ
4-Chlorotoluene	µg/kg	1000000	12000	23000	6500	560	45000	70000	65000	34000
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	650 U	610 U	600 U	550 U	13000 U	6500 U	33000 U	11000 U
Acetone	µg/kg	1000000	650 U	610 U	600 U	550 U	13000 UJ	6500 U	33000 U	11000 U
Benzene	µg/kg	89000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Bromodichloromethane	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Bromoform	µg/kg	NL	130 U	120 U	120 U	110 U	2600 UJ	1300 U	6600 U	2200 U
Bromomethane (Methyl Bromide)	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 UJ	6600 UJ	2200 UJ
Carbon disulfide	µg/kg	NL	130 UJ	120 UJ	120 UJ	110 UJ	2600 UJ	1300 UJ	6600 UJ	2200 UJ
Carbon tetrachloride	µg/kg	44000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Chlorobenzene	µg/kg	1000000	260	230	200	450	3000	7900	5600 J	3900
Chloroethane	µg/kg	NL	130 UJ	120 UJ	120 UJ	110 UJ	2600 U	1300 UJ	6600 UJ	2200 UJ
Chloroform (Trichloromethane)	µg/kg	700000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Chloromethane (Methyl Chloride)	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
cis-1,2-Dichloroethene	µg/kg	1000000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
cis-1,3-Dichloropropene	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Cyclohexane	µg/kg	NL	130 U	120 U	120 U	110 U	2600 UJ	1300 U	6600 U	2200 U
Dibromochloromethane	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Ethylbenzene	µg/kg	780000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Isopropylbenzene	µg/kg	NL	--	--	--	--	--	--	--	--
Methyl acetate	µg/kg	NL	130 UJ	360 J	120 UJ	190 J	2600 UJ	1300 UJ	6600 UJ	2200 UJ

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH23</i>	<i>BH23</i>	<i>BH23</i>	<i>BH23</i>	<i>BH24</i>	<i>BH24</i>	<i>BH24</i>	<i>BH24</i>
		<i>sampledate</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>
		<i>Depth</i>	<i>8-9.8 ft BGS</i>	<i>10-11.2 ft BGS</i>	<i>12-12.4 ft BGS</i>	<i>13-14.3 ft BGS</i>	<i>6-6.4 ft BGS</i>	<i>8-8.9 ft BGS</i>	<i>10-10.7 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
VOAs		SCO (1)								
Methyl cyclohexane	µg/kg	NL	130 U	120 U	120 U	110 U	2600 UJ	1300 U	6600 U	2200 U
Methyl Tert Butyl Ether	µg/kg	1000000	130 U	120 U	120 U	110 U	2600 UJ	1300 U	6600 U	2200 U
Methylene chloride	µg/kg	1000000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Styrene	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Tetrachloroethene	µg/kg	300000	130 U	120 U	120 U	450	3700	680 J	6600 U	2200 U
Toluene	µg/kg	1000000	130 U	120 U	120 U	680	2600 U	1800	6600 U	2200 U
trans-1,2-Dichloroethene	µg/kg	1000000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
trans-1,3-Dichloropropene	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Trichloroethene	µg/kg	400000	130 U	120 U	120 U	100 J	2600 U	1300 U	6600 U	2200 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Vinyl chloride	µg/kg	27000	130 U	120 U	120 U	110 U	2600 U	1300 U	6600 U	2200 U
Xylene (total)	µg/kg	1000000	<u>260 U</u>	<u>250 U</u>	<u>240 U</u>	<u>220 U</u>	<u>5200 U</u>	<u>2600 U</u>	<u>13000 U</u>	<u>4400 U</u>
Total VOCs	µg/kg	>1000000	23600	35700	12770	3534	394700	991380	544600	231900
PID	ppm		24	28	12	5.2	234	5395	4174	153

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

	<i>loc_name</i>	<i>BH24</i>	<i>BH25</i>	<i>BH25</i>	<i>BH25</i>	<i>BH26</i>	<i>BH26</i>	<i>BH26</i>	<i>BH26</i>	
	<i>sampledate</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	
	<i>Depth</i>	<i>14-14.4 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-15.2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,1,2-Trichloroethane	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,1-Dichloroethane	µg/kg	480000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,1-Dichloroethene	µg/kg	1000000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,2,4-Trichlorobenzene	µg/kg	NL	5900	760	3100000	120000	240 U	120 U	630 U	1300 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	2100 U	250 UJ	11000 U	1100 U	240 UJ	120 U	630 U	1300 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,2-Dichlorobenzene	µg/kg	1000000	7900	630	880000	48000	220 J	120 U	630 U	1300 U
1,2-Dichloroethane	µg/kg	60000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,2-Dichloropropane	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
1,3-Dichlorobenzene	µg/kg	560000	12000	300	500000	27000	240 U	120 U	630 U	1300 U
1,4-Dichlorobenzene	µg/kg	250000	12000	440	560000	29000	240 U	120 U	630 U	1300 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	10000 U	1300 U	56000 U	5400 U	1200 U	620 U	3100 U	6700 U
2-Chlorotoluene	µg/kg	1000000	99000	16000	140000	7200	21000	18000	72000	79000
2-Hexanone	µg/kg	NL	10000 U	1300 UJ	56000 U	5400 U	1200 U	620 U	3100 U	6700 U
2-Nitropropane	µg/kg	--	10000 UJ	1300 UJ	56000 U	5400 UJ	1200 UJ	620 UJ	3100 UJ	6700 UJ
3-Chlorotoluene	µg/kg	NL	2100 UJ	250 UJ	11000 U	1100 UJ	240 U	120 U	630 U	1300 U
4-Chlorotoluene	µg/kg	1000000	21000	4400	680000	31000	4900	4100	31000	46000
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	10000 U	1300 U	56000 U	5400 U	1200 U	620 U	3100 U	6700 U
Acetone	µg/kg	1000000	10000 U	1300 UJ	56000 U	5400 U	1200 U	1800	3100 U	6700 U
Benzene	µg/kg	89000	3200	250 U	33000	1100 U	240 U	120 U	630 U	1300 U
Bromodichloromethane	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Bromoform	µg/kg	NL	2100 U	250 UJ	11000 U	1100 U	240 U	120 U	630 U	1300 U
Bromomethane (Methyl Bromide)	µg/kg	NL	2100 UJ	250 U	11000 U	1100 UJ	240 U	120 U	630 U	1300 U
Carbon disulfide	µg/kg	NL	2100 UJ	250 UJ	11000 UJ	1100 UJ	240 U	120 UJ	630 UJ	1300 UJ
Carbon tetrachloride	µg/kg	44000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Chlorobenzene	µg/kg	1000000	4900	800	76000	2500	240 U	120 U	630 U	1300 U
Chloroethane	µg/kg	NL	2100 UJ	250 U	11000 U	1100 UJ	240 U	120 U	630 U	1300 U
Chloroform (Trichloromethane)	µg/kg	700000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Chloromethane (Methyl Chloride)	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
cis-1,2-Dichloroethene	µg/kg	1000000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
cis-1,3-Dichloropropene	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Cyclohexane	µg/kg	NL	2100 U	250 UJ	11000 U	1100 U	240 U	120 U	630 U	1300 U
Dibromochloromethane	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Ethylbenzene	µg/kg	780000	2100 U	250 U	11000 U	1100 U	250	130	510 J	1000 J
Isopropylbenzene	µg/kg	NL	--	--	--	--	--	--	--	--
Methyl acetate	µg/kg	NL	2100 UJ	250 UJ	11000 UJ	1100 UJ	240 U	120 UJ	630 UJ	1300 UJ

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH24</i>	<i>BH25</i>	<i>BH25</i>	<i>BH25</i>	<i>BH26</i>	<i>BH26</i>	<i>BH26</i>	<i>BH26</i>
		<i>sampledate</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>	<i>4/13/2010</i>
		<i>Depth</i>	<i>14-14.4 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-15.2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	2100 U	250 UJ	11000 U	1100 U	240 U	120 U	630 U	1300 U
Methyl Tert Butyl Ether	µg/kg	1000000	2100 U	250 UJ	11000 U	1100 U	240 U	120 U	630 U	1300 U
Methylene chloride	µg/kg	1000000	2100 U	250 U	11000 U	1100 U	240 U	200	540 J	2100
Styrene	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Tetrachloroethene	µg/kg	300000	2100 U	250 U	11000 U	1100 U	19000	19000	69000	130000
Toluene	µg/kg	1000000	1400 J	250 U	31000	630 J	170 J	230	1200	5600
trans-1,2-Dichloroethene	µg/kg	1000000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
trans-1,3-Dichloropropene	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Trichloroethene	µg/kg	400000	2100 U	250 U	11000 U	1100 U	280	780	3600	18000
Trichlorofluoromethane (CFC-11)	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Vinyl chloride	µg/kg	27000	2100 U	250 U	11000 U	1100 U	240 U	120 U	630 U	1300 U
Xylene (total)	µg/kg	1000000	<u>4200 U</u>	<u>510 U</u>	<u>22000 U</u>	<u>2200 U</u>	<u>1500</u>	<u>720</u>	<u>2600</u>	<u>4300</u>
Total VOCs	µg/kg	>1000000	167300	23330	600000	265330	47320	44960	180450	286000
PID	ppm		64	8.8	113	133	110	348	1310	121

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

		<i>loc_name</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH28</i>	<i>BH28</i>
		<i>sampledate</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>
		<i>Depth</i>	<i>5-7 ft BGS</i>	<i>7-9 ft BGS</i>	<i>9-11 ft BGS</i>	<i>11-13 ft BGS</i>	<i>13-15 ft BGS</i>	<i>15-16.7 ft BGS</i>	<i>8-8.4 ft BGS</i>	<i>10-12 ft BGS</i>
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	98 J	140	96 J	200	150	99 U	280 U	250 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
1,1,2-Trichloroethane	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
1,1-Dichloroethane	µg/kg	480000	110 U	70 J	130 U	200	150	99 U	280 U	250 U
1,1-Dichloroethene	µg/kg	1000000	110 U	120 U	130 U	120 U	66 J	99 U	280 U	250 U
1,2,4-Trichlorobenzene	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	3600	1700
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	110 UJ	120 UJ	130 UJ	120 UJ	100 UJ	99 UJ	280 U	250 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
1,2-Dichlorobenzene	µg/kg	1000000	110 U	120 U	70 J	92 J	100 U	590	76000	140000
1,2-Dichloroethane	µg/kg	60000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
1,2-Dichloropropane	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
1,3-Dichlorobenzene	µg/kg	560000	110 U	120 U	76 J	140	100 U	670	1300	3300
1,4-Dichlorobenzene	µg/kg	250000	110 U	120 U	86 J	150	100 U	600	10000	30000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	570 U	590 U	630 U	610 U	520 U	490 U	1400 U	1300 U
2-Chlorotoluene	µg/kg	1000000	8700	19000	82000	210000	1100	14000	1100	450
2-Hexanone	µg/kg	NL	570 U	590 U	630 U	610 U	520 U	490 U	1400 U	1300 U
2-Nitropropane	µg/kg	--	570 UJ	590 UJ	630 UJ	610 UJ	520 UJ	490 UJ	1400 U	1300 U
3-Chlorotoluene	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
4-Chlorotoluene	µg/kg	1000000	3400	5300	36000	83000	460	5500	750	230 J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	570 U	590 U	630 U	610 U	520 U	490 U	1400 U	1300 U
Acetone	µg/kg	1000000	570 U	590 U	630 U	610 U	520 U	490 U	1400 U	1300 U
Benzene	µg/kg	89000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Bromodichloromethane	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Bromoform	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 UJ	250 UJ
Bromomethane (Methyl Bromide)	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Carbon disulfide	µg/kg	NL	110 UJ	120 UJ	130 UJ	120 UJ	100 UJ	99 UJ	280 UJ	250 UJ
Carbon tetrachloride	µg/kg	44000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Chlorobenzene	µg/kg	1000000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	310
Chloroethane	µg/kg	NL	110 UJ	120 UJ	130 UJ	120 UJ	100 UJ	99 UJ	280 U	250 U
Chloroform (Trichloromethane)	µg/kg	700000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Chloromethane (Methyl Chloride)	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
cis-1,2-Dichloroethene	µg/kg	1000000	190	380	260	440	100 U	99 U	280 U	250 U
cis-1,3-Dichloropropene	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Cyclohexane	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Dibromochloromethane	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Ethylbenzene	µg/kg	780000	120	180	270	690	100 U	99 U	280 U	250 U
Isopropylbenzene	µg/kg	NL	--	--	--	--	--	--	--	--
Methyl acetate	µg/kg	NL	110 UJ	120 UJ	130 UJ	120 UJ	100 UJ	99 UJ	280 U	250 U

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH27</i>	<i>BH28</i>	<i>BH28</i>
		<i>sampledate</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/12/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>
		<i>Depth</i>	<i>5-7 ft BGS</i>	<i>7-9 ft BGS</i>	<i>9-11 ft BGS</i>	<i>11-13 ft BGS</i>	<i>13-15 ft BGS</i>	<i>15-16.7 ft BGS</i>	<i>8-8.4 ft BGS</i>	<i>10-12 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
VOAs		SCO (1)								
Methyl cyclohexane	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Methyl Tert Butyl Ether	µg/kg	1000000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Methylene chloride	µg/kg	1000000	110 U	120 U	97 J	150	65 J	99 U	280 U	250 U
Styrene	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Tetrachloroethene	µg/kg	300000	6800	9400	11000	25000	190	580	340	5200
Toluene	µg/kg	1000000	190	350	500	1800	1200	99 U	280 U	250 U
trans-1,2-Dichloroethene	µg/kg	1000000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
trans-1,3-Dichloropropene	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Trichloroethene	µg/kg	400000	940	1800	2300	9600	14000	330	140 J	910
Trichlorofluoromethane (CFC-11)	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Vinyl chloride	µg/kg	27000	110 U	120 U	130 U	120 U	100 U	99 U	280 U	250 U
Xylene (total)	µg/kg	1000000	<u>420</u>	<u>650</u>	<u>950</u>	<u>2200</u>	<u>210 U</u>	<u>200 U</u>	<u>560 U</u>	<u>510 U</u>
Total VOCs	µg/kg	>1000000	20858	37270	133705	333662	17381	22270	93230	182100
PID	ppm		11	25	228	29	6.5	--	33	160

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

		<i>loc_name</i>	<i>BH28</i>	<i>BH28</i>	<i>BH29</i>	<i>BH29</i>	<i>BH29</i>	<i>BH29</i>	<i>BH29</i>	<i>BH30</i>
		<i>sampledate</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/15/2010</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>14-15.5 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-8.4 ft BGS</i>	<i>8.4-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>6-6.9 ft BGS</i>
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	11000	110 U	120 U	9600 U	650 U	600 U	110 U	160 J
1,1,2,2-Tetrachloroethane	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
1,1,2-Trichloroethane	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
1,1-Dichloroethane	µg/kg	480000	590	1300	120 U	9600 U	650 U	600 U	110 U	230 U
1,1-Dichloroethene	µg/kg	1000000	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
1,2,4-Trichlorobenzene	µg/kg	NL	11000	63 J	1400	850000	25000	28000	3900	12000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	250 U	110 U	120 UJ	9600 U	650 UJ	600 UJ	110 UJ	230 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
1,2-Dichlorobenzene	µg/kg	1000000	2400000	480	8900	580000	19000	43000	23000	14000
1,2-Dichloroethane	µg/kg	60000	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
1,2-Dichloropropane	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
1,3-Dichlorobenzene	µg/kg	560000	29000	110 U	2300	130000	3800	6000	2400	7000
1,4-Dichlorobenzene	µg/kg	250000	480000	140	3900	250000	7600	14000	5900	10000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	1200 U	550 U	590 U	48000 U	3200 U	3000 U	570 U	1100 U
2-Chlorotoluene	µg/kg	1000000	1000	110 U	200	8600 J	350 J	970	480	7200
2-Hexanone	µg/kg	NL	1200 U	550 U	590 U	48000 U	3200 UJ	3000 UJ	570 UJ	1100 U
2-Nitropropane	µg/kg	--	1200 U	550 U	590 U	48000 UJ	3200 UJ	3000 UJ	570 UJ	1100 U
3-Chlorotoluene	µg/kg	NL	250 U	110 U	120 U	9600 UJ	650 UJ	600 UJ	110 UJ	230 U
4-Chlorotoluene	µg/kg	1000000	620	110 U	120	6000 J	650 U	3200	1600	3400
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	1200 U	550 U	590 U	48000 U	3200 U	3000 U	570 U	1100 U
Acetone	µg/kg	1000000	2100	550 U	590 U	48000 U	3200 UJ	3000 UJ	570 UJ	1100 U
Benzene	µg/kg	89000	280	110 U	120 U	9600 U	650 U	920	74 J	200 J
Bromodichloromethane	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Bromoform	µg/kg	NL	250 UJ	110 U	120 U	9600 U	650 UJ	600 UJ	110 UJ	230 U
Bromomethane (Methyl Bromide)	µg/kg	NL	250 U	110 U	120 U	9600 UJ	650 U	600 U	110 U	230 U
Carbon disulfide	µg/kg	NL	250 UJ	110 UJ	120 U	9600 UJ	650 UJ	600 UJ	110 UJ	230 UJ
Carbon tetrachloride	µg/kg	44000	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Chlorobenzene	µg/kg	1000000	3100	110 U	380	18000	500 J	1800	630	890
Chloroethane	µg/kg	NL	250 U	110 U	120 UJ	9600 UJ	650 U	600 U	110 U	230 U
Chloroform (Trichloromethane)	µg/kg	700000	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Chloromethane (Methyl Chloride)	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
cis-1,2-Dichloroethene	µg/kg	1000000	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
cis-1,3-Dichloropropene	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Cyclohexane	µg/kg	NL	250 U	110 U	120 U	9600 U	650 UJ	600 UJ	110 UJ	230 U
Dibromochloromethane	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Ethylbenzene	µg/kg	780000	130 J	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Isopropylbenzene	µg/kg	NL	--	--	--	--	--	--	--	--
Methyl acetate	µg/kg	NL	220 J	100 J	190 J	9600 UJ	650 UJ	600 UJ	240 J	460 J

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH28</i>	<i>BH28</i>	<i>BH29</i>	<i>BH29</i>	<i>BH29</i>	<i>BH29</i>	<i>BH29</i>	<i>BH30</i>
		<i>sampledate</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/14/2010</i>	<i>4/15/2010</i>
		<i>Depth</i>	<i>12-14 ft BGS</i>	<i>14-15.5 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-8.4 ft BGS</i>	<i>8.4-10 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>6-6.9 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
		<i>SCO (1)</i>								
VOAs										
Methyl cyclohexane	µg/kg	NL	250 U	110 U	120 U	9600 U	650 UJ	600 UJ	110 UJ	230 U
Methyl Tert Butyl Ether	µg/kg	1000000	250 U	110 U	120 U	9600 U	650 UJ	600 UJ	110 UJ	230 U
Methylene chloride	µg/kg	1000000	400	770	120 U	9600 U	650 U	600 U	110 U	230 U
Styrene	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Tetrachloroethene	µg/kg	300000	180000	110 U	120 U	37000	480 J	1300	810	1600
Toluene	µg/kg	1000000	1500	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
trans-1,2-Dichloroethene	µg/kg	1000000	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
trans-1,3-Dichloropropene	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Trichloroethene	µg/kg	400000	75000	210	120 U	9600 U	650 U	700	120	130 J
Trichlorofluoromethane (CFC-11)	µg/kg	NL	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	420	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Vinyl chloride	µg/kg	27000	250 U	110 U	120 U	9600 U	650 U	600 U	110 U	230 U
Xylene (total)	µg/kg	1000000	<u>600</u>	<u>220 U</u>	<u>230 U</u>	<u>19000 U</u>	<u>1300 U</u>	<u>1200 U</u>	<u>230 U</u>	<u>130 J</u>
Total VOCs	µg/kg	>1000000	3196960	3063	17390	1879600	56730	99890	39154	57170
PID	ppm		239	8.3	5.1	842	107	41	20	1357

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH30</i>	<i>BH30</i>	<i>BH30</i>	<i>BH30</i>	<i>BH31</i>	<i>BH31</i>	<i>BH31</i>	<i>BH31</i>
		<i>sampledate</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>
		<i>Depth</i>	<i>8-8.8 ft BGS</i>	<i>10-10.9 ft BGS</i>	<i>12-12.9 ft BGS</i>	<i>14-15.4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-9.2 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>NYSDEC</i>									
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	250 U	260 U	260 U	520	320 U	480 U	270 U	210 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,1,2-Trichloroethane	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,1-Dichloroethane	µg/kg	480000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,1-Dichloroethene	µg/kg	1000000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,2,4-Trichlorobenzene	µg/kg	NL	10000	12000	5600	7400	1300000	11000000	3400000	30000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,2-Dichlorobenzene	µg/kg	1000000	5800	15000	9500	21000	1200000	15000000	7300000	54000
1,2-Dichloroethane	µg/kg	60000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,2-Dichloropropane	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
1,3-Dichlorobenzene	µg/kg	560000	5800	15000	8700	25000	240000	2300000	720000	18000
1,4-Dichlorobenzene	µg/kg	250000	5300	15000	10000	25000	380000	4600000	1900000	32000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	1300 U	1300 U	1300 U	1100 U	10000	91000	530000 U	1100 U
2-Chlorotoluene	µg/kg	1000000	15000	75000	25000	150000	97000	820000	450000	2600
2-Hexanone	µg/kg	NL	1300 U	1300 U	1300 U	1100 U	1600 U	2400 U	1300 U	1100 U
2-Nitropropane	µg/kg	--	1300 U	1300 U	1300 U	1100 U	1600 U	2400 U	1300 U	1100 U
3-Chlorotoluene	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
4-Chlorotoluene	µg/kg	1000000	6700	20000	11000	46000	300000	4400000	2700000	10000
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	1300 U	1300 U	1300 U	1100 U	2200	49000	56000	1100 U
Acetone	µg/kg	1000000	1300 U	1300 U	1300 U	1100 U	1600 U	4100	3900	1100 U
Benzene	µg/kg	89000	250 U	260 U	200 J	210 U	430000	4500000	2800000	2700
Bromodichloromethane	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Bromoform	µg/kg	NL	250 U	260 UJ	260 UJ	210 UJ	320 UJ	480 UJ	270 UJ	210 U
Bromomethane (Methyl Bromide)	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Carbon disulfide	µg/kg	NL	250 UJ	260 UJ	260 UJ	210 UJ	320 UJ	480 UJ	270 UJ	210 UJ
Carbon tetrachloride	µg/kg	44000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Chlorobenzene	µg/kg	1000000	160 J	380	2600	16000	110000	950000	380000	3900
Chloroethane	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Chloroform (Trichloromethane)	µg/kg	700000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Chloromethane (Methyl Chloride)	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
cis-1,2-Dichloroethene	µg/kg	1000000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
cis-1,3-Dichloropropene	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Cyclohexane	µg/kg	NL	250 U	260 U	260 U	180 J	800	5200	4000	210 U
Dibromochloromethane	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Ethylbenzene	µg/kg	780000	250 U	260 U	260 U	110 J	980	6600	4800	210 U
Isopropylbenzene	µg/kg	NL	--	--	--	--	--	--	--	--
Methyl acetate	µg/kg	NL	310 J	260 U	260 U	210 U	320 U	480 U	270 U	150 J

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH30</i>	<i>BH30</i>	<i>BH30</i>	<i>BH30</i>	<i>BH31</i>	<i>BH31</i>	<i>BH31</i>	<i>BH31</i>
		<i>sampledate</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>	<i>4/15/2010</i>
		<i>Depth</i>	<i>8-8.8 ft BGS</i>	<i>10-10.9 ft BGS</i>	<i>12-12.9 ft BGS</i>	<i>14-15.4 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-8 ft BGS</i>	<i>8-9.2 ft BGS</i>	<i>12-14 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>								
VOAs		SCO (1)								
Methyl cyclohexane	µg/kg	NL	250 U	260 U	260 U	490	1700	17000	14000	210 U
Methyl Tert Butyl Ether	µg/kg	1000000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Methylene chloride	µg/kg	1000000	250 U	260 U	260 U	210 U	320 U	360 J	270 U	210 U
Styrene	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Tetrachloroethene	µg/kg	300000	1200	2000	2800	18000	4100	26000	8800	210 U
Toluene	µg/kg	1000000	250 U	260 U	130 J	980	74000	600000	290000	710
trans-1,2-Dichloroethene	µg/kg	1000000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
trans-1,3-Dichloropropene	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Trichloroethene	µg/kg	400000	140 J	260 U	300	1400	1200	8800	3000	210 U
Trichlorofluoromethane (CFC-11)	µg/kg	NL	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Trifluorotrichloroethane (Freon 113)	µg/kg	NL	250 U	260 U	260 U	420	320 U	480 U	270 U	210 U
Vinyl chloride	µg/kg	27000	250 U	260 U	260 U	210 U	320 U	480 U	270 U	210 U
Xylene (total)	µg/kg	1000000	<u>510 U</u>	<u>520 U</u>	<u>530 U</u>	<u>410 J</u>	<u>4400</u>	<u>30000</u>	<u>20000</u>	<u>420 U</u>
Total VOCs	µg/kg	>1000000	50410	154380	75830	312910	4156380	44408060	20054500	154060
PID	ppm		114	161	210	127	174	1379	7081	183

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

	<i>loc_name</i>	<i>BH31</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH33</i>	<i>BH33</i>
	<i>sampledate</i>	<i>4/15/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>
	<i>Depth</i>	<i>14-15.2 ft BGS</i>	<i>0-2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-7.2 ft BGS</i>
	<i>NYSDEC</i>									
VOAs	<i>Units</i>	<i>SCO (1)</i>								
1,1,1-Trichloroethane	µg/kg	1000000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
1,1,2,2-Tetrachloroethane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 UJ
1,1,2-Trichloroethane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
1,1-Dichloroethane	µg/kg	480000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
1,1-Dichloroethene	µg/kg	1000000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
1,2,4-Trichlorobenzene	µg/kg	NL	110000	30000	62000	100000	70000	26000	30000	1300
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 UJ	430 UJ	450 UJ	120 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
1,2-Dichlorobenzene	µg/kg	1000000	110000	26000	63000	180000	79000	11000	29000	900
1,2-Dichloroethane	µg/kg	60000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
1,2-Dichloropropane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
1,3-Dichlorobenzene	µg/kg	560000	28000	8600	16000	59000	27000	3100	8800	280
1,4-Dichlorobenzene	µg/kg	250000	52000	15000	30000	110000	50000	5400	16000	520
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	2700 U	1300 U	1300 U	11000 U	5600 U	2200 U	2300 U	600 U
2-Chlorotoluene	µg/kg	1000000	6000	2500	4000	13000	7800	630	2700	94 J
2-Hexanone	µg/kg	NL	2700 U	1300 U	1300 U	11000 U	5600 U	2200 U	2300 U	600 UJ
2-Nitropropane	µg/kg	--	2700 U	1300 U	1300 U	11000 U	5600 U	2200 U	2300 U	600 UJ
3-Chlorotoluene	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 UJ
4-Chlorotoluene	µg/kg	1000000	25000	150 J	240 J	2200 U	1100 U	430 U	570	1300
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	2700 U	1300 U	1300 U	11000 U	5600 U	2200 U	2300 U	600 U
Acetone	µg/kg	1000000	2700 U	1300 U	1300 U	11000 U	5600 U	2200 U	2300 U	600 UJ
Benzene	µg/kg	89000	7400	230 J	260 U	2200 U	620 J	240 J	450 U	120 U
Bromodichloromethane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Bromoform	µg/kg	NL	540 U	260 UJ	260 UJ	2200 U	1100 U	430 U	450 U	120 UJ
Bromomethane (Methyl Bromide)	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Carbon disulfide	µg/kg	NL	540 UJ	260 UJ	260 UJ	2200 UJ	1100 U	430 U	450 U	120 UJ
Carbon tetrachloride	µg/kg	44000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Chlorobenzene	µg/kg	1000000	5900	470	350	3900	2100	430 U	250 J	120 U
Chloroethane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 UJ	430 UJ	450 UJ	120 U
Chloroform (Trichloromethane)	µg/kg	700000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Chloromethane (Methyl Chloride)	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
cis-1,2-Dichloroethene	µg/kg	1000000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
cis-1,3-Dichloropropene	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Cyclohexane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 UJ
Dibromochloromethane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Ethylbenzene	µg/kg	780000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U
Isopropylbenzene	µg/kg	NL	--	--	--	--	--	--	--	--
Methyl acetate	µg/kg	NL	460 J	220 J	260 U	2200 UJ	1100 UJ	430 UJ	450 UJ	120 UJ

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH31</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH32</i>	<i>BH33</i>	<i>BH33</i>
		<i>sampledate</i>	<i>4/15/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>
		<i>Depth</i>	<i>14-15.2 ft BGS</i>	<i>0-2 ft BGS</i>	<i>6-8 ft BGS</i>	<i>10-12 ft BGS</i>	<i>12-14 ft BGS</i>	<i>14-16 ft BGS</i>	<i>14-16 ft BGS</i>	<i>4-6 ft BGS</i>	<i>6-7.2 ft BGS</i>
	<i>Units</i>	<i>NYSDEC</i>									
		<i>SCO (1)</i>									
VOAs											
Methyl cyclohexane	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Methyl Tert Butyl Ether	µg/kg	1000000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Methylene chloride	µg/kg	1000000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Styrene	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Tetrachloroethene	µg/kg	300000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	160	160
Toluene	µg/kg	1000000	1600	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
trans-1,2-Dichloroethene	µg/kg	1000000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
trans-1,3-Dichloropropene	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Trichloroethene	µg/kg	400000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	150	150
Trichlorofluoromethane (CFC-11)	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Vinyl chloride	µg/kg	27000	540 U	260 U	260 U	2200 U	1100 U	430 U	450 U	120 U	120 U
Xylene (total)	µg/kg	1000000	<u>1100 U</u>	<u>520 U</u>	<u>510 U</u>	<u>4300 U</u>	<u>2300 U</u>	<u>870 U</u>	<u>900 U</u>	<u>240 U</u>	<u>240 U</u>
Total VOCs	µg/kg	>1000000	346360	83170	175590	465900	236520	46370	87320	4704	4704
PID	ppm		115	182	117	230	140	125	--	--	--

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

	<i>loc_name</i>	<i>BH33</i>	<i>BH33</i>	<i>BH33</i>	<i>Soilpile</i>	<i>Soilpile</i>	<i>Soilpile</i>	<i>Soilpile</i>	<i>GP-01-01</i>	<i>GP-01-02</i>	<i>GP-01-03</i>	
	<i>sampledate</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>11/4/2008</i>	<i>11/4/2008</i>	<i>12/22/2008</i>	<i>12/22/2008</i>	<i>10/26/01</i>	<i>10/26/01</i>	<i>10/29/01</i>	
	<i>Depth</i>	<i>9-10.2 ft BGS</i>	<i>12-12.7 ft BGS</i>	<i>14-16 ft BGS</i>	--	--	--	--	<i>9-11</i>	<i>11-13</i>	<i>12-13</i>	
						<i>(Duplicate)</i>		<i>(Duplicate)</i>				
	<i>NYSDEC</i>											
VOAs	<i>Units</i>	<i>SCO (1)</i>										
1,1,1-Trichloroethane	µg/kg	1000000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	16	ND	6
1,1,2,2-Tetrachloroethane	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
1,1,2-Trichloroethane	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
1,1-Dichloroethane	µg/kg	480000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	ND	ND	37
1,1-Dichloroethene	µg/kg	1000000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	ND	ND	5
1,2,4-Trichlorobenzene	µg/kg	NL	8800	1100000	9300	34000	17000	2400 E	52000	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	140 UJ	12000 U	1100 UJ	2900 U	1200 U	11 U	5700 U	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
1,2-Dichlorobenzene	µg/kg	1000000	8300	750000	5900	56000	21000	3600 E	78000	3	2	2
1,2-Dichloroethane	µg/kg	60000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
1,2-Dichloropropane	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
1,3-Dichlorobenzene	µg/kg	560000	3200	210000	1800	88000	33000	4700 E	120000	2	ND	ND
1,4-Dichlorobenzene	µg/kg	250000	4400	310000	2900	75000	29000	3900 E	110000	2	ND	ND
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	700 U	61000 U	5400 U	2900 U	1200 U	11 U	5700 U	ND	ND	ND
2-Chlorotoluene	µg/kg	1000000	2300	150000	1300	55000	27000	7000 E	110000	ND	ND	ND
2-Hexanone	µg/kg	NL	700 UJ	61000 U	5400 UJ	2900 U	1200 U	11 U	5700 U	--	--	--
2-Nitropropane	µg/kg	--	700 UJ	61000 U	5400 UJ	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	140 UJ	12000 U	1100 UJ	2900 U	1200 U	11 U	5700 U	--	--	--
4-Chlorotoluene	µg/kg	1000000	480	19000	1100 U	64000	33000	7000 E	130000	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	700 U	61000 U	5400 U	2900 U	1200 U	11 U	5700 U	ND	ND	ND
Acetone	µg/kg	1000000	700 UJ	61000 U	5400 UJ	2900 UJ	1200 UJ	14	14	ND	8	ND
Benzene	µg/kg	89000	140 U	12000 U	1100 U	2900 U	1200 U	18	18	ND	ND	12
Bromodichloromethane	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	ND	ND	0
Bromoform	µg/kg	NL	140 UJ	12000 U	1100 UJ	2900 U	1200 U	11 U	5700 U	82	ND	ND
Bromomethane (Methyl Bromide)	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
Carbon disulfide	µg/kg	NL	140 UJ	12000 UJ	1100 UJ	2900 U	1200 U	1 J	1 J	ND	ND	2
Carbon tetrachloride	µg/kg	44000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	18	ND	ND
Chlorobenzene	µg/kg	1000000	200	16000	950 J	11000	3900	1700E	21000	4	3	2
Chloroethane	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	ND	ND	12
Chloroform (Trichloromethane)	µg/kg	700000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	39	ND	20
Chloromethane (Methyl Chloride)	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
cis-1,2-Dichloroethene	µg/kg	1000000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	90	4	91
cis-1,3-Dichloropropene	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
Cyclohexane	µg/kg	NL	140 UJ	12000 U	1100 UJ	2900 U	1200 U	1 J	5700 U	--	--	--
Dibromochloromethane	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	12	ND	ND
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
Ethylbenzene	µg/kg	780000	140 U	12000 U	1100 U	2900 U	1200 U	6 J	5700 U	ND	ND	ND
Isopropylbenzene	µg/kg	NL	--	--	--	2900 U	370 J	110	5700 U	9	ND	ND
Methyl acetate	µg/kg	NL	140 UJ	12000 UJ	1100 UJ	2900 U	330 J	11 U	5700 U	--	--	--

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

	<i>loc_name</i>	<i>BH33</i>	<i>BH33</i>	<i>BH33</i>	<i>Soilpile</i>	<i>Soilpile</i>	<i>Soilpile</i>	<i>Soilpile</i>	<i>GP-01-01</i>	<i>GP-01-02</i>	<i>GP-01-03</i>	
	<i>sampledate</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>4/16/2010</i>	<i>11/4/2008</i>	<i>11/4/2008</i>	<i>12/22/2008</i>	<i>12/22/2008</i>	<i>10/26/01</i>	<i>10/26/01</i>	<i>10/29/01</i>	
	<i>Depth</i>	<i>9-10.2 ft BGS</i>	<i>12-12.7 ft BGS</i>	<i>14-16 ft BGS</i>	--	--	--	--	<i>9-11</i>	<i>11-13</i>	<i>12-13</i>	
						<i>(Duplicate)</i>		<i>(Duplicate)</i>				
	<i>Units</i>	<i>NYSDEC</i>										
		<i>SCO (1)</i>										
VOAs												
Methyl cyclohexane	µg/kg	NL	140 UJ	12000 U	1100 UJ	2900 U	1200 U	5 J	5700 U	ND	ND	ND
Methyl Tert Butyl Ether	µg/kg	1000000	140 UJ	12000 U	1100 UJ	2900 U	1200 U	11 U	5700 U	--	--	--
Methylene chloride	µg/kg	1000000	140 U	12000 U	1100 U	2900 U	1200 U	10 J	5700 U	ND	ND	ND
Styrene	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
Tetrachloroethene	µg/kg	300000	800	32000	1100 U	2900 U	1200 U	18	5700 U	810	ND	ND
Toluene	µg/kg	1000000	140 U	12000 U	1100 U	650 J	260 J	270 E	1600 J	ND	ND	3
trans-1,2-Dichloroethene	µg/kg	1000000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	ND	ND	6
trans-1,3-Dichloropropene	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
Trichloroethene	µg/kg	400000	120 J	12000 U	1900	2900 U	1200 U	11 U	5700 U	99	4	17
Trichlorofluoromethane (CFC-11)	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
Trifluorotrichloroethane (Freon 113)	µg/kg	NL	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	--	--	--
Vinyl chloride	µg/kg	27000	140 U	12000 U	1100 U	2900 U	1200 U	11 U	5700 U	2	ND	ND
Xylene (total)	µg/kg	1000000	<u>280 U</u>	<u>24000 U</u>	<u>2100 U</u>	<u>2900 U</u>	<u>1200 U</u>	<u>37</u>	5700 U	<u>2</u>	<u>ND</u>	<u>3</u>
Total VOCs	µg/kg	>1000000	28600	2587000	24050	383650	164860	30790	622633	1190	21	218
PID	ppm		38	6445	27	--	--			--	--	--

Notes:

 Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

 Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

			<i>loc_name</i>	<i>GP-01-04</i>	<i>GP-01-05</i>	<i>GP-01-06</i>	<i>GP-01-07</i>	<i>GP-01-08</i>	<i>PZ-01-01</i>	<i>PZ-01-02</i>	<i>PZ-01-03</i>	<i>PZ-01-04</i>	<i>PZ-01-05</i>	<i>PZ-01-05/D</i>	<i>PZ-01-06</i>
			<i>sampledate</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/26/01</i>	<i>10/26/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>
			<i>Depth</i>	<i>12-13.5</i>	<i>4-5.5</i>	<i>11-12.5</i>	<i>14-16</i>	<i>12-14</i>	<i>12-14</i>	<i>2.5-4</i>	<i>4-5.5</i>	<i>8-10</i>	<i>11-13</i>	<i>11-13</i>	<i>11-13</i>
	<i>Units</i>	<i>NYSDEC SCO (1)</i>													
VOAs															
1,1,1-Trichloroethane	µg/kg	1000000		2	ND	3	ND	ND	ND	ND	ND	ND	30000	510000	ND
1,1,2,2-Tetrachloroethane	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/kg	480000		4	ND	ND	ND	ND	6	3	ND	ND	3000	45000	ND
1,1-Dichloroethene	µg/kg	1000000		ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	µg/kg	NL		4	2	ND	ND	18000	8	ND	ND	ND	5300	ND	42000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/kg	1000000		8	ND	ND	ND	450000	640	ND	ND	ND	2800	ND	79000
1,2-Dichloroethane	µg/kg	60000		--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/kg	560000		9	ND	ND	ND	71000	980	ND	ND	ND	1900	ND	89000
1,4-Dichlorobenzene	µg/kg	250000		9	ND	ND	ND	220000	700	ND	ND	ND	1900	ND	87000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000		ND	9	ND	ND	ND	ND	19	ND	ND	ND	ND	ND
2-Chlorotoluene	µg/kg	1000000		ND	ND	ND	ND	ND	ND	ND	ND	ND	2700	2700	240000
2-Hexanone	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
2-Nitropropane	µg/kg	--		--	--	--	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	µg/kg	1000000		--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6500	ND
Acetone	µg/kg	1000000		ND	47	ND	ND	ND	ND	84	33	ND	ND	48000	ND
Benzene	µg/kg	89000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1100
Bromodichloromethane	µg/kg	NL		ND	ND	ND	ND	ND	36	ND	ND	ND	ND	ND	ND
Bromoform	µg/kg	NL		ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Bromomethane (Methyl Bromide)	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/kg	NL		ND	5	ND	ND	ND	ND	ND	7	ND	ND	ND	ND
Carbon tetrachloride	µg/kg	44000		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/kg	1000000		270	ND	28	ND	6600	3	ND	ND	ND	ND	ND	24000
Chloroethane	µg/kg	NL		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5300	ND
Chloroform (Trichloromethane)	µg/kg	700000		35	160	52	4	ND	960	ND	4	ND	ND	ND	ND
Chloromethane (Methyl Chloride)	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/kg	1000000		5	ND	7	5	ND	65	ND	2	24000	3100	19000	ND
cis-1,3-Dichloropropene	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/kg	NL		ND	ND	ND	ND	ND	23	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (CFC-12)	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/kg	780000		ND	ND	ND	ND	ND	ND	210	ND	ND	ND	7300	ND
Isopropylbenzene	µg/kg	NL		ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND
Methyl acetate	µg/kg	NL		--	--	--	--	--	--	--	--	--	--	--	--

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

			<i>loc_name</i>	<i>GP-01-04</i>	<i>GP-01-05</i>	<i>GP-01-06</i>	<i>GP-01-07</i>	<i>GP-01-08</i>	<i>PZ-01-01</i>	<i>PZ-01-02</i>	<i>PZ-01-03</i>	<i>PZ-01-04</i>	<i>PZ-01-05</i>	<i>PZ-01-05/D</i>	<i>PZ-01-06</i>
			<i>sampledate</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/26/01</i>	<i>10/26/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>	<i>10/29/01</i>
			<i>Depth</i>	<i>12-13.5</i>	<i>4-5.5</i>	<i>11-12.5</i>	<i>14-16</i>	<i>12-14</i>	<i>12-14</i>	<i>2.5-4</i>	<i>4-5.5</i>	<i>8-10</i>	<i>11-13</i>	<i>11-13</i>	<i>11-13</i>
	<i>Units</i>	<i>NYSDEC SCO (1)</i>													
VOAs															
Methyl cyclohexane	µg/kg	NL	ND	5	4	1	ND	ND	3	2	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	µg/kg	1000000	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/kg	1000000	ND	21	3	ND	ND	3	ND	ND	ND	ND	3400	ND	ND
Styrene	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	µg/kg	300000	ND	58	520	24	ND	560	ND	ND	6600	1300000	2700000	ND	ND
Toluene	µg/kg	1000000	14	4	24	1	ND	ND	6	2	ND	2700	56000	1200	ND
trans-1,2-Dichloroethene	µg/kg	1000000	2	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	µg/kg	400000	17	12	130	2	ND	160	2	ND	47000	64000	150000	ND	ND
Trichlorofluoromethane (CFC-11)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--	--	--
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/kg	27000	ND	ND	ND	3	ND	ND	ND	ND	1800	ND	4900	ND	ND
Xylene (total)	µg/kg	1000000	<u>1</u>	<u>2</u>	<u>6</u>	<u>ND</u>	<u>ND</u>	<u>15</u>	<u>28</u>	<u>ND</u>	<u>1500</u>	<u>ND</u>	<u>12000</u>	<u>ND</u>	<u>ND</u>
Total VOCs	µg/kg	>1000000	380	325	777	45	765600	4176	358	50	80900	1417400	3570100	563300	ND
PID	ppm		--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

			<i>loc_name</i>	<i>PZ-01-07</i>	<i>PZ-01-08</i>	<i>PZ-01-09</i>	<i>PZ-01-10</i>	<i>PZ-01-11</i>	<i>PZ-01-12</i>	<i>MW-01-10B</i>	<i>MW-01-10B</i>	<i>MW-01-9A</i>	<i>BH87-4B</i>
			<i>sampledate</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/16/01</i>	<i>10/16/01</i>	<i>10/18/01</i>	<i>10/17/01</i>
			<i>Depth</i>	<i>12-14</i>	<i>4-6</i>	<i>5-7</i>	<i>8-10</i>	<i>9-13</i>	<i>5-7</i>	<i>10-12</i>	<i>4-6</i>	<i>16-17</i>	<i>11-13</i>
	<i>NYSDEC</i>												
<i>VOAs</i>	<i>Units</i>	<i>SCO (1)</i>											
1,1,1-Trichloroethane	µg/kg	1000000	950	ND	ND	ND	ND	ND	ND	ND	7800	ND	ND
1,1,2,2-Tetrachloroethane	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/kg	480000	ND	ND	ND	ND	ND	ND	2700	170	840	ND	ND
1,1-Dichloroethene	µg/kg	1000000	ND	ND	ND	ND	ND	ND	ND	ND	500	ND	ND
1,2,4-Trichlorobenzene	µg/kg	NL	ND	140000	ND	19000	ND	ND	ND	ND	ND	ND	910
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/kg	1000000	ND	15000	12	680000	160000	ND	ND	ND	ND	ND	2500
1,2-Dichloroethane	µg/kg	60000	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/kg	560000	ND	25000	4	130000	3500	ND	ND	ND	ND	ND	4800
1,4-Dichlorobenzene	µg/kg	250000	ND	20000	6	430000	32000	ND	ND	ND	ND	ND	4300
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	µg/kg	1000000	975000	240000	4500	ND	ND	330000	--	2646000	21	6630000	
2-Hexanone	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
2-Nitropropane	µg/kg	--	--	--	--	--	--	--	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	µg/kg	1000000	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/kg	1000000	ND	ND	ND	ND	ND	ND	ND	ND	2000	5	ND
Benzene	µg/kg	89000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	µg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	µg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Methyl Bromide)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	µg/kg	44000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/kg	1000000	160	7200	5	830000	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	µg/kg	700000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl Chloride)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/kg	1000000	480	ND	ND	ND	ND	ND	ND	240	ND	ND	ND
cis-1,3-Dichloropropene	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/kg	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/kg	780000	ND	19000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	µg/kg	NL	ND	17000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

			<i>loc_name</i>	<i>PZ-01-07</i>	<i>PZ-01-08</i>	<i>PZ-01-09</i>	<i>PZ-01-10</i>	<i>PZ-01-11</i>	<i>PZ-01-12</i>	<i>MW-01-10B</i>	<i>MW-01-10B</i>	<i>MW-01-9A</i>	<i>BH87-4B</i>
			<i>sampledate</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/30/01</i>	<i>10/16/01</i>	<i>10/16/01</i>	<i>10/18/01</i>	<i>10/17/01</i>
			<i>Depth</i>	<i>12-14</i>	<i>4-6</i>	<i>5-7</i>	<i>8-10</i>	<i>9-13</i>	<i>5-7</i>	<i>10-12</i>	<i>4-6</i>	<i>16-17</i>	<i>11-13</i>
	<i>Units</i>	<i>NYSDEC SCO (1)</i>											
VOAs													
Methyl cyclohexane	µg/kg	NL	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tert Butyl Ether	µg/kg	1000000	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/kg	1000000	500	ND	ND	ND	ND	ND	ND	ND	1300	ND	ND
Styrene	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	µg/kg	300000	210	2000	200	ND	10000	1300	3000	4700	3	2300	
Toluene	µg/kg	1000000	6500	ND	ND	ND	ND	1100	160	8300	1	9500	
trans-1,2-Dichloroethene	µg/kg	1000000	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	
trans-1,3-Dichloropropene	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	
Trichloroethene	µg/kg	400000	4500	ND	ND	ND	5800	ND	1100	56000	ND	41000	
Trichlorofluoromethane (CFC-11)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	--	--	--	--	--	--	--	--	--	--	
Vinyl chloride	µg/kg	27000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylene (total)	µg/kg	1000000	<u>ND</u>	<u>40000</u>	<u>11</u>	<u>ND</u>	<u>ND</u>	<u>ND</u>	<u>200</u>	<u>430</u>	<u>1</u>	<u>ND</u>	
Total VOCs	µg/kg	>1000000	988300	525200	4741	2089000	211300	335100	4870	2727870	42	6695310	
PID	ppm		--	--	--	--	--	--	--	--	--	--	

Notes:

 Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

 Boreholes which were not excavated during 2013 Soil Remediation

TABLE 1

**SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK**

		<i>loc_name</i>	<i>BH87-4B</i>	<i>MW-88-2OB</i>	<i>MW-88-7OB</i>	<i>MW-88-7OB/D</i>
		<i>sampledate</i>	<i>10/17/01</i>	<i>10/17/01</i>	<i>10/16/01</i>	<i>10/16/01</i>
		<i>Depth</i>	<i>1-4</i>	<i>4-6</i>	<i>3-5</i>	<i>3-5</i>
	<i>Units</i>	<i>NYSDEC</i>				
<i>VOAs</i>		<i>SCO (1)</i>				
1,1,1-Trichloroethane	µg/kg	1000000	ND	1200	ND	ND
1,1,2,2-Tetrachloroethane	µg/kg	NL	--	--	--	--
1,1,2-Trichloroethane	µg/kg	NL	--	--	--	--
1,1-Dichloroethane	µg/kg	480000	ND	ND	ND	ND
1,1-Dichloroethene	µg/kg	1000000	ND	ND	ND	ND
1,2,4-Trichlorobenzene	µg/kg	NL	ND	4100	7900	110000
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	NL	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	NL	--	--	--	--
1,2-Dichlorobenzene	µg/kg	1000000	1300	10000	28000	110000
1,2-Dichloroethane	µg/kg	60000	--	--	--	--
1,2-Dichloropropane	µg/kg	NL	--	--	--	--
1,3-Dichlorobenzene	µg/kg	560000	3200	15000	57000	210000
1,4-Dichlorobenzene	µg/kg	250000	2600	14000	44000	170000
2-Butanone (Methyl Ethyl Ketone)	µg/kg	1000000	ND	ND	ND	ND
2-Chlorotoluene	µg/kg	1000000	--	7884000	3000000	3000000
2-Hexanone	µg/kg	NL	--	--	--	--
2-Nitropropane	µg/kg	--	--	--	--	--
3-Chlorotoluene	µg/kg	NL	--	--	--	--
4-Chlorotoluene	µg/kg	1000000	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	NL	ND	ND	ND	ND
Acetone	µg/kg	1000000	ND	ND	ND	ND
Benzene	µg/kg	89000	ND	2500	1900	9800
Bromodichloromethane	µg/kg	NL	ND	ND	ND	ND
Bromoform	µg/kg	NL	ND	ND	ND	ND
Bromomethane (Methyl Bromide)	µg/kg	NL	--	--	--	--
Carbon disulfide	µg/kg	NL	ND	ND	ND	ND
Carbon tetrachloride	µg/kg	44000	ND	ND	ND	ND
Chlorobenzene	µg/kg	1000000	ND	27000	2800	14000
Chloroethane	µg/kg	NL	ND	ND	ND	ND
Chloroform (Trichloromethane)	µg/kg	700000	ND	ND	ND	ND
Chloromethane (Methyl Chloride)	µg/kg	NL	--	--	--	--
cis-1,2-Dichloroethene	µg/kg	1000000	ND	ND	ND	ND
cis-1,3-Dichloropropene	µg/kg	NL	--	--	--	--
Cyclohexane	µg/kg	NL	--	--	--	--
Dibromochloromethane	µg/kg	NL	ND	ND	ND	ND
Dichlorodifluoromethane (CFC-12)	µg/kg	NL	--	--	--	--
Ethylbenzene	µg/kg	780000	ND	ND	ND	ND
Isopropylbenzene	µg/kg	NL	ND	ND	1400	3200
Methyl acetate	µg/kg	NL	--	--	--	--

TABLE 1

SCREENING OF SOIL ANALYTICAL RESULTS TO NYSDEC SCOs - INDUSTRIAL
FRONTIER CHEMICAL SITE
NIAGARA FALLS, NEW YORK

		<i>loc_name</i>	<i>BH87-4B</i>	<i>MW-88-2OB</i>	<i>MW-88-7OB</i>	<i>MW-88-7OB/D</i>
		<i>sampledate</i>	<i>10/17/01</i>	<i>10/17/01</i>	<i>10/16/01</i>	<i>10/16/01</i>
		<i>Depth</i>	<i>1-4</i>	<i>4-6</i>	<i>3-5</i>	<i>3-5</i>
	<i>Units</i>	<i>NYSDEC</i>				
		<i>SCO (1)</i>				
VOAs						
Methyl cyclohexane	µg/kg	NL	ND	ND	ND	ND
Methyl Tert Butyl Ether	µg/kg	1000000	--	--	--	--
Methylene chloride	µg/kg	1000000	ND	ND	ND	ND
Styrene	µg/kg	NL	--	--	--	--
Tetrachloroethene	µg/kg	300000	ND	9700	ND	ND
Toluene	µg/kg	1000000	ND	13000	780	5600
trans-1,2-Dichloroethene	µg/kg	1000000	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/kg	NL	--	--	--	--
Trichloroethene	µg/kg	400000	ND	1300	ND	ND
Trichlorofluoromethane (CFC-11)	µg/kg	NL	--	--	--	--
Trifluorotrchloroethane (Freon 113)	µg/kg	NL	--	--	--	--
Vinyl chloride	µg/kg	27000	ND	ND	ND	ND
Xylene (total)	µg/kg	1000000	<u>ND</u>	<u>1300</u>	<u>ND</u>	<u>ND</u>
Total VOCs	µg/kg	>1000000	7100	7983100	3143780	3632600
PID	ppm		--	--	--	--

Notes:

Concentration exceeds NYSDEC SCO.

ND Not Detected

(1) New York State Brownfield Cleanup Program, Development of Soil Cleanup Objectives, Technical Support Document, New York State Department of Environmental Conservation (NYSDEC), Table 11-2, Final Restricted Use of SCOs as Presented in 6 NYCRR Part 375, Protection of Public Health - Industrial, September 2006.

(2) NYSDEC SCO not available, therefore substituted Total VOC SCO.

NL Not Listed

Boreholes which were not excavated during 2013 Soil Remediation