AECOM

May 8, 2024

Mr. Michael Haggerty, QEP
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7016

RE: NYSDEC Standby Contract D009803, WA#11
Former Klink Cosmo Cleaners - Site #224130
364-392 Richardson Street, Brooklyn, New York
SVE/AS System Performance Monitoring Report – March 2022 through January 2024

Dear Mr. Haggerty:

Under New York State Department of Environmental Conservation (NYSDEC) Contract D009803, WA#11, AECOM USA, Inc. (AECOM) is providing engineering services at the Former Klink Cosmo Cleaners site, located at 364-392 Richardson Street in Brooklyn, New York (see Figure 1). AECOM is performing an Interim Remedial Measure (IRM) for a Soil Vapor Extraction/Air Sparge (SVE/AS) system which includes operation, maintenance and monitoring (OM&M) inspections, operation reviews and reporting, groundwater sampling, and a Construction Completion Report (CCR). The SVE/AS IRM was formally incorporated into the Site remedy on March 19, 2019 when NYSDEC issued a Record of Decision for the Former Klink Cosmo Cleaners Site.

The SVE system was installed and became operational on August 13, 2019. The AS system was also installed and brought online September 9, 2019. This report contains an evaluation of the SVE/AS system for the period between March 2022 and February 2024. A brief summary of the site history, monitoring results, and the status of SVE/AS system are provided herein.

Previous O&M Reporting

Detailed system construction and operation history is provided in the following reports:

- Klink Cosmo Monitoring Report (AECOM, November 2019)
- Klink Cosmo Monitoring Report (AECOM, May 2020)
- Construction Completion Report (AECOM, April 2021)

Site History

The Former Klink Cosmo Cleaners property is currently owned by AWL Industries, Inc. (AWL). Based on the results of soil vapor analyses, soil and groundwater data collected as part of site investigations, the former Klink Cosmo Cleaners parcel, located at 364-392 Richardson Street, was identified as being a source of tetrachloroethene (PCE) and trichloroethene (TCE) contamination which migrated to the east, north, and northeast of the building that formerly housed the dry cleaning operations. The location of the PCE source in the vadose zone has been identified beneath the AWL Industries building, near the northeastern portion of the building.

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The PCE contaminated soil has resulted in a large chlorinated volatile organic compound (CVOC) dissolved phase contaminant plume that is migrating towards the north and northeast into and extends vertically to the top of the Raritan Formation, the regional clay confining layer. The estimated area of soil contamination is 6,000 square feet and the estimated depth of contaminated soil in the vadose zone ranges from immediately beneath the concrete slab to approximately thirty-five feet below ground surface (bgs). Groundwater exists between 25 to 50 feet bgs depending on well location. Groundwater sampling indicates significant PCE and TCE contamination that decreases with depth. The historic extent of the soil and groundwater contamination are shown on Figures 2 through 6, respectively.

In November 2015, AECOM conducted an onsite SVE/ AS pilot test to evaluate the use of this technology as an IRM. The results were favorable. The pilot study provided valuable data that was used to design and size components of the existing system.

SVE/AS System Description and Background

The SVE/AS system is comprised of vapor extraction wells, air sparge wells and an onsite treatment trailer. The six 4-inch diameter SVE wells (SVE-1 through SV-6) extended approximately 27 feet bgs to expedite the collection of PCE and TCE contamination from the soil. To treat the shallow and deep zones of contamination in the groundwater, eight AS wells (SP-1 through SP-4, SP-6, & SP-8) extended 50 feet bgs and two AS wells (SP-5 and SP-7) extended to approximately 85 feet bgs. The SP wells discharge air into the two groundwater zones to enhance the volatilization of contaminants that are collected by the SVE wells. TCE and PCE vapors extracted from the formation are conveyed through shallow underground piping to the onsite treatment trailer. The treatment trailer is a thermostatically controlled portable enclosure equipped with a liquid/ vapor separator, blower, compressor, pump, heat exchanger, filters, and two trains of vapor-phase carbon units, constructed in parallel, to treat the extracted vapors prior to discharging to the atmosphere. Each train consists of two vapor-phase carbon adsorbers constructed in series. The AS system cannot operate unless the SVE system is operating to ensure vapors released from the groundwater can be captured for treatment. The process and instrumentation diagram (P&ID) for the SVE/AS system is provided in Attachment A. The SVE/AS layout and piping plans are shown in Attachment B.

The SVE/AS treatment trailer is located on the south side of Richardson Street west of the intersection with Vandervoort Avenue. The locations of SVE, AS, monitoring and observation wells (OW) are also shown in Attachment B.

SVE/AS System Modification & Observations

AECOM routinely inspects the SVE/AS system to verify the system is operating per design and to optimize system performance. Air samples are collected periodically to measure contaminant concentrations in the influent, mid-fluent, and effluent air streams. The following observations are based on AECOM's OM&M inspection/monitoring observations, from March 2022 through February 2024, and inspection reports are provided in Attachment C.

- On April 6, 2022, AECOM turned on the heat exchanger.
- On July 28, 2022, AECOM added oil to the air sparge blower and cleaned the air sparge filter.
- On August 16, 2022, AECOM changed the air sparge filter.

- On September 7, 2022, AECOM switched Carbon trains. Carbon train 1 (units 1 &2) was taken offline and Carbon Train 2 (units 3 & 4) was brought online.

- On December 21, 2022, AECOM Replaced the carbon in units 1 and 2. The spent carbon was then removed from site by Island Pump & Tank and properly disposed of as hazardous waste. The waste manifest for the disposal of carbon is included in Attachment D.

- On January 12, 2023, AECOM added oil to the air sparge blower.

- On June 16, 2023, AECOM was notified via email that the SVE/AS system had gone offline due to a power failure.

- On July 6, 2023, AECOM restored power to the SVE/AS system at 1430.

- On July 19, 2023, AECOM added oil to the air sparge blower.

- On September 12, 2023, AECOM switched Carbon trains. Carbon train 2 (units 3 & 4) was taken offline and Carbon Train 1 (units 1 & 2) was brought online. AECOM added oil to the air sparge blower.

- On February 6, 2024, AECOM shutdown the SVE and air sparge systems. The system was taken offline for a period of three months to observe if any rebound in contamination levels are observed when AECOM will restart the systems in early May 2024..

SVE/AS System Performance

The SVE and AS systems became operational on August 13 and September 9, 2019, respectively. As presented in Table 1, initial concentrations of PCE at the influent side of the VGAC were 1,500,000 micrograms per cubic meter ($\mu g/m^3$) and total volatile organic compounds (VOC) concentrations were 1,507,100 $\mu g/m^3$. The latest data indicates that PCE and total VOC influent concentrations detected in samples collected on July 19, 2023 were 37,000 $\mu g/m^3$ and 37,460 $\mu g/m^3$, respectively; a reduction of approximately 97.5 percent over the approximately four and a half-year period. The total volume soil vapor removed by the SVE and AS systems through February 6, 2024 is 391 million cubic feet. The chart below illustrates the combined total VOC concentrations collected from the extraction wells (influent to the vapor-phase carbon adsorbers) since the SVE system became operational.

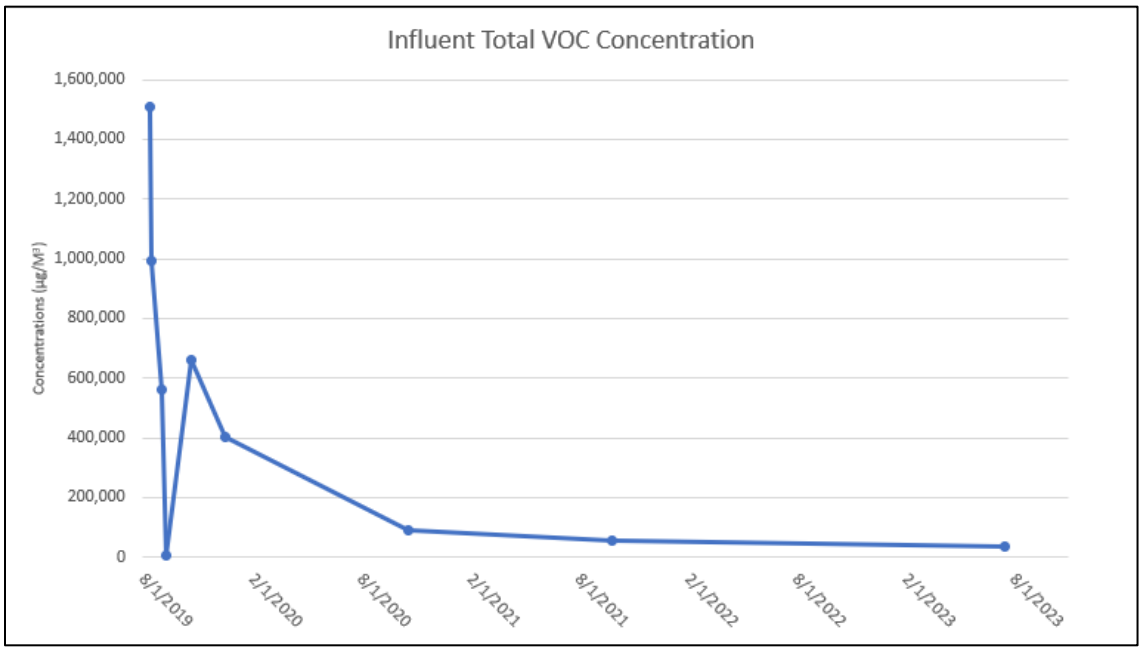


Table 2 presents the total mass of VOCs removed based on analytical data, calculated average concentrations, extraction flow rate, extraction volume, and operating duration. AECOM believes that the PCE and VOC concentrations from the September 10, 2019 sampling event are anomalous and likely related to faulty sampling equipment. They are inconsistent with the PID readings collected at the time and represent a two order of magnitude decrease when compared to the results of the previous and subsequent sampling events. The estimated mass of VOCs removed since August 13, 2019 is 2,409 pounds. The calculation and data used to estimate the removed amount is provided in Attachment E.

Groundwater Sampling

Initial groundwater concentrations at the site were measured during a predesign investigation sampling event that took place in August 2015. Subsequent sampling events have occurred in November 2018, March 2021, September 2021, May 2022, and July 2023. Groundwater samples were taken from NYSDEC monitoring wells located adjacent to and downgradient of the site and the results of all sampling events are shown on Figure 7.

Baseline Sampling

AECOM conducted the baseline groundwater sampling event in November 2018, prior to the startup of the SVE system. The results from this event serve as the baseline data for comparison during subsequent groundwater sampling events. During the November 2018 sampling event, groundwater samples were sampled from 26 wells, using a low flow purging and sampling method. The results from this event are included in Table 3, with exceedances of Class GA groundwater criteria are indicated with an oval. A statistical summary of the November 2018 sampling event results is presented in Table 4.

The following is a summary of the analytical results from the baseline sampling event:

- PCE was detected at concentrations exceeding its Class GA groundwater standard (5 micrograms per liter [µg/L]) in 18 of the 26 locations sampled. Exceedances ranged from 6.3 µg/L (DEC-090D) to 2,100 µg/L (DEC-031).

- TCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 5 of the 26 locations sampled. Exceedances ranged from 7.5 µg/L (DEC-014R) to 250 µg/L (DEC-111D).
- Cis-1,2-Dichloroethene (DCE) was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 5 of the 26 locations sampled. Exceedances ranged from 6.6 µg/L (DEC-031) to 30 µg/L (DEC-031TC).
- 1,2-Dichloroethane (DCA) was detected at concentrations exceeding its Class GA groundwater standard (0.6 µg/L) in 12 of the 26 locations sampled. Exceedances ranged from 0.7 µg/L (DEC-064D and DEC-142) to 660 µg/L (DEC-142D).
- 1,1-DCA was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 1 of the 26 locations sampled. The sole exceedance was 25 µg/L (DEC-111D).
- 1,1-DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 2 of the 26 locations sampled. Exceedances ranged from 25 µg/L (DEC-142D) to 62 µg/L (DEC-111D).

Round 1 Sampling

The first round of groundwater sampling, following the startup of the SVE system, occurred on March 25 and 26, 2021. During the March 2021 sampling event 26 wells were sampled using passive diffusion bags. The results from this event are included in Table 3, with exceedances of Class GA groundwater criteria are indicated with an oval. A statistical summary of the March 2021 sampling event results is presented in Table 5.

A summary of the detected compounds in the March 2021 groundwater samples are provided below:

- PCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 14 of the 26 locations sampled. Exceedances ranged from 5.5 µg/L (DEC-045) to 520 µg/L (DEC-111).
- TCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 5 of the 26 locations sampled. Exceedances ranged from 7.5 µg/L (DEC-111) to 110 µg/L (DEC-142D).
- Cis-1,2-DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 3 of the 26 locations sampled. Exceedances ranged from 8.3 µg/L (DEC-111) to 13 µg/L (DEC-142D).
- 1,2-DCA was detected at concentrations exceeding its Class GA groundwater standard (0.6 µg/L) in 11 of the 26 locations sampled. Exceedances ranged from 0.71 µg/L (DEC-045) to 680 µg/L (DEC-031D).
- 1,1-DCA was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 2 of the 26 locations sampled. Exceedances were 13 µg/L (DEC-065D) and 27 µg/L (DEC-111D).
- 1,1-DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 3 of the 26 locations sampled. Exceedances ranged from 9 µg/L (DEC-065D) to 20 µg/L (DEC-142D).

The following is a summary of the analytical results in comparison to the baseline event:

- PCE concentrations decreased in 18 of the 21 monitoring wells that contained exceedances during the baseline sampling event. The most significant decrease in concentration (2,070 µg/L) was at location DEC-031, adjacent to source area. PCE also demonstrated an order of magnitude reduction in concentrations at the other source adjacent wells (DEC-031TC, DEC-044, DEC-044D, DEC-065, DEC-140, DEC-141 and DEC-141D).
- PCE concentrations increased in 3 of the 21 wells that contained exceedances during the baseline sampling event (DEC-090 -10 µg/L, DEC-111 - 120 µg/L, and DEC-142 – 20 µg/L). These wells are downgradient of the source area. The increases in concentrations are not significant (e.g., DEC-111 increased from 400 µg/L to 520 µg/L) and can be expected in downgradient locations.
- Wells that did not contain PCE concentrations above criteria during the baseline sampling event showed no change, no new exceedances of PCE were detected.

Round 2 Sampling

The second round of groundwater sampling, following the startup of the SVE system, occurred on September 15 and 16, 2021. During the September 2021 sampling event 26 wells were sampled using passive diffusion bags. The results from this event are included in Table 3, with exceedances of Class GA groundwater criteria are indicated with an oval. A statistical summary of the September 2021 sampling event results is presented in Table 6.

A summary of the detected compounds in the March 2021 groundwater samples are provided below:

- PCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 14 of the 26 locations sampled. Exceedances ranged from 8.7 µg/L (DEC-014D) to 1,700 µg/L (DEC-014R).
- TCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 5 of the 26 locations sampled. Exceedances ranged from 12 µg/L (DEC-031TC) to 110 µg/L (DEC-142D).
- Cis-1,2- DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 5 of the 26 locations sampled. Exceedances ranged from 5.6 µg/L (DEC-111) to 57 µg/L (DEC-031TC).
- 1,2-DCA was detected at concentrations exceeding its Class GA groundwater standard (0.6 µg/L) in 10 of the 26 locations sampled. Exceedances ranged from 2.1 µg/L (DEC-065D) to 550 µg/L (DEC-111D).
- 1,1-DCA was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 2 of the 26 locations sampled. Exceedances were 11 µg/L (DEC-065D) and 20 µg/L (DEC-111D).
- 1,1-DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 4 of the 26 locations sampled. Exceedances ranged from 6.7 µg/L (DEC-065D) to 17 µg/L (DEC-142D).

The following is a summary of the Round 2 analytical results compared to the March 2021 Round 1 sampling event:

- PCE concentrations decreased in 8 of 14 monitoring wells. The most significant decrease was at downgradient location DEC-111 - 160 µg/L with a drop from 520 µg/L to 360 µg/L.
- PCE concentrations increased in 5 monitoring wells when compared to the March 2021 sampling data. The largest increase in concentrations was 1,310 µg/L at downgradient location DEC-014R where PCE concentration increased from 390 µg/L to 1,700 µg/L. However, compared to the baseline event, the concentration decreased by 300 µg/L.

Round 3 Sampling

The third round of groundwater sampling, following the startup of the SVE system, occurred on May 23 and 24, 2022. During the May 2022 sampling event 26 wells were sampled using passive diffusion bags. The results from this event are included in Table 3, with exceedances of Class GA groundwater criteria are indicated with an oval. A statistical summary of the May 2022 sampling event results is presented in Table 7.

A summary of the detected compounds in the May 2022 groundwater samples are provided below:

- PCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 13 of the 26 locations sampled. Exceedances ranged from 6.8 µg/L (DEC-065D) to 310 µg/L (DEC-014R).
- TCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 3 of the 26 locations sampled. Exceedances ranged from 24 µg/L (DEC-111D) to 66 µg/L (DEC-142D).
- Cis-1,2- DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 2 of the 26 locations sampled. Exceedances were 5.3 µg/L (DEC-142D) and 6.1 µg/L (DEC-065D).
- 1,2-DCA was detected at concentrations exceeding its Class GA groundwater standard (0.6 µg/L) in 9 of the 26 locations sampled. Exceedances ranged from 2.2 µg/L (DEC-065D) to 520 µg/L (DEC-031D).
- 1,1-DCA was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 2 of the 26 locations sampled. Exceedances were 10 µg/L (DEC-065D) and 22 µg/L (DEC-111D).
- 1,1-DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 3 of the 26 locations sampled. Exceedances ranged from 6.4 µg/L (DEC-065D) to 11 µg/L (DEC-111D).
- Methyl ethyl Ketone (2-Butanone) was detected at concentrations exceeding its Class GA groundwater standard (50 µg/L) in 2 of the 26 locations sampled. Exceedances were 77 µg/L (DEC-111) and 84 µg/L (DEC-014R).

The following is a summary of the Round 3 analytical results compared to the September 2021 Round 2 sampling event:

- PCE concentrations decreased in 9 of 13 monitoring wells. The most significant decrease was at downgradient location DEC-014R – 1,390 µg/L with a decrease from 1,700 µg/L to 310 µg/L.

- PCE concentrations increased in 4 monitoring wells when compared to the September 2021 sampling data. The largest increase in concentrations was 14 µg/L at well DEC-141 where PCE concentration increased from 37 µg/L to 51 µg/L. However, compared to the baseline event, the concentration decreased by 419 µg/L.

Round 4 Sampling

The fourth round of groundwater sampling, following the startup of the SVE system, occurred on July 25 and 26, 2023. During the July 2023 sampling event 25 wells were sampled using passive diffusion bags. The results from this event are included in Table 3, with exceedances of Class GA groundwater criteria are indicated with an oval. A statistical summary of the July 2023 sampling event results is presented in Table 8.

A summary of the detected compounds in the July 2023 groundwater samples are provided below:

- PCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 12 of the 25 locations sampled. Exceedances ranged from 8.4 µg/L (DEC-111D) to 850 µg/L (DEC-014R).
- TCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 3 of the 25 locations sampled. Exceedances ranged from 10 µg/L (DEC-142D) to 77 µg/L (DEC-111D).
- Cis-1,2- DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 1 of the 25 locations sampled with a concentration of 15 µg/L (DEC-111D).
- 1,2-DCA was detected at concentrations exceeding its Class GA groundwater standard (0.6 µg/L) in 9 of the 25 locations sampled. Exceedances ranged from 1.3 µg/L (DEC-066D) to 950 µg/L (DEC-111D).
- 1,1-DCA was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 1 of the 25 locations sampled with a concentration of 10 µg/L (DEC-111D).
- 1,1-DCE was detected at concentrations exceeding its Class GA groundwater standard (5 µg/L) in 1 of the 25 locations sampled with a concentration of 13 µg/L (DEC-111D).

The following is a summary of the Round 4 analytical results compared to the May 2022 Round 3 sampling event:

- PCE concentrations decreased or remained the same in 7 of 14 monitoring wells. The most significant decrease was at downgradient location DEC-141 – 25 µg/L with a decrease from 51 µg/L to 26 µg/L.
- PCE concentrations increased in 7 monitoring wells when compared to the May 2022 sampling data. The largest increase in concentrations was 540 µg/L at downgradient location DEC-014R where PCE concentration increased from 310 µg/L to 850 µg/L. However, compared to the baseline event, the concentration decreased by 1,150 µg/L.

In comparison to the baseline sampling data, the sampling data collected in July 2023 shows a significant decrease in the concentrations of PCE, the primary contaminant of concern, especially around the source area perimeter. Dissolved phase groundwater contamination is reducing through volatilization of PCE via

air sparging and collection of PCE via soil vapor extraction. Figures 8 through 13 illustrates the reduction of the PCE in groundwater over time.

Dissolved concentrations of most other VOCs have also decreased. However, an increased concentration of 1,2-DCA was reported in well DEC-111D. There are other potential sources of contamination in the vicinity of the Klink Cosmo property associated with the National Priority List Meeker Avenue site that could be contributing to dissolved phase groundwater contamination. Contaminants from other sources are not addressed as part of the IRM/remedy at the Klink Cosmo site.

A Mann-Kendall trend analysis was performed on the historical VOC concentrations for the period of 2015 to 2023. The trend analysis is presented in Table 9 and shows the following:

- There were downward trends for PCE, in source area wells DEC-031, DEC-031D, DEC-065, DEC-066, DEC-140, DEC-141 and DEC-141D.

- There were downward trends for PCE, in the following wells east of Vandervoort Avenue:
    - DEC-014R;
    - DEC-04;
    - DEC-090; and,
    - DEC-090D.

- There were downward trends for PCE, in the following wells north of Richardson Street:
    - DEC-111;
    - DEC-142; and,
    - DEC-142D.

- Downward trends for cis-1,2-DCE were observed in wells DEC-014D, DEC-031, DEC-065D, DEC-140D and DEC-141.

- Downward trends for TCE were observed in wells DEC-014D, DEC-031, DEC-045, DEC-111, DEC-141 and DEC-142D.

- Downward trends for 1,1,1-Trichloroethane were observed in wells DEC-111D and DEC-142D.

- In MW-142D, additional downward trends were observed for 1,1-DCA, 1,1-DCE and 1,2-DCA.

- An upward trend was noted for 1,2-DCA in DEC-111D.

- No other upward trends were observed in the remaining wells sampled.

Conclusions and Recommendations

The SVE system is effective in treating the both the vadose zone soil contamination and saturated zone based on the reduction of PCE and TCE concentrations over the operational period to date. Approximately 2,409 pounds of total VOCs were removed from soil and groundwater through February 6, 2024. Groundwater analytical results of site contaminants also show substantial decrease in concentrations over the operational period. The current rate of contaminant mass removal is approximately 5.04 pounds per week. Based upon the current mass removal rates, AECOM recommended a temporary shutdown of the SVE/AS system to determine if a rebound in contamination occurs. The SVE/AS system will be restarted in early May 2024. Air samples should be collected from the influent, mid-fluent, and effluent sample ports to assess whether rebounding has occurred. During the shutdown period, AECOM will collect indoor air samples from 364 Richardson Street as directed by NYSDEC and NYSDOH.

Sincerely,

AECOM USA, Inc.

Michael Gutmann, PG
Project Manager

cc: File: 60629050.500 Deliverables. February 2024 O&M Report

Figures

Figure 1 Site Location
Figure 2 Extent of Soil Contamination
Figure 3 Extent of PCE in Shallow Groundwater Maximum Concentration Through February 2017
Figure 4 Extent of TCE in Shallow Groundwater Maximum Concentration Through February 2017
Figure 5 Extent of PCE in Deep Groundwater Maximum Concentration Through February 2017
Figure 6 Extent of TCE in Deep Groundwater Maximum Concentration Through February 2017
Figure 7 Performance Monitoring Groundwater Results
Figure 8 Tetrachloroethene Concentration Trends in Shallow Wells East of Vandervoort Avenue
Figure 9 Tetrachloroethene Concentration Trends in Deep Wells East of Vandervoort Avenue
Figure 10 Tetrachloroethene Concentration Trends in Wells North of Richardson Street
Figure 11 Tetrachloroethene Concentration Trends in Shallow Wells - Source Area
Figure 12 Tetrachloroethene Concentration Trends in Deep Wells - Source Area
Figure 13 Tetrachloroethene Concentration Trend in Top of Clay Well DEC-031TC - Source Area

Tables

Table 1 SVE System Analytical Results
Table 2 Estimate of VOC Mass Removal During SVE Operation
Table 3 Groundwater Monitoring Results
Table 4 Statistical Summary of Compounds Detected in November 2018 Groundwater Samples
Table 5 Statistical Summary of Compounds Detected in March 2021 Groundwater Samples
Table 6 Statistical Summary of Compounds Detected in September 2021 Groundwater Samples
Table 7 Statistical Summary of Compounds Detected in May 2022 Groundwater Samples
Table 8 Statistical Summary of Compounds Detected in July 2023 Groundwater Samples
Table 9 Mann-Kendall Trend Analyses

Attachments

Attachment A Process and Instrumentation Diagram
Attachment B SVE/ AS Layout and Piping Plans
Attachment C OM&M Inspection Forms
Attachment D Hazardous Waste Manifest
Attachment E Determination of VOC Mass Removal

References

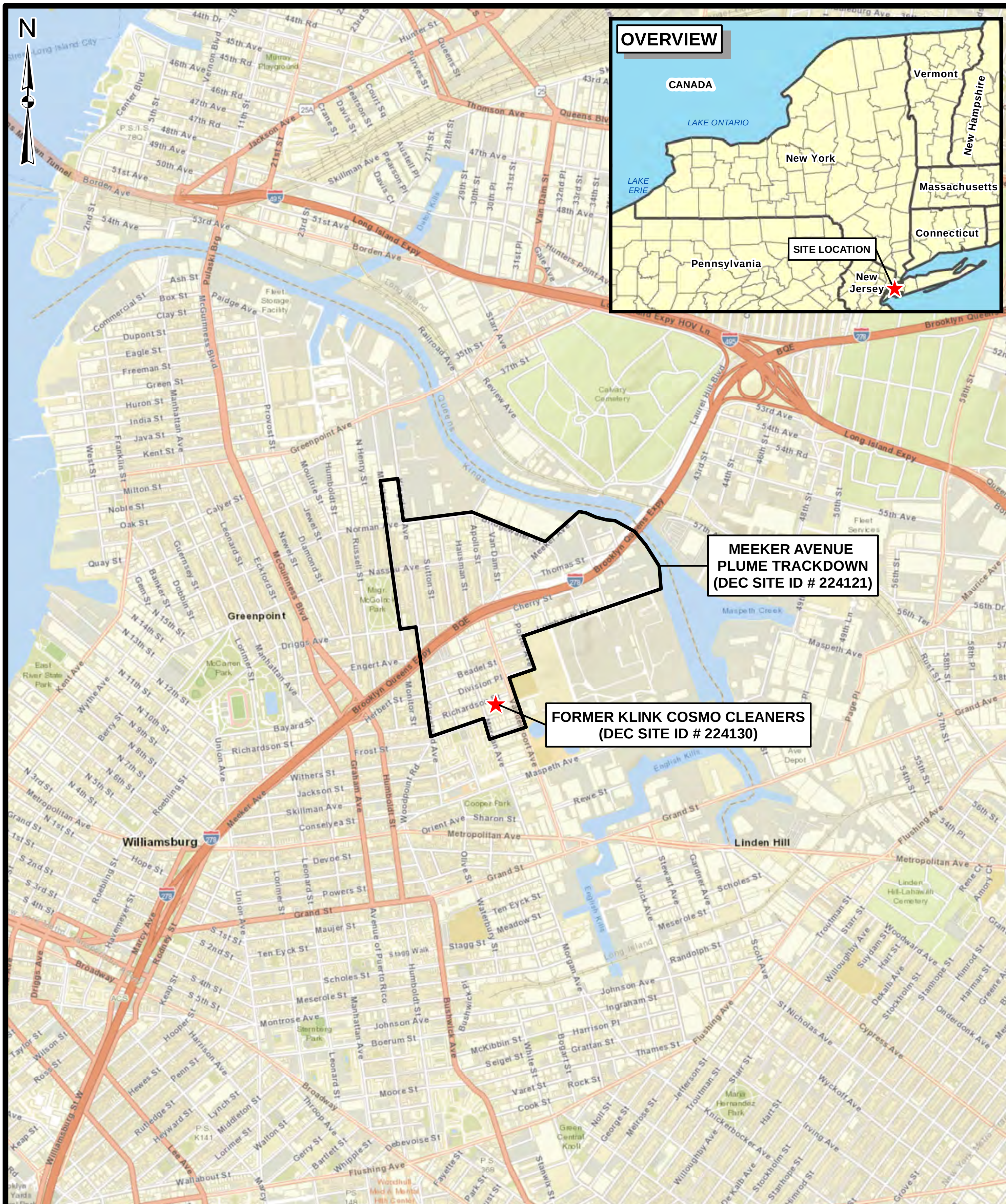
Former Klink Cosmo Cleaners Site Interim Remedial Measure Construction Completion Report – AECOM, 2021.

Former Klink Cosmo Cleaners SVE/AS System Performance Monitoring Report - AECOM, November 2019.

Former Klink Cosmo Cleaners SVE/AS System Performance Monitoring Report - AECOM, May 2020.

Former Klink Cosmo Cleaners SVE/AS System Performance Monitoring Report - AECOM, March 2022.

FIGURES



Source: ESRI World Street Map

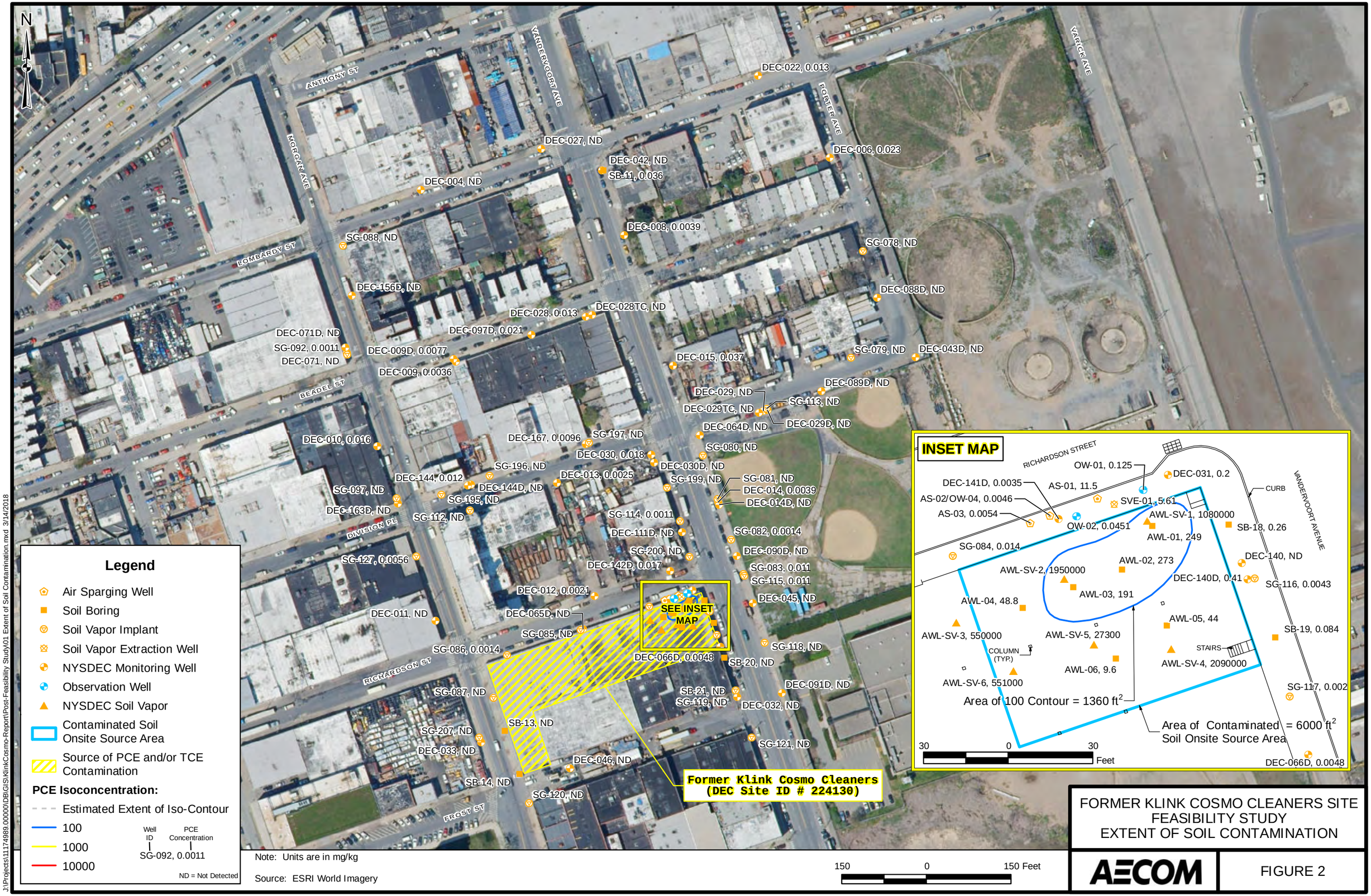
2,000 0 2,000 Feet

AECOM

FORMER KLINK COSMO CLEANERS SITE
SITE LOCATION

FIGURE 1

J:\Projects\11174989.00000\DB\GIS\KlinkCosmo-ReportLetter Report\01 Site Location.mxd 9/28/2017 MDL



Legend

- Air Sparging Well
- Soil Boring
- Soil Vapor Implant
- Soil Vapor Extraction Well
- NYSDEC Monitoring Well
- Observation Well
- NYSDEC Soil Vapor
- Contaminated Soil Onsite Source Area
- Source of PCE and/or TCE Contamination

PCE Isoconcentration:

- Estimated Extent of Iso-Contour
- 100
- 1000
- 10000

Well ID | PCE Concentration
SG-092, 0.0011

ND = Not Detected

Note: Units are in mg/kg

Source: ESRI World Imagery

150 0 150 Feet

FORMER KLINK COSMO CLEANERS SITE FEASIBILITY STUDY EXTENT OF SOIL CONTAMINATION

AECOM

FIGURE 2

J:\Projects\11174989.00000\DB\GIS\KlinkCosmo-Report\Post-Feasibility Study\01 Extent of Soil Contamination.mxd 3/14/2018

N

ANTHONY ST
VANDERVOORT AVE
MORGAN AVE
LOMBARDY ST
BEADEL ST
DIVISION PL
RICHARDSON ST
FROST ST
PORTER AVE
VARICK AVE

DEC-022D, 1300
DEC-039, 79
DEC-027, 34
DEC-004, 4.4
DEC-042, 84
DEC-006D, 8000
DEC-008, 3000
DEC-007, 2600
DEC-088, 150
DEC-156, 29
DEC-028, 4200
DEC-097, 240
DEC-071, 56
DEC-015R, 120
DEC-015, 490
DEC-043, 37
DEC-009, 260
DEC-089, 59
DEC-029, 17000
DEC-010, 47
DEC-167, 1800
DEC-064, 220
DEC-030, 4400
DEC-144, 492
DEC-163, 140
DEC-013, 7800
DEC-014, 5900
DEC-014R, 46000
DEC-111, 1300
DEC-090, 6400
DEC-142, 370
DEC-012, 1200
DEC-141, 1900
DEC-031, 33000
DEC-044, 3600
DEC-045, 130
DEC-140, ND
DEC-011, 13
DEC-065, 200
DEC-066, 220
AWL-04, 1400
AWL-03, 2000
AWL-01, 870
AWL-05, 2800
DEC-032, 3
DEC-091, ND
DEC-033R, 2.7
DEC-033, 3.6
DEC-046, 11

Area of 1,000 Contour = 281,380 ft^2

Area of 10,000 Contour = 13,651 ft^2

Legend

- NYSDEC Monitoring Well

PCE Isoconcentration:

- Estimated Extent of Iso-Contour
- 100
- 1000
- 10000

Well ID | PCE Concentration

DEC-029, 17000

ND = Not Detected

Note: Units are in µg/L

150 0 150 Feet

FORMER KLINK COSMO CLEANERS SITE
FEASIBILITY STUDY
EXTENT OF PCE IN SHALLOW GROUNDWATER
MAXIMUM CONCENTRATIONS THROUGH FEBRUARY 2017

AECOM

FIGURE 3

J:\Projects\11174989.00000\DB\GIS\KlinkCosmo-Report\Feasibility Study\03-02 PCE Isoconc Shallow GW MAX CONC.mxd 8/16/2017

N

ANTHONY ST
VANDERVOORT AVE
MORGAN AVE
LOMBARDY ST
BEADEL ST
DIVISION PL
RICHARDSON ST
FROST ST
PORTER AVE
VARICK AVE

DEC-022D, 130
DEC-039, 240
DEC-027, 750
DEC-004, 580
DEC-042, 210
DEC-006D, 71
DEC-008, 190
DEC-007, 81
DEC-088, 1.7
DEC-156, 2100
DEC-028, 240
DEC-097, 37
DEC-071, 1000
DEC-009, 100
DEC-015R, 9.1
DEC-015, 22
DEC-043, 1.9
DEC-089, 1.7
DEC-029, 86
DEC-064, 6.8
DEC-010, 110
DEC-167, 76
DEC-030, 36
DEC-144, 16.5
DEC-013, 220
DEC-163, 26
DEC-014, 36
DEC-014R, 300
DEC-111, 8.9
DEC-090, 12
DEC-142, 2.9
DEC-012, 29
DEC-141, 8.8
DEC-031, 54
DEC-045, 11
DEC-044, 180
DEC-140, ND
DEC-011, 33
DEC-065, 3.6
AWL-04, 7.8
AWL-03, 12
AWL-01, 1.8
AWL-05, 11
DEC-066, 4.5
DEC-032, 1.3
DEC-091, ND
DEC-033R, ND
DEC-033, 2
DEC-046, 2.4

Legend

NYSDEC Monitoring Well

TCE Isoconcentration:

Estimated Extent of Iso-Contour

100

1000

10000

Well ID | TCE Concentration

DEC-028, 240

ND = Not Detected

Note: Units are in µg/L

150 0 150 Feet

FORMER KLINK COSMO CLEANERS SITE
FEASIBILITY STUDY
EXTENT OF TCE IN SHALLOW GROUNDWATER
MAXIMUM CONCENTRATIONS THROUGH FEBRUARY 2017

AECOM

FIGURE 4

J:\Projects\11174989.00000\DB\GIS\KlinkCosmo-Report\Feasibility Study\03-03 TCE Isoconc Shallow GW MAX CONC.mxd 7/25/2018

N

ANTHONY ST
MORGAN AVE
LOMBARDY ST
VANDERVOORT AVE
PORTER AVE
VARICK AVE
BEADEL ST
DIVISION PL
RICHARDSON ST
FROST ST

DEC-005D, 1100
DEC-039D, 20
DEC-006TC, 4900
DEC-006DD, 750
Area of 1,000 Contour = 42,205 ft^2
DEC-007D, 400
DEC-088D, 190
DEC-156D, ND
DEC-028TC, ND
DEC-028D, 13
DEC-071D, ND
DEC-097D, 17
DEC-009D, 17
DEC-015D, 640
DEC-043D, 9
DEC-089D, 1200
DEC-029D, 7000
DEC-029TC, 4500
Area of 1,000 Contour = 10,553 ft^2
DEC-064D, 15
DEC-010D, 210
DEC-030D, 43
DEC-144D, 66
DEC-013D, 190
DEC-163D, 19
DEC-014D, 31
DEC-111D, 18
DEC-090D, 10
DEC-142D, 19
DEC-031TC, 3.4
DEC-141D, 1.4
DEC-031D, 20
Area of 1,000 Contour = 1,285 ft^2
DEC-044D, 1.5
DEC-011D, 3.3
DEC-140D, 1100
DEC-045D, 0.44
DEC-065D, 83
DEC-066D, 1.7
DEC-091D, 3.3
DEC-046D, 4.1

Legend

NYSDEC Monitoring Well

PCE Isoconcentration:

Estimated Extent of Iso-Contour

100

1000

10000

Well ID | PCE Concentration

DEC-029TC, 900

ND = Not Detected

Note: Units are in µg/L

150 0 150 Feet

FORMER KLINK COSMO CLEANERS SITE
FEASIBILITY STUDY
EXTENT OF PCE IN DEEP GROUNDWATER
MAXIMUM CONCENTRATIONS THROUGH FEBRUARY 2017

AECOM

FIGURE 5

J:\Projects\11174989.00000\DB\GIS\KlinkCosmo-Report\Feasibility Study\03-04 PCE Isoconc Deep GW MAX CONC.mxd 8/16/2017

N

ANTHONY ST
MORGAN AVE
LOMBARDY ST
VANDERVOORT AVE
PORTER AVE
VARICK AVE
BEADEL ST
DIVISION PL
RICHARDSON ST
FROST ST

DEC-005D, 70000
DEC-039D, 1300
DEC-006TC, 410
DEC-006DD, 220
DEC-007D, 280
DEC-156D, 710
DEC-028TC, ND
DEC-028D, 110
DEC-088D, 2.7
DEC-071D, 770
DEC-097D, 140
DEC-015D, 93
DEC-009D, 260
DEC-043D, 1.4
DEC-089D, 7.9
DEC-029D, 30
DEC-029TC, 460
DEC-010D, 92
DEC-064D, 160
DEC-030D, 320
DEC-144D, 38
DEC-013D, 24
DEC-014D, 3.6
DEC-163D, 72
DEC-111D, 220
DEC-090D, 1.8
DEC-142D, 190
DEC-031TC, ND
DEC-031D, 1.2
DEC-141D, ND
DEC-044D, 1.1
DEC-011D, 5.5
DEC-140D, 4.3
DEC-045D, ND
DEC-065D, 670
DEC-066D, ND
DEC-091D, 0.6
DEC-046D, 3.3

Legend

NYSDEC Monitoring Well

TCE Isoconcentration:

Estimated Extent of Iso-Contour

100

1000

10000

Well ID | TCE Concentration

DEC-028D, 69

ND = Not Detected

Note: Units are in µg/L

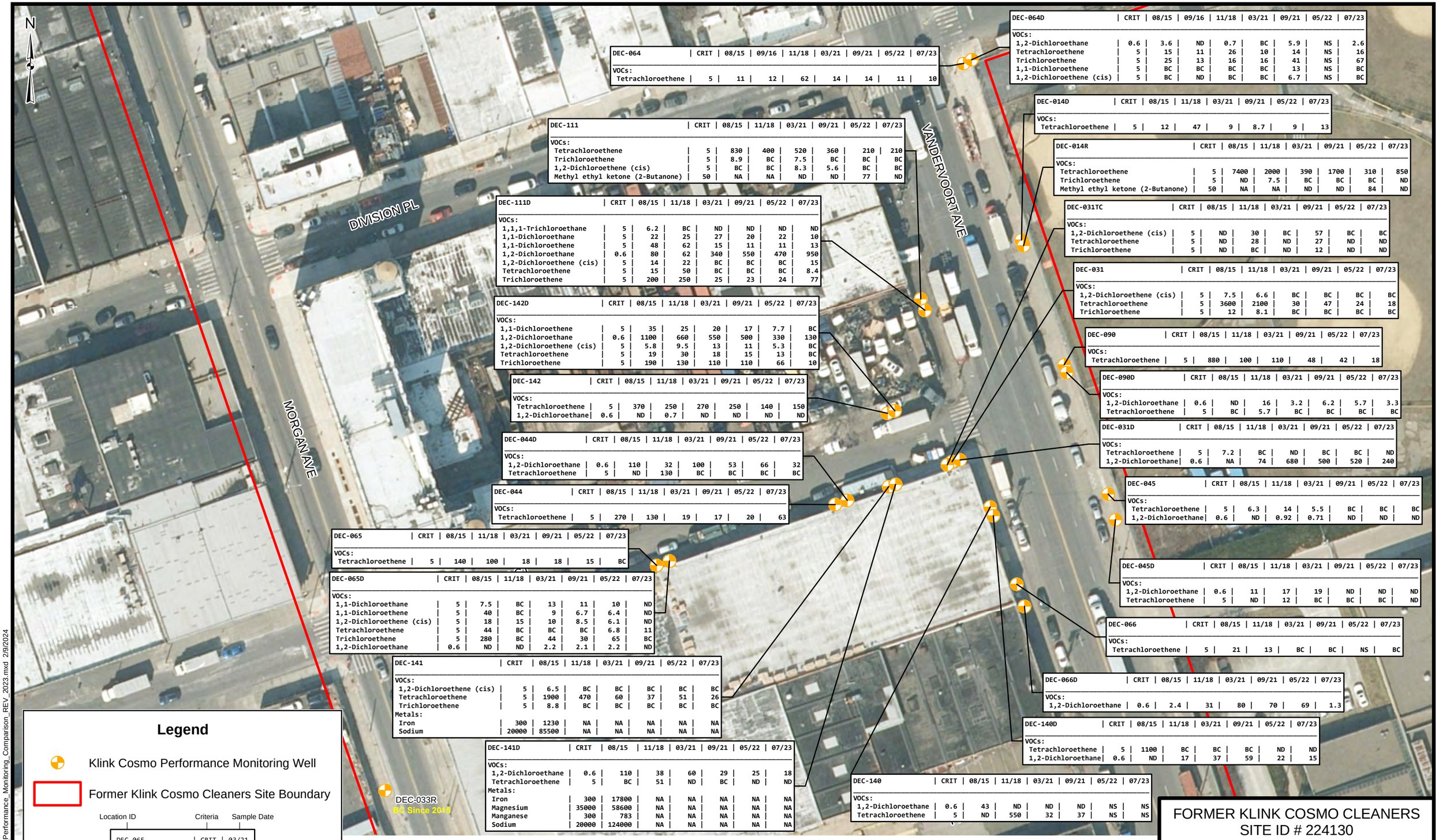
150 0 150 Feet

FORMER KLINK COSMO CLEANERS SITE
FEASIBILITY STUDY
EXTENT OF TCE IN DEEP GROUNDWATER
MAXIMUM CONCENTRATIONS THROUGH FEBRUARY 2017

AECOM

FIGURE 6

J:\Projects\11174989.00000\DB\GIS\KlinkCosmo-Report\Feasibility Study\03-05 TCE Isoconc Deep GW MAX CONC.mxd 7/25/2018



DEC-064	CRIT	08/15	09/16	11/18	03/21	09/21	05/22	07/23
VOCs:								
Tetrachloroethene	5	11	12	62	14	14	11	10

DEC-111	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	830	400	520	360	210	210
Trichloroethene	5	8.9	BC	7.5	BC	BC	BC
1,2-Dichloroethene (cis)	5	BC	BC	8.3	5.6	BC	BC
Methyl ethyl ketone (2-Butanone)	50	NA	NA	ND	ND	77	ND

DEC-111D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,1,1-Trichloroethane	5	6.2	BC	ND	ND	ND	ND
1,1-Dichloroethane	5	22	25	27	20	22	10
1,1-Dichloroethene	5	48	62	15	11	11	13
1,2-Dichloroethane	0.6	80	62	340	550	470	950
1,2-Dichloroethene (cis)	5	14	22	BC	BC	BC	15
Tetrachloroethene	5	15	50	BC	BC	BC	8.4
Trichloroethene	5	200	250	25	23	24	77

DEC-142D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,1-Dichloroethene	5	35	25	20	17	7.7	BC
1,2-Dichloroethane	0.6	1100	660	550	500	330	130
1,2-Dichloroethene (cis)	5	5.8	9.5	13	11	5.3	BC
Tetrachloroethene	5	19	30	18	15	13	BC
Trichloroethene	5	190	130	110	110	66	10

DEC-142	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	370	250	270	250	140	150
1,2-Dichloroethane	0.6	ND	0.7	ND	ND	ND	ND

DEC-044D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethane	0.6	110	32	100	53	66	32
Tetrachloroethene	5	ND	130	BC	BC	BC	BC

DEC-044	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	270	130	19	17	20	63

DEC-065	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	140	100	18	18	15	BC

DEC-065D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,1-Dichloroethane	5	7.5	BC	13	11	10	ND
1,1-Dichloroethene	5	40	BC	9	6.7	6.4	ND
1,2-Dichloroethene (cis)	5	18	15	10	8.5	6.1	ND
Tetrachloroethene	5	44	BC	BC	BC	6.8	11
Trichloroethene	5	280	BC	44	30	65	BC
1,2-Dichloroethane	0.6	ND	ND	2.2	2.1	2.2	ND

DEC-141	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethene (cis)	5	6.5	BC	BC	BC	BC	BC
Tetrachloroethene	5	1900	470	60	37	51	26
Trichloroethene	5	8.8	BC	BC	BC	BC	BC
Metals:							
Iron	300	1230	NA	NA	NA	NA	NA
Sodium	20000	85500	NA	NA	NA	NA	NA

DEC-141D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethane	0.6	110	38	60	29	25	18
Tetrachloroethene	5	BC	51	ND	BC	ND	ND
Metals:							
Iron	300	17800	NA	NA	NA	NA	NA
Magnesium	35000	58600	NA	NA	NA	NA	NA
Manganese	300	783	NA	NA	NA	NA	NA
Sodium	20000	124000	NA	NA	NA	NA	NA

DEC-064D	CRIT	08/15	09/16	11/18	03/21	09/21	05/22	07/23
VOCs:								
1,2-Dichloroethane	0.6	3.6	ND	0.7	BC	5.9	NS	2.6
Tetrachloroethene	5	15	11	26	10	14	NS	16
Trichloroethene	5	25	13	16	16	41	NS	67
1,1-Dichloroethene	5	BC	BC	BC	BC	13	NS	BC
1,2-Dichloroethene (cis)	5	BC	ND	BC	BC	6.7	NS	BC

DEC-014D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	12	47	9	8.7	9	13

DEC-014R	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	7400	2000	390	1700	310	850
Trichloroethene	5	ND	7.5	BC	BC	BC	ND
Methyl ethyl ketone (2-Butanone)	50	NA	NA	ND	ND	84	ND

DEC-031TC	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethene (cis)	5	ND	30	BC	57	BC	BC
Tetrachloroethene	5	ND	28	ND	27	ND	ND
Trichloroethene	5	ND	BC	ND	12	ND	ND

DEC-031	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethene (cis)	5	7.5	6.6	BC	BC	BC	BC
Tetrachloroethene	5	3600	2100	30	47	24	18
Trichloroethene	5	12	8.1	BC	BC	BC	BC

DEC-090	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	880	100	110	48	42	18

DEC-090D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethane	0.6	ND	16	3.2	6.2	5.7	3.3
Tetrachloroethene	5	BC	5.7	BC	BC	BC	BC

DEC-031D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	7.2	BC	ND	BC	BC	ND
1,2-Dichloroethane	0.6	NA	74	680	500	520	240

DEC-045	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	6.3	14	5.5	BC	BC	BC
1,2-Dichloroethane	0.6	ND	0.92	0.71	ND	ND	ND

DEC-045D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethane	0.6	11	17	19	ND	ND	ND
Tetrachloroethene	5	ND	12	BC	BC	BC	ND

DEC-066	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	21	13	BC	BC	NS	BC

DEC-066D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethane	0.6	2.4	31	80	70	69	1.3

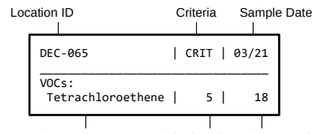
DEC-140D	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
Tetrachloroethene	5	1100	BC	BC	BC	ND	ND
1,2-Dichloroethane	0.6	ND	17	37	59	22	15

DEC-140	CRIT	08/15	11/18	03/21	09/21	05/22	07/23
VOCs:							
1,2-Dichloroethane	0.6	43	ND	ND	ND	NS	NS
Tetrachloroethene	5	ND	550	32	37	NS	NS

Legend

Klink Cosmo Performance Monitoring Well

Former Klink Cosmo Cleaners Site Boundary



Criteria: NYSDEC TOGS (1.1.1), Ambient water quality standards and guidance values and groundwater effluent limitations

Notes: BC = Below Criteria
ND = Not Detected
NA = Not Analyzed
NS = Not Sampled

60 0 60 Feet

FORMER KLINK COSMO CLEANERS
SITE ID # 224130
PERFORMANCE MONITORING
GROUNDWATER RESULTS

AECOM

FIGURE 7

C:\Meeker\Klink_Cosmo_Performance_Monitoring_Comparison_REV_2023.mxd 2/9/2024

Figure 8
Tetrachloroethene Concentration Trends in Shallow Wells
East of Vandervoort Avenue

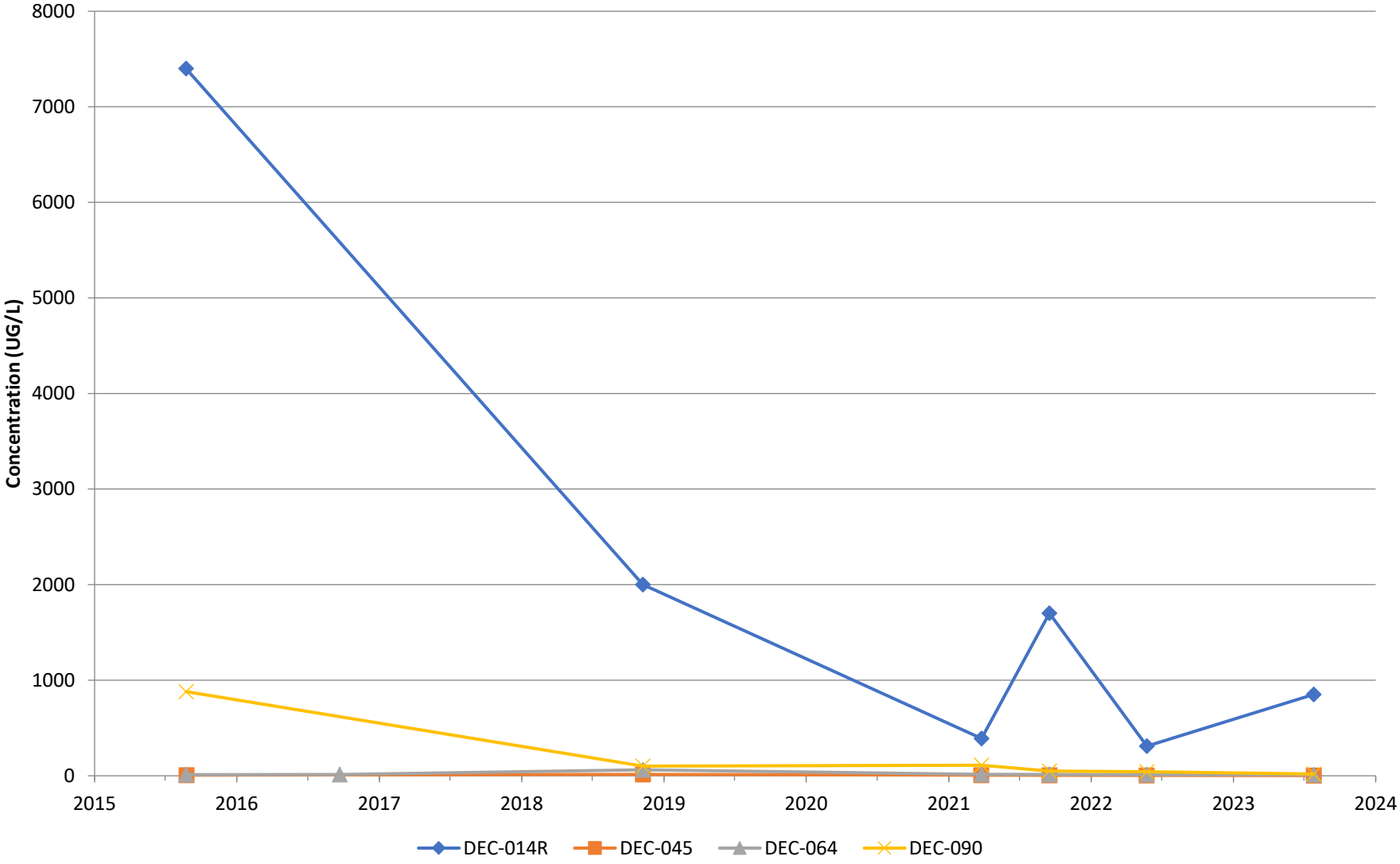


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Figure 8 - PCE E of Vand Shallow.xlsx, Tetrachloroethene-plot, 2/9/2024

Figure 9
Tetrachloroethene Concentration Trends in Deep Wells
East of Vandervoort Avenue

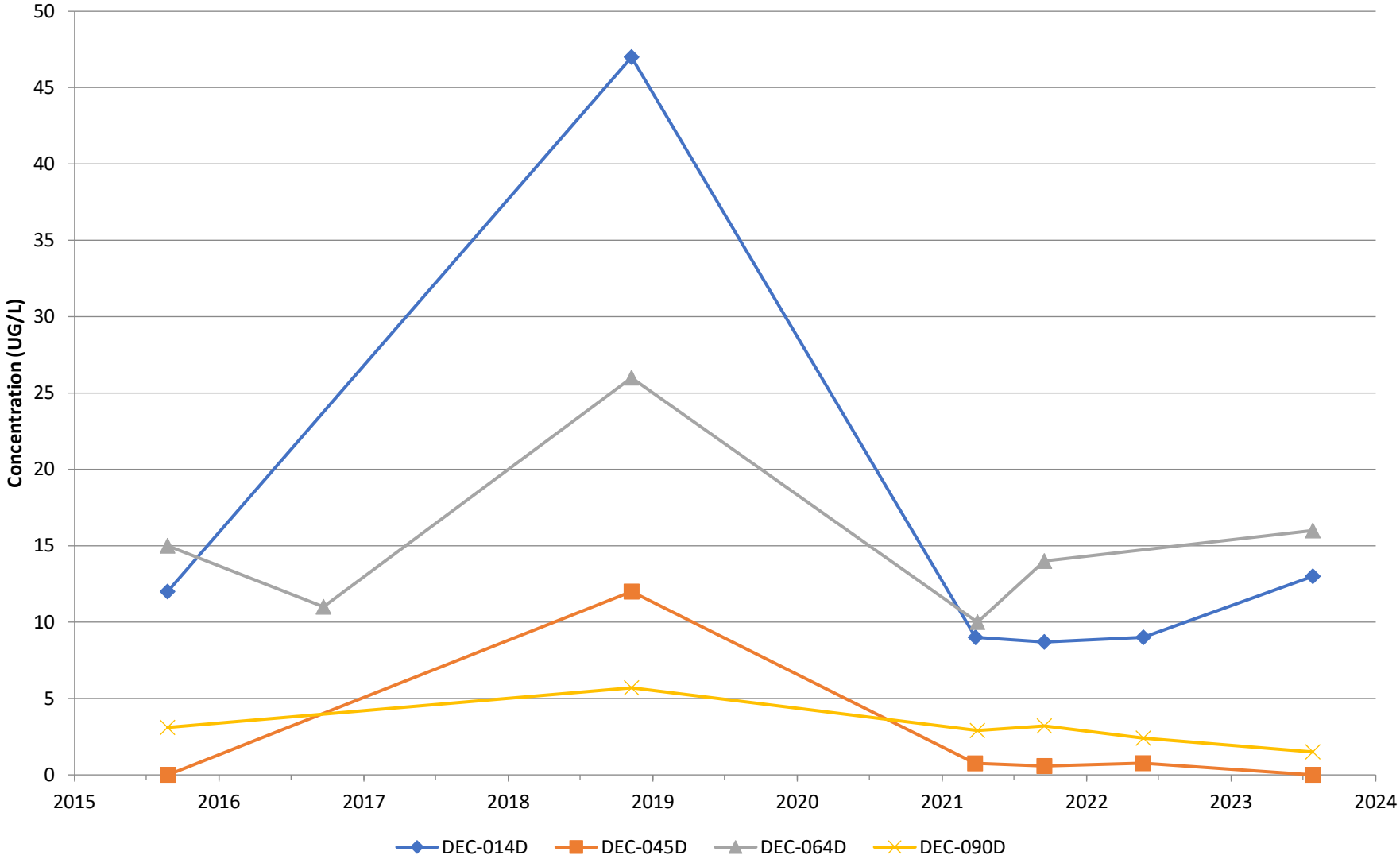

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Figure 9 - PCE E of Vand Deep.xlsx, Tetrachloroethene-plot, 2/9/2024

Figure 10
Tetrachloroethene Concentration Trends in Wells North of Richardson Street

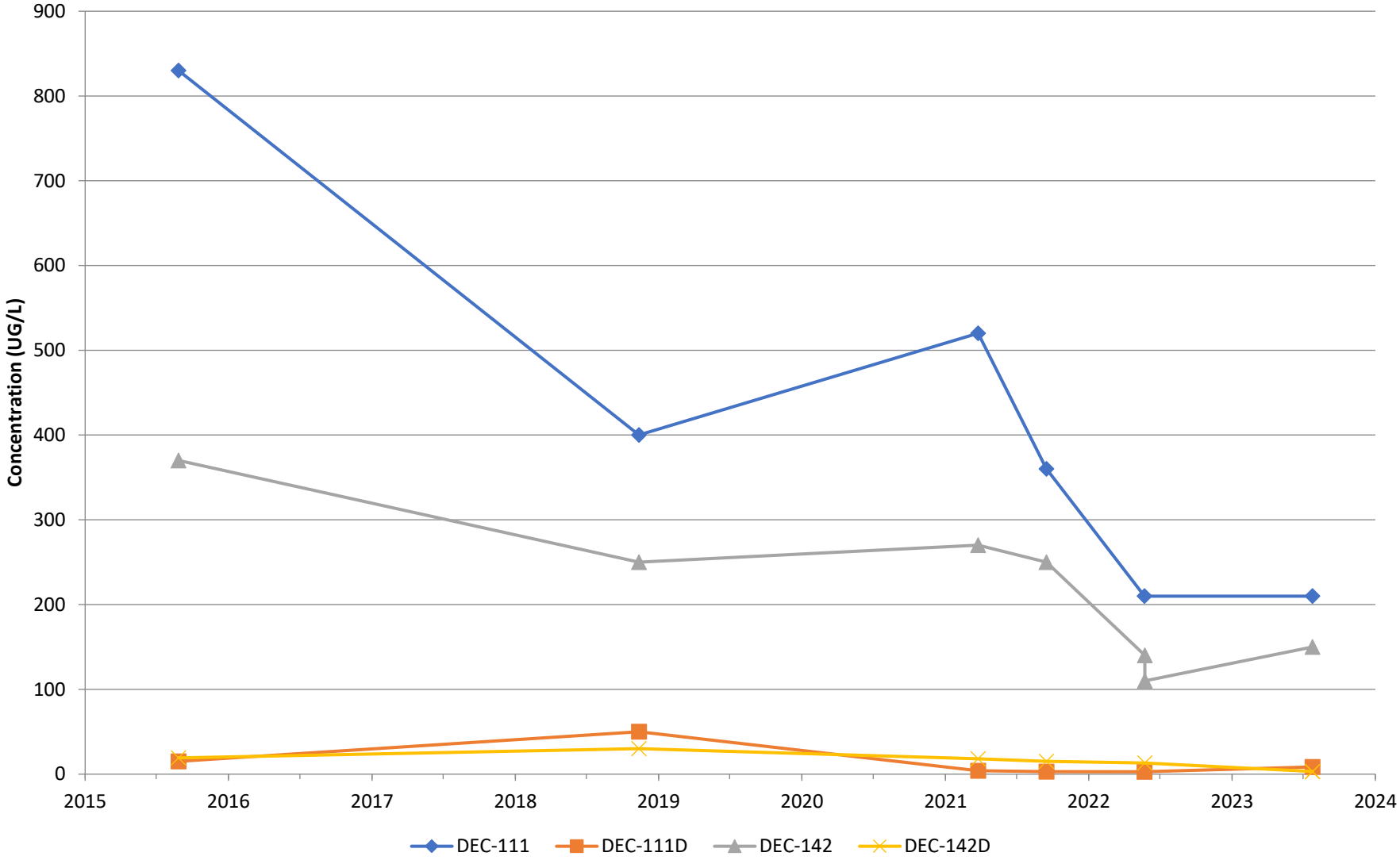

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Figure 10 - PCE N of Rich.xlsx, Tetrachloroethene-plot, 2/12/2024

Figure 11
Tetrachloroethene Concentration Trends in Shallow Wells
Source Area

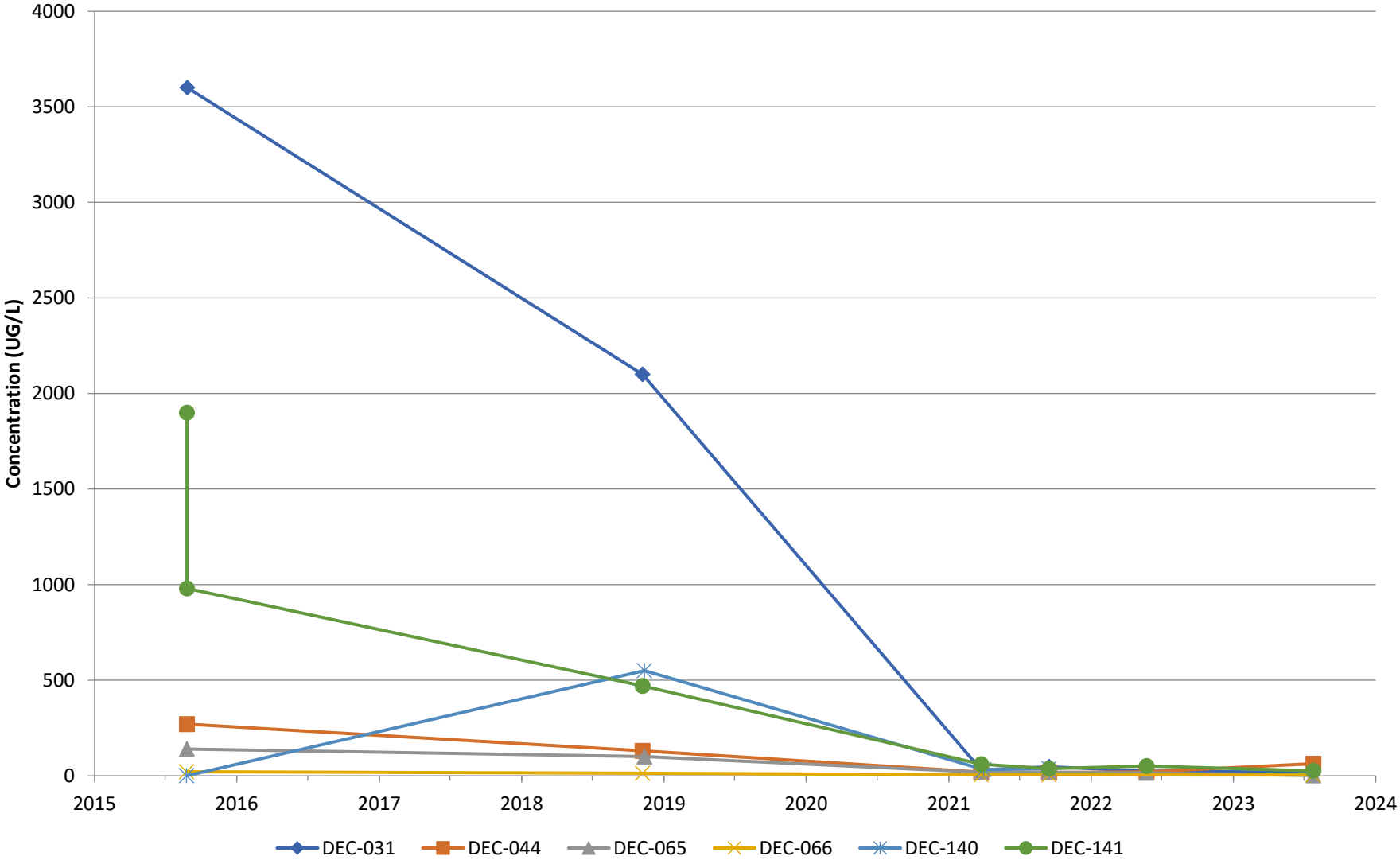

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Figure 11 - PCE Source Shallow.xlsx, Tetrachloroethene-plot, 2/9/2024

Figure 12
Tetrachloroethene Concentration Trends in Deep Wells
Source Area

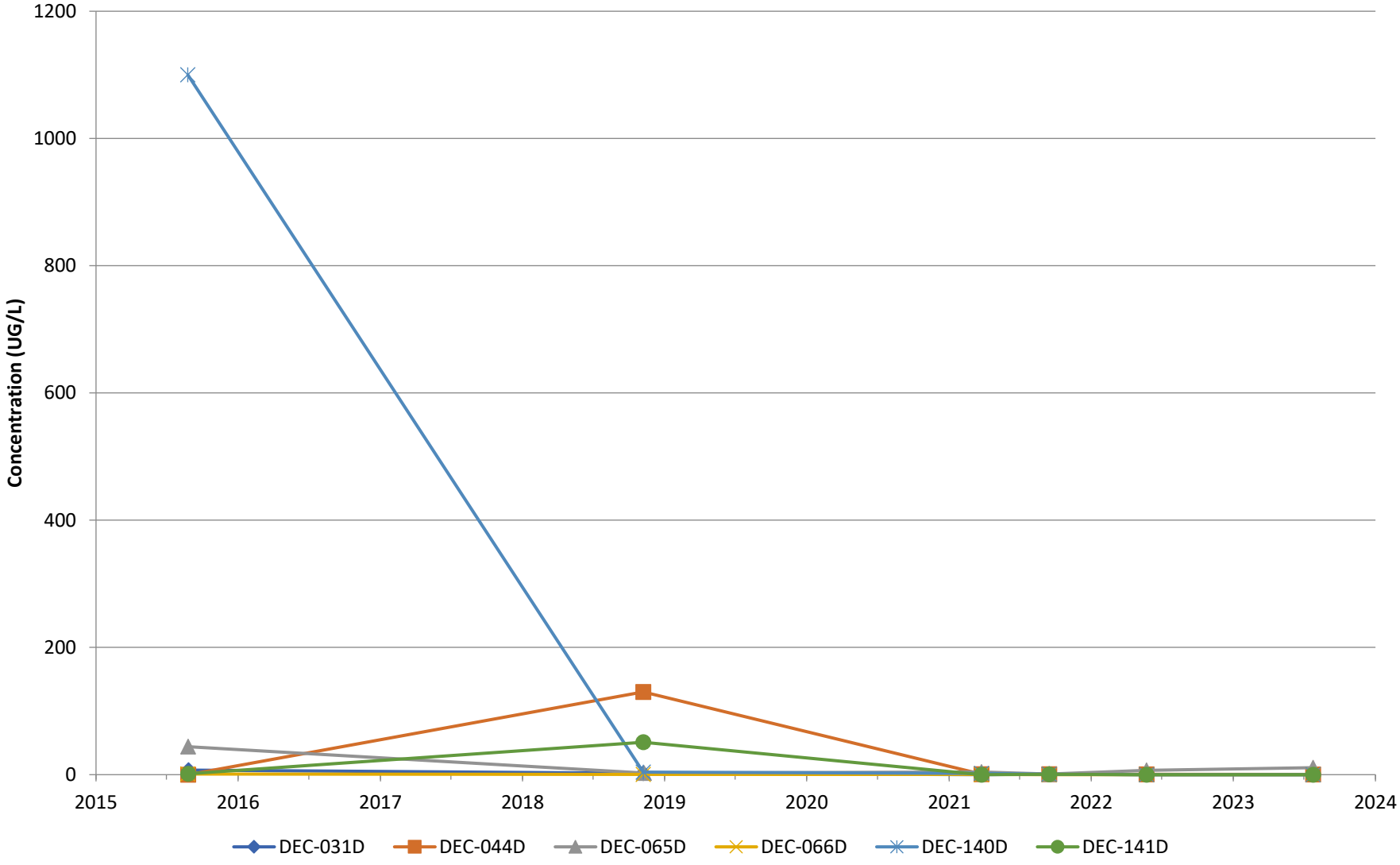

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Figure 12 - PCE Source Deep.xlsx, Tetrachloroethene-plot, 2/9/2024

Figure 13
Tetrachloroethene Concentration Trend in Top of Clay Well DEC-031TC
Source Area

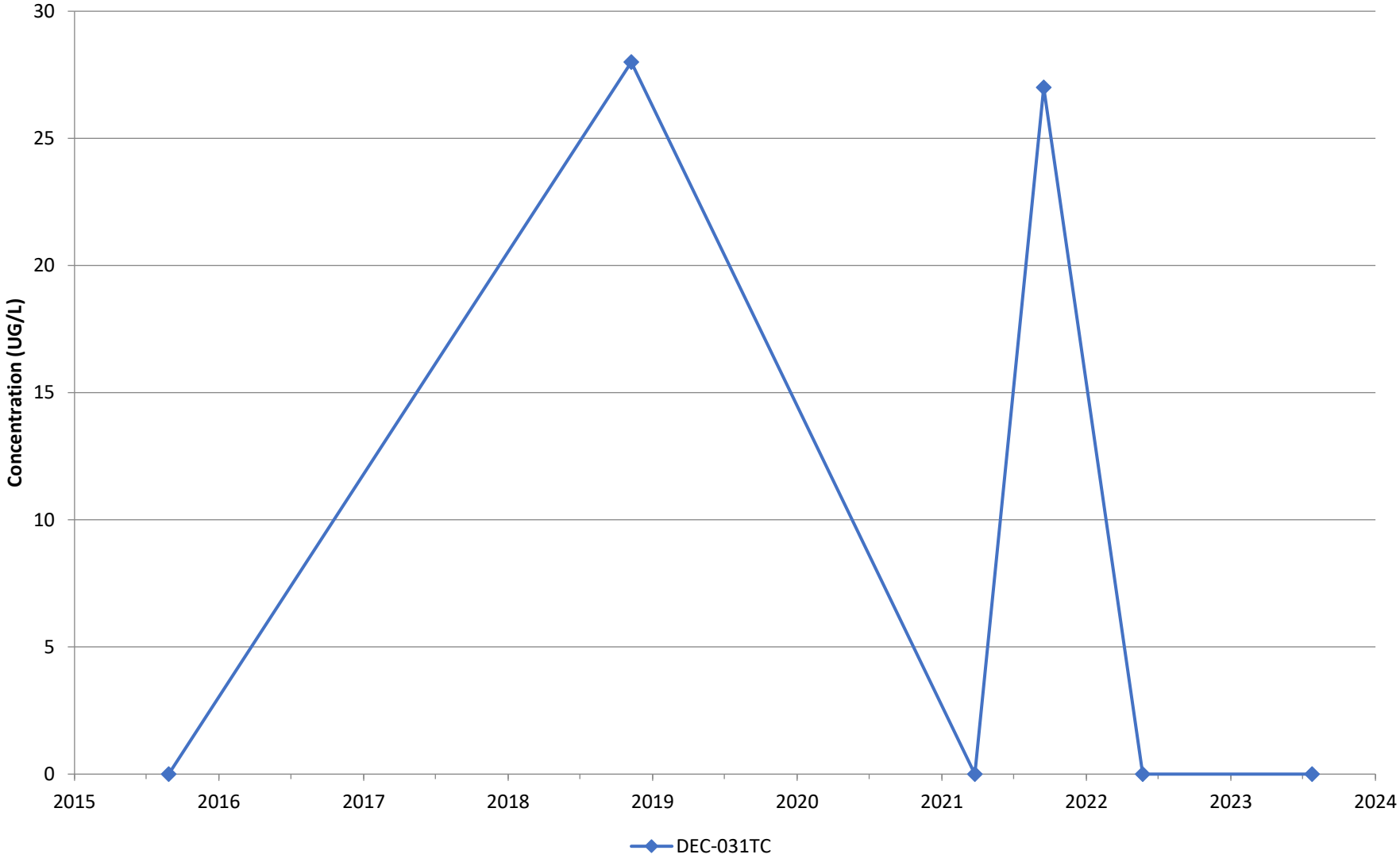

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Figure 13 - PCE Source TC.xlsx, Tetrachloroethene-plot, 2/9/2024

TABLES

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE EFF	SVE EFF	SVE EFF	SVE EFF	SVE EFF
Sample ID		EFF	EFF	EFFLUENT	SYS EFF	EFF
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/13/19	08/15/19	09/03/19	10/23/19	10/21/20
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	NA	NA	NA	NA	NA
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3					
1,2-Dichloroethene (trans)	UG/M3					
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3	NA	NA	NA	NA	NA
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3	NA	NA	NA	NA	NA
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Chloroethane	UG/M3					
Chloroform	UG/M3	NA	NA	NA	NA	NA
Chloromethane	UG/M3	NA	NA	NA	NA	NA
Cyclohexane	UG/M3	NA	NA	NA	NA	NA
Dichlorodifluoromethane	UG/M3	NA	NA	NA	NA	NA
Ethanol	UG/M3	NA	NA	NA	NA	NA
Ethyl acetate	UG/M3	NA	NA	NA	NA	NA
Ethylbenzene	UG/M3	NA	NA	NA	NA	NA
Isopropyl alcohol	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE EFF	SVE EFF	SVE EFF	SVE EFF	SVE EFF
Sample ID		EFF	EFF	EFFLUENT	SYS EFF	EFF
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		08/13/19	08/15/19	09/03/19	10/23/19	10/21/20
Parameter	Units					
Volatile Organic Compounds						
Methylene chloride	UG/M3	NA	NA	NA	NA	NA
Naphthalene	UG/M3	NA	NA	NA	NA	NA
n-Heptane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3		360			9.6
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	NA	NA	NA	NA	NA
Trichloroethene	UG/M3					
Trichlorofluoromethane	UG/M3	NA	NA	NA	NA	NA
Vinyl chloride	UG/M3	7.3	3.7		3.4	1.1
m&p-Xylene	UG/M3	NA	NA	NA	NA	NA
o-Xylene	UG/M3	NA	NA	NA	NA	NA
Total Volatile Organic Compounds	UG/M3	7.3	363.7	ND	3.4	10.7

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE EFF	SVE EFF	SVE INF	SVE INF	SVE INF
Sample ID		EFFLUENT	EFFLUENT	INF	INF	INFLUENT
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/27/21	07/19/23	08/13/19	08/15/19	09/03/19
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3		2.3			
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	NA	0.32 J	NA	NA	NA
1,1-Dichloroethane	UG/M3	1.3	4.9			
1,1-Dichloroethene	UG/M3	11	2.8			
1,2,4-Trimethylbenzene	UG/M3	NA	0.52	NA	NA	NA
1,2-Dichloroethane	UG/M3		0.40 J			
1,2-Dichloroethene (cis)	UG/M3	38	310	2,600	1,200	
1,2-Dichloroethene (trans)	UG/M3	1.8	8.5			
2-Hexanone	UG/M3	NA	0.23 J	NA	NA	NA
4-Methyl-2-pentanone	UG/M3	NA	0.49	NA	NA	NA
Acetone	UG/M3	NA	19	NA	NA	NA
Benzene	UG/M3	NA	0.18 J	NA	NA	NA
Carbon disulfide	UG/M3	NA	2.3 J	NA	NA	NA
Chloroethane	UG/M3	0.38	0.17 J			
Chloroform	UG/M3	NA	62	NA	NA	NA
Chloromethane	UG/M3	NA	0.87	NA	NA	NA
Cyclohexane	UG/M3	NA	1.4	NA	NA	NA
Dichlorodifluoromethane	UG/M3	NA	3.0	NA	NA	NA
Ethanol	UG/M3	NA	10	NA	NA	NA
Ethyl acetate	UG/M3	NA	14	NA	NA	NA
Ethylbenzene	UG/M3	NA	0.30 J	NA	NA	NA
Isopropyl alcohol	UG/M3	NA	8.0 J	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3	NA	61	NA	NA	NA

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE EFF	SVE EFF	SVE INF	SVE INF	SVE INF
Sample ID		EFFLUENT	EFFLUENT	INF	INF	INFLUENT
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/27/21	07/19/23	08/13/19	08/15/19	09/03/19
Parameter	Units					
Volatile Organic Compounds						
Methylene chloride	UG/M3	NA	8.3	NA	NA	NA
Naphthalene	UG/M3	NA	0.95	NA	NA	NA
n-Heptane	UG/M3	NA	0.52	NA	NA	NA
Styrene	UG/M3	NA	0.33 J	NA	NA	NA
Tetrachloroethene	UG/M3	27	1.1	1,500,000	990,000	560,000 D
Tetrahydrofuran	UG/M3	NA	39	NA	NA	NA
Toluene	UG/M3	NA	2.6	NA	NA	NA
Trichloroethene	UG/M3	0.30		4,500	2,200	2,200
Trichlorofluoromethane	UG/M3	NA	3.8	NA	NA	NA
Vinyl chloride	UG/M3	0.54	0.25 J			
m&p-Xylene	UG/M3	NA	0.65 J	NA	NA	NA
o-Xylene	UG/M3	NA	0.28 J	NA	NA	NA
Total Volatile Organic Compounds	UG/M3	80.32	570.46	1,507,100	993,400	562,200

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE INF	SVE INF	SVE INF	SVE INF	SVE INF
Sample ID		INF	SYS INF	SYSTEM INF	INF	INFLUENT
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/10/19	10/23/19	12/18/19	10/21/20	09/27/21
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	NA	NA	NA	NA	NA
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3	NA	NA	NA	NA	NA
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3			850	520	260
1,2-Dichloroethene (trans)	UG/M3					
2-Hexanone	UG/M3	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3	NA	NA	NA	NA	NA
Acetone	UG/M3	NA	NA	NA	NA	NA
Benzene	UG/M3	NA	NA	NA	NA	NA
Carbon disulfide	UG/M3	NA	NA	NA	NA	NA
Chloroethane	UG/M3					
Chloroform	UG/M3	NA	NA	NA	NA	NA
Chloromethane	UG/M3	NA	NA	NA	NA	NA
Cyclohexane	UG/M3	NA	NA	NA	NA	NA
Dichlorodifluoromethane	UG/M3	NA	NA	NA	NA	NA
Ethanol	UG/M3	NA	NA	NA	NA	NA
Ethyl acetate	UG/M3	NA	NA	NA	NA	NA
Ethylbenzene	UG/M3	NA	NA	NA	NA	NA
Isopropyl alcohol	UG/M3	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE INF	SVE INF	SVE INF	SVE INF	SVE INF
Sample ID		INF	SYS INF	SYSTEM INF	INF	INFLUENT
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/10/19	10/23/19	12/18/19	10/21/20	09/27/21
Parameter	Units					
Volatile Organic Compounds						
Methylene chloride	UG/M3	NA	NA	NA	NA	NA
Naphthalene	UG/M3	NA	NA	NA	NA	NA
n-Heptane	UG/M3	NA	NA	NA	NA	NA
Styrene	UG/M3	NA	NA	NA	NA	NA
Tetrachloroethene	UG/M3	6,600	660,000	400,000 D	89,000	54,000
Tetrahydrofuran	UG/M3	NA	NA	NA	NA	NA
Toluene	UG/M3	NA	NA	NA	NA	NA
Trichloroethene	UG/M3	14	2,000	2,000	730	490
Trichlorofluoromethane	UG/M3	NA	NA	NA	NA	NA
Vinyl chloride	UG/M3					
m&p-Xylene	UG/M3	NA	NA	NA	NA	NA
o-Xylene	UG/M3	NA	NA	NA	NA	NA
Total Volatile Organic Compounds	UG/M3	6,614	662,000	402,850	90,250	54,750

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE INF	SVE MID	SVE MID	SVE MID	SVE MID
Sample ID		INFLUENT	MID	MID	MID	MID
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/19/23	08/13/19	08/15/19	09/03/19	09/10/19
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/M3					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3		NA	NA	NA	NA
1,1-Dichloroethane	UG/M3					
1,1-Dichloroethene	UG/M3					
1,2,4-Trimethylbenzene	UG/M3		NA	NA	NA	NA
1,2-Dichloroethane	UG/M3					
1,2-Dichloroethene (cis)	UG/M3	160				
1,2-Dichloroethene (trans)	UG/M3					
2-Hexanone	UG/M3		NA	NA	NA	NA
4-Methyl-2-pentanone	UG/M3		NA	NA	NA	NA
Acetone	UG/M3		NA	NA	NA	NA
Benzene	UG/M3		NA	NA	NA	NA
Carbon disulfide	UG/M3		NA	NA	NA	NA
Chloroethane	UG/M3					
Chloroform	UG/M3	59 J	NA	NA	NA	NA
Chloromethane	UG/M3		NA	NA	NA	NA
Cyclohexane	UG/M3	36 J	NA	NA	NA	NA
Dichlorodifluoromethane	UG/M3		NA	NA	NA	NA
Ethanol	UG/M3		NA	NA	NA	NA
Ethyl acetate	UG/M3		NA	NA	NA	NA
Ethylbenzene	UG/M3		NA	NA	NA	NA
Isopropyl alcohol	UG/M3		NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/M3		NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE INF	SVE MID	SVE MID	SVE MID	SVE MID
Sample ID		INFLUENT	MID	MID	MID	MID
Matrix		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/19/23	08/13/19	08/15/19	09/03/19	09/10/19
Parameter	Units					
Volatile Organic Compounds						
Methylene chloride	UG/M3		NA	NA	NA	NA
Naphthalene	UG/M3		NA	NA	NA	NA
n-Heptane	UG/M3		NA	NA	NA	NA
Styrene	UG/M3		NA	NA	NA	NA
Tetrachloroethene	UG/M3	37,000		26	30	
Tetrahydrofuran	UG/M3		NA	NA	NA	NA
Toluene	UG/M3		NA	NA	NA	NA
Trichloroethene	UG/M3	300				
Trichlorofluoromethane	UG/M3		NA	NA	NA	NA
Vinyl chloride	UG/M3		4.9	4.0		4.0
m&p-Xylene	UG/M3		NA	NA	NA	NA
o-Xylene	UG/M3		NA	NA	NA	NA
Total Volatile Organic Compounds	UG/M3	37,555	4.9	30	30	4

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE MID	SVE MID	SVE MID
Sample ID		SYS MID	MIDFLUENT	MIDFLUENT
Matrix		Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-
Date Sampled		10/23/19	09/27/21	07/19/23
Parameter	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/M3			
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/M3	NA	NA	
1,1-Dichloroethane	UG/M3			
1,1-Dichloroethene	UG/M3			
1,2,4-Trimethylbenzene	UG/M3	NA	NA	
1,2-Dichloroethane	UG/M3			
1,2-Dichloroethene (cis)	UG/M3		310	160
1,2-Dichloroethene (trans)	UG/M3			
2-Hexanone	UG/M3	NA	NA	
4-Methyl-2-pentanone	UG/M3	NA	NA	
Acetone	UG/M3	NA	NA	
Benzene	UG/M3	NA	NA	
Carbon disulfide	UG/M3	NA	NA	
Chloroethane	UG/M3			
Chloroform	UG/M3	NA	NA	53 J
Chloromethane	UG/M3	NA	NA	
Cyclohexane	UG/M3	NA	NA	
Dichlorodifluoromethane	UG/M3	NA	NA	
Ethanol	UG/M3	NA	NA	
Ethyl acetate	UG/M3	NA	NA	
Ethylbenzene	UG/M3	NA	NA	
Isopropyl alcohol	UG/M3	NA	NA	
Methyl ethyl ketone (2-Butanone)	UG/M3	NA	NA	

Flags assigned during chemistry validation are shown.

Empty cell - Not Detected. ND- Not Detected
D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 1
SVE SYSTEM ANALYTICAL RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID		SVE MID	SVE MID	SVE MID
Sample ID		SYS MID	MIDFLUENT	MIDFLUENT
Matrix		Soil Gas	Soil Gas	Soil Gas
Depth Interval (ft)		-	-	-
Date Sampled		10/23/19	09/27/21	07/19/23
Parameter	**Units**			
Volatile Organic Compounds				
Methylene chloride	UG/M3	NA	NA	
Naphthalene	UG/M3	NA	NA	
n-Heptane	UG/M3	NA	NA	
Styrene	UG/M3	NA	NA	
Tetrachloroethene	UG/M3	5.8	16,000	25,000
Tetrahydrofuran	UG/M3	NA	NA	
Toluene	UG/M3	NA	NA	
Trichloroethene	UG/M3		2,100	200
Trichlorofluoromethane	UG/M3	NA	NA	
Vinyl chloride	UG/M3	2.7		
m&p-Xylene	UG/M3	NA	NA	
o-Xylene	UG/M3	NA	NA	
Total Volatile Organic Compounds	UG/M3	8.5	18,410	25,413

Flags assigned during chemistry validation are shown.

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D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 2
Former Klink Cosmo Cleaners
Estimate of VOC Mass Removal During SVE Operation

Date	Influent VOC Concentration[1] ($\mu g/m^3$)	System Flow Rate (ft^3/min)	Influent Flow Total (ft^3)	Operating Duration (min)	Mass Removed (lbs)	Removal Rate (lbs/min)
8/13/2019	**1,507,100**	n/a	0	0	0	0
8/20/2019	777,800	214	1,649,599	7,708	80.17	0.0104
8/27/2019	777,800	213	1,727,263	365	3.77	0.0104
9/3/2019	**562,200**	212	3,863,040	10,074	75.03	0.0074
9/9/2019	284,407	216.8	4,239,750	1,738	6.69	0.0039
9/10/2019	**6,614**	210	4,495,089	1,216	0.11	0.0001
9/17/2019	334,307	219	4,606,438	508	2.33	0.0046
9/24/2019	334,307	213.7	6,813,594	10,328	46.11	0.0045
10/2/2019	334,307	211	9,252,031	11,557	50.94	0.0044
10/8/2019	334,307	218.8	11,125,775	8,564	39.14	0.0046
10/14/2019	334,307	216	12,985,670	8,611	38.85	0.0045
10/22/2019	334,307	215	15,497,699	11,684	52.48	0.0045
10/22/2019	334,307	212	15,533,033	167	0.74	0.0044
10/23/2019	**662,000**	209	15,759,636	1,084	9.37	0.0086
11/13/2019	532,425	211	22,132,584	30,204	212.03	0.0070
12/5/2019	532,425	206	28,826,446	32,494	222.70	0.0069
12/9/2019	532,425	213	30,017,603	5,592	39.63	0.0071
12/18/2019	**402,850**	208	32,759,791	13,184	69.03	0.0052
1/7/2020	246,550	212	38,819,715	28,585	93.36	0.0033
1/30/2020	246,550	211.2	45,672,594	32,447	105.58	0.0033
2/20/2020	246,550	212	52,272,208	31,130	101.67	0.0033
10/21/2020	**90,250**	192.5	79,269,465	140,245	152.25	0.0011
2/23/2021	72,500	194.2	114,652,506	182,199	160.30	0.0009
3/9/2021	72,500	196.8	118,705,762	20,596	18.36	0.0009
4/5/2021	72,500	198.7	126,453,613	38,993	35.10	0.0009
5/3/2021	72,500	195.4	134,596,435	41,673	36.89	0.0009
6/4/2021	72,500	190.1	143,665,627	47,707	41.09	0.0009
7/15/2021	72,500	191.8	154,392,985	55,930	48.60	0.0009
8/9/2021	72,500	192.8	161,287,473	35,760	31.23	0.0009
9/27/2021	**54,750**	195	174,899,820	69,807	46.57	0.0007
12/9/2021	46,153	192.1	194,845,561	103,830	57.52	0.0006
2/3/2022	46,153	198.2	197,938,712	15,606	8.92	0.0006
3/1/2022	46,153	194.6	205,182,502	37,224	20.89	0.0006
4/6/2022	46,153	191.8	215,198,139	52,219	28.88	0.0006
7/28/2022	46,153	188.2	246,782,901	167,826	91.09	0.0005
8/16/2022	46,153	189.9	252,007,609	27,513	15.07	0.0005
9/7/2022	46,153	194.1	258,043,942	31,099	17.41	0.0006
10/6/2022	46,153	194.9	266,132,091	41,499	23.33	0.0006
11/10/2022	46,153	196.4	275,921,737	49,845	28.23	0.0006
12/21/2022	46,153	197.4	287,408,587	58,191	33.13	0.0006
1/12/2023	46,153	194.3	293,577,137	31,748	17.79	0.0006
3/2/2023	46,153	193	307,397,646	71,609	39.86	0.0006

TABLE 2
Former Klink Cosmo Cleaners
Estimate of VOC Mass Removal During SVE Operation

Date	Influent VOC Concentration[1] ($\mu g/m^3$)	System Flow Rate (ft^3/min)	Influent Flow Total (ft^3)	Operating Duration (min)	Mass Removed (lbs)	Removal Rate (lbs/min)
3/27/2023	46,153	196.1	314,459,711	36,013	20.37	0.0006
4/26/2023	46,153	202.3	322,964,411	42,040	24.53	0.0006
5/16/2023	46,153	190.9	328,727,723	30,190	16.62	0.0006
7/6/2023	46,153	189.6	329,076,811	1,841	1.01	0.0005
7/19/2023	**37,555**	190	332,559,555	18,330	8.17	0.0004
8/11/2023	37,555	192.5	338,860,211	32,731	14.79	0.0005
9/12/2023	37,555	193.4	347,777,651	46,109	20.93	0.0005
11/2/2023	37,555	206.5	362,703,498	72,280	35.03	0.0005
11/29/2023	37,555	204.6	370,589,142	38,542	18.51	0.0005
12/21/2023	37,555	204.2	377,036,838	31,575	15.13	0.0005
2/6/2024	37,555	201.9	390,714,965	67,747	32.10	0.0005
			TOTAL	**1,985,756**	**2,409.40**	

1. Actrual Influent VOC Concentrations are shown in Bold. Between sampling events, an average concentration is used. From 8/11/2023 onward, the most recent analytical data from 7/19/2023 is used.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014D	DEC-014D	DEC-014D	DEC-014D	DEC-014D
Sample ID			DEC-014D	DEC-014D	DEC-014D	DEC-014D	DEC-014D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/24/15	11/08/18	03/26/21	09/16/21	05/24/22
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		0.57	0.32 J	0.29 J	0.40 J
1,1-Dichloroethene	UG/L	5	1.2 J	1.4	1.2	0.89 J	0.98 J
1,2-Dichloroethane	UG/L	0.6		NA		0.54 J	
1,2-Dichloroethene (cis)	UG/L	5	1.5 J	1.6	1.5	1.4	1.4
1,2-Dichloroethene (trans)	UG/L	5		NA			
1,2-Dichloropropane	UG/L	1		NA			
1,4-Dioxane	UG/L	-		NA			
Chloroform	UG/L	7		0.36			
Cyclohexane	UG/L	-		NA		0.45 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50		NA			
Methyl tert-butyl ether	UG/L	10	1.0 J	0.55	NA	NA	NA
Methylene chloride	UG/L	5		NA	0.32 J		
Tetrachloroethene	UG/L	5	12	47	9.0	8.7	9.0
Toluene	UG/L	5		NA			
Trichloroethene	UG/L	5	2.7 J	1.8	2.3	1.8	2.1
Vinyl chloride	UG/L	2		NA			
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014D	DEC-014R	DEC-014R	DEC-014R	DEC-014R
Sample ID			DEC-014D	DEC-014R	DEC-014R	DUP-03	DEC-014R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/26/23	08/24/15	07/19/17	07/19/17	11/08/18
Parameter	**Units**	**Criteria***				Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5			NA	NA	
1,1-Dichloroethane	UG/L	5			NA	NA	NA
1,1-Dichloroethene	UG/L	5			NA	NA	NA
1,2-Dichloroethane	UG/L	0.6			NA	NA	NA
1,2-Dichloroethene (cis)	UG/L	5			NA	NA	5
1,2-Dichloroethene (trans)	UG/L	5			NA	NA	NA
1,2-Dichloropropane	UG/L	1			NA	NA	NA
1,4-Dioxane	UG/L	-				1.0	NA
Chloroform	UG/L	7	0.37 J		NA	NA	NA
Cyclohexane	UG/L	-			NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50			NA	NA	NA
Methyl tert-butyl ether	UG/L	10	NA		NA	NA	NA
Methylene chloride	UG/L	5			NA	NA	NA
Tetrachloroethene	UG/L	5	13	7,400	NA	NA	2,000
Toluene	UG/L	5			NA	NA	NA
Trichloroethene	UG/L	5	0.88 J		NA	NA	7.5
Vinyl chloride	UG/L	2			NA	NA	NA
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
#Error
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-014R	DEC-014R	DEC-014R	DEC-014R	DEC-031
Sample ID			DEC-014R	DEC-014R	DEC-014R	DEC-014R	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/26/21	09/16/21	05/24/22	07/26/23	08/27/15
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	1.3 J	2.8 J	1.6 JD		7.5
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dioxane	UG/L	-					
Chloroform	UG/L	7	1.1 J				2.1 J
Cyclohexane	UG/L	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50			84 JD		
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	
Methylene chloride	UG/L	5			2.9 JD		
Tetrachloroethene	UG/L	5	390	1,700	310 D	850	3,600 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	2.5	3.5 J	2.4 JD		12
Vinyl chloride	UG/L	2					
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031	DEC-031	DEC-031	DEC-031
Sample ID			DEC-031	DEC-031	DEC-031	DEC-031	DEC-031
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/19/17	11/07/18	03/25/21	09/15/21	05/23/22
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	NA				
1,1-Dichloroethane	UG/L	5	NA	NA			
1,1-Dichloroethene	UG/L	5	NA	NA	0.28 J		0.26 J
1,2-Dichloroethane	UG/L	0.6	NA	NA			
1,2-Dichloroethene (cis)	UG/L	5	NA	6.60	1.0	1.0	0.70 J
1,2-Dichloroethene (trans)	UG/L	5	NA	NA			
1,2-Dichloropropane	UG/L	1	NA	NA			
1,4-Dioxane	UG/L	-	0.43	NA			
Chloroform	UG/L	7	NA	NA			3.7
Cyclohexane	UG/L	-	NA	NA		0.37 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA			
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	NA
Methylene chloride	UG/L	5	NA	NA			
Tetrachloroethene	UG/L	5	NA	2,100	30	47	24
Toluene	UG/L	5	NA	NA			
Trichloroethene	UG/L	5	NA	8.10	2.6	2.0	2.7
Vinyl chloride	UG/L	2	NA	NA			
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Sample ID			DEC-031	DEC-031D	DEC-031D	DEC-031D	DEC-031D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/25/23	08/27/15	11/07/18	03/25/21	09/15/21
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5			0.59		
1,1-Dichloroethene	UG/L	5			0.47		
1,2-Dichloroethane	UG/L	0.6			74	680	500
1,2-Dichloroethene (cis)	UG/L	5	0.64 J	1.0 J	0.68		
1,2-Dichloroethene (trans)	UG/L	5			NA		
1,2-Dichloropropane	UG/L	1			NA	0.75 J	
1,4-Dioxane	UG/L	-			NA		
Chloroform	UG/L	7	0.18 J		NA		
Cyclohexane	UG/L	-			NA		0.85 J
Methyl ethyl ketone (2-Butanone)	UG/L	50			NA		
Methyl tert-butyl ether	UG/L	10	NA		0.73	NA	NA
Methylene chloride	UG/L	5			NA		
Tetrachloroethene	UG/L	5	18	7.2	2.1		0.84 J
Toluene	UG/L	5			NA		
Trichloroethene	UG/L	5	2.0		0.60		
Vinyl chloride	UG/L	2			NA		
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031D	DEC-031D	DEC-031TC	DEC-031TC	DEC-031TC
Sample ID			DEC-031D	DEC-031D	DEC-031TC	DEC-031TC	DEC-031TC
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/23/22	07/25/23	08/27/15	11/08/18	03/25/21
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5				NA	
1,1-Dichloroethene	UG/L	5				NA	
1,2-Dichloroethane	UG/L	0.6	520 D	240		NA	
1,2-Dichloroethene (cis)	UG/L	5				30	1.6
1,2-Dichloroethene (trans)	UG/L	5				NA	
1,2-Dichloropropane	UG/L	1		0.42 J		NA	
1,4-Dioxane	UG/L	-				NA	
Chloroform	UG/L	7				NA	
Cyclohexane	UG/L	-				NA	
Methyl ethyl ketone (2-Butanone)	UG/L	50	40 JD			NA	
Methyl tert-butyl ether	UG/L	10	NA	NA		NA	NA
Methylene chloride	UG/L	5	1.2 JD			NA	
Tetrachloroethene	UG/L	5				28	
Toluene	UG/L	5				NA	
Trichloroethene	UG/L	5				0.51	
Vinyl chloride	UG/L	2				NA	
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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NA - Not analyzed.

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TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-031TC	DEC-031TC	DEC-031TC	DEC-033R	DEC-033R
Sample ID			DEC-031TC	DEC-031TC	DEC-031TC	DEC-033R	DEC-033R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/15/21	05/23/22	07/25/23	08/25/15	12/15/15
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	57	1.8	0.72 J		
1,2-Dichloroethene (trans)	UG/L	5	0.27 J				
1,2-Dichloropropane	UG/L	1					
1,4-Dioxane	UG/L	-					
Chloroform	UG/L	7					
Cyclohexane	UG/L	-	2.1				
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	NA	NA	NA		
Methylene chloride	UG/L	5					
Tetrachloroethene	UG/L	5	27			2.7 J	
Toluene	UG/L	5					
Trichloroethene	UG/L	5	12				
Vinyl chloride	UG/L	2					
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-033R	DEC-033R	DEC-033R	DEC-033R	DEC-033R
Sample ID			DEC-033R	DEC-033R	DEC-033R	DEC-033R	DEC-033R
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/18	03/26/21	09/16/21	05/23/22	07/26/23
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	NA				
1,1-Dichloroethene	UG/L	5	NA				
1,2-Dichloroethane	UG/L	0.6	NA				
1,2-Dichloroethene (cis)	UG/L	5	NA				
1,2-Dichloroethene (trans)	UG/L	5	NA				
1,2-Dichloropropane	UG/L	1	NA				
1,4-Dioxane	UG/L	-	NA				
Chloroform	UG/L	7	NA				
Cyclohexane	UG/L	-	NA				
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA				
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	NA
Methylene chloride	UG/L	5	NA				
Tetrachloroethene	UG/L	5	NA				
Toluene	UG/L	5	NA				
Trichloroethene	UG/L	5	NA				
Vinyl chloride	UG/L	2	NA				
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044	DEC-044	DEC-044	DEC-044
Sample ID			DEC-044	DEC-044	DEC-044	DEC-044	DEC-044
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/26/15	11/07/18	03/25/21	09/15/21	05/23/22
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		NA			
1,1-Dichloroethene	UG/L	5		NA			
1,2-Dichloroethane	UG/L	0.6		NA			
1,2-Dichloroethene (cis)	UG/L	5		0.30	0.32 J	0.38 J	0.28 J
1,2-Dichloroethene (trans)	UG/L	5		NA			
1,2-Dichloropropane	UG/L	1		NA			
1,4-Dioxane	UG/L	-		NA			
Chloroform	UG/L	7		3.2	1.5	1.8	1.2 J
Cyclohexane	UG/L	-		NA		0.50 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50		NA			
Methyl tert-butyl ether	UG/L	10		NA	NA	NA	NA
Methylene chloride	UG/L	5		NA			
Tetrachloroethene	UG/L	5	270 D	130	19	17	20
Toluene	UG/L	5		NA			
Trichloroethene	UG/L	5	3.5 J	1.8	2.2	1.8	1.9
Vinyl chloride	UG/L	2		NA			
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044	DEC-044D	DEC-044D	DEC-044D	DEC-044D
Sample ID			DEC-044	DEC-044D	DEC-044D	DEC-044D	DEC-044D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/25/23	08/26/15	11/07/18	03/25/21	09/15/21
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5			NA		
1,1-Dichloroethene	UG/L	5			NA		
1,2-Dichloroethane	UG/L	0.6		110	32	100	53
1,2-Dichloroethene (cis)	UG/L	5	1.0		1.4		
1,2-Dichloroethene (trans)	UG/L	5			NA		
1,2-Dichloropropane	UG/L	1			NA		
1,4-Dioxane	UG/L	-			NA		
Chloroform	UG/L	7	0.41 J		NA		
Cyclohexane	UG/L	-			NA		0.54 J
Methyl ethyl ketone (2-Butanone)	UG/L	50			NA		
Methyl tert-butyl ether	UG/L	10	NA		NA	NA	NA
Methylene chloride	UG/L	5			NA		
Tetrachloroethene	UG/L	5	63		130	0.67 J	0.68 J
Toluene	UG/L	5			1.2		
Trichloroethene	UG/L	5	2.2		1	0.92 J	0.47 J
Vinyl chloride	UG/L	2			NA		
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-044D	DEC-044D	DEC-045	DEC-045	DEC-045
Sample ID			DEC-044D	DEC-044D	DEC-045	DEC-045	DEC-045
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/23/22	07/25/23	08/25/15	11/08/18	03/25/21
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	0.23 J	0.30 J		NA	
1,1-Dichloroethene	UG/L	5				NA	
1,2-Dichloroethane	UG/L	0.6	66	32		0.92	0.71 J
1,2-Dichloroethene (cis)	UG/L	5			1.4 J	0.91	0.47 J
1,2-Dichloroethene (trans)	UG/L	5				NA	
1,2-Dichloropropane	UG/L	1				NA	
1,4-Dioxane	UG/L	-				NA	
Chloroform	UG/L	7				NA	
Cyclohexane	UG/L	-				NA	
Methyl ethyl ketone (2-Butanone)	UG/L	50				NA	
Methyl tert-butyl ether	UG/L	10	NA	NA		NA	NA
Methylene chloride	UG/L	5				NA	
Tetrachloroethene	UG/L	5	0.60 J	0.40 J	6.3	14	5.5
Toluene	UG/L	5				NA	
Trichloroethene	UG/L	5	0.58 J	0.39 J	1.7 J	1.5	1.4
Vinyl chloride	UG/L	2				NA	
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-045	DEC-045	DEC-045	DEC-045D	DEC-045D
Sample ID			DEC-045	DEC-045	DEC-045	DEC-045D	DEC-045D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/16/21	05/23/22	07/26/23	08/25/15	11/08/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					NA
1,1-Dichloroethene	UG/L	5					NA
1,2-Dichloroethane	UG/L	0.6				11	17
1,2-Dichloroethene (cis)	UG/L	5		0.27 J			0.64
1,2-Dichloroethene (trans)	UG/L	5					NA
1,2-Dichloropropane	UG/L	1					NA
1,4-Dioxane	UG/L	-					NA
Chloroform	UG/L	7					NA
Cyclohexane	UG/L	-	0.41 J				NA
Methyl ethyl ketone (2-Butanone)	UG/L	50					NA
Methyl tert-butyl ether	UG/L	10	NA	NA	NA		NA
Methylene chloride	UG/L	5					NA
Tetrachloroethene	UG/L	5	3.9	3.3	1.8		12
Toluene	UG/L	5					NA
Trichloroethene	UG/L	5	0.69 J	0.78 J			NA
Vinyl chloride	UG/L	2					NA
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-045D	DEC-045D	DEC-045D	DEC-045D	DEC-064
Sample ID			DEC-045D	DEC-045D	DEC-045D	DEC-045D	DEC-064
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/25/21	09/16/21	05/23/22	07/26/23	08/24/15
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					
1,1-Dichloroethene	UG/L	5					
1,2-Dichloroethane	UG/L	0.6	19				
1,2-Dichloroethene (cis)	UG/L	5	0.48 J			0.77 J	1.7 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dioxane	UG/L	-					
Chloroform	UG/L	7					5.4
Cyclohexane	UG/L	-		0.97 J			
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	
Methylene chloride	UG/L	5					
Tetrachloroethene	UG/L	5	0.75 J	0.58 J	0.76 J		11
Toluene	UG/L	5					
Trichloroethene	UG/L	5	0.49 J			1.0	4.1 J
Vinyl chloride	UG/L	2					
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

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NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064	DEC-064	DEC-064	DEC-064
Sample ID			DEC-064	DEC-064	DEC-064	DEC-064	DUP
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/21/16	11/08/18	03/26/21	09/16/21	09/16/21
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		0.34		0.27 J	0.28 J
1,1-Dichloroethene	UG/L	5		NA			
1,2-Dichloroethane	UG/L	0.6		NA			
1,2-Dichloroethene (cis)	UG/L	5	1.2 J	1.4	0.68 J	0.77 J	0.83 J
1,2-Dichloroethene (trans)	UG/L	5		NA			
1,2-Dichloropropane	UG/L	1		NA			
1,4-Dioxane	UG/L	-		NA			
Chloroform	UG/L	7	5.0	4.2	3.1	2.8	2.8
Cyclohexane	UG/L	-		NA			
Methyl ethyl ketone (2-Butanone)	UG/L	50		NA			
Methyl tert-butyl ether	UG/L	10		NA	NA	NA	NA
Methylene chloride	UG/L	5		NA	0.34 J		
Tetrachloroethene	UG/L	5	12 J	62	14	14	14
Toluene	UG/L	5		NA			
Trichloroethene	UG/L	5	3.8 J	3.9	3.6	3.7	3.7
Vinyl chloride	UG/L	2		NA			
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Sample ID			DEC-064	DEC-064	DEC-064D	DEC-064D	DEC-064D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/24/22	07/26/23	08/24/15	09/21/16	11/08/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	0.33 J		1.7 J		0.41
1,1-Dichloroethene	UG/L	5			4.3 J	1.0	2.5
1,2-Dichloroethane	UG/L	0.6			3.6 J		0.70
1,2-Dichloroethene (cis)	UG/L	5	0.61 J	0.58 J	1.3 J		1.1
1,2-Dichloroethene (trans)	UG/L	5					NA
1,2-Dichloropropane	UG/L	1					NA
1,4-Dioxane	UG/L	-					NA
Chloroform	UG/L	7	3.4	3.1			NA
Cyclohexane	UG/L	-					NA
Methyl ethyl ketone (2-Butanone)	UG/L	50					NA
Methyl tert-butyl ether	UG/L	10	NA	NA			NA
Methylene chloride	UG/L	5					NA
Tetrachloroethene	UG/L	5	11	10	15	11 J	26
Toluene	UG/L	5					NA
Trichloroethene	UG/L	5	3.2	2.6	25	13 J	16
Vinyl chloride	UG/L	2					NA
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
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Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-064D	DEC-064D	DEC-064D	DEC-065	DEC-065
Sample ID			DEC-064D	DEC-064D	DEC-064D	DEC-065	DEC-065
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/31/21	09/16/21	07/26/23	08/26/15	11/12/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	0.30 J	0.68 J	0.16 J		0.41
1,1-Dichloroethane	UG/L	5	0.76 J	2.9	1.2		0.47
1,1-Dichloroethene	UG/L	5	1.9	13	3.9		1.3
1,2-Dichloroethane	UG/L	0.6	0.60 J	5.9	2.6		NA
1,2-Dichloroethene (cis)	UG/L	5	0.92 J	6.7	3.0		NA
1,2-Dichloroethene (trans)	UG/L	5			0.20 J		NA
1,2-Dichloropropane	UG/L	1					NA
1,4-Dioxane	UG/L	-					NA
Chloroform	UG/L	7	0.96 J	1.2	0.48 J		NA
Cyclohexane	UG/L	-		0.47 J			NA
Methyl ethyl ketone (2-Butanone)	UG/L	50					NA
Methyl tert-butyl ether	UG/L	10	NA	NA	NA		NA
Methylene chloride	UG/L	5					NA
Tetrachloroethene	UG/L	5	10	14	16	140	100
Toluene	UG/L	5					0.57
Trichloroethene	UG/L	5	16	41	67	2.3 J	4.6
Vinyl chloride	UG/L	2					NA
m&p-Xylene	UG/L	5	NA	NA	NA	NA	0.83

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065	DEC-065	DEC-065	DEC-065	DEC-065D
Sample ID			DEC-065	DEC-065	DEC-065	DEC-065	DEC-065D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/25/21	09/15/21	05/23/22	07/25/23	08/26/15
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					5.0 J
1,1-Dichloroethane	UG/L	5				0.39 J	7.5
1,1-Dichloroethene	UG/L	5					40
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5				0.98 J	18
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dioxane	UG/L	-					
Chloroform	UG/L	7					
Cyclohexane	UG/L	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	
Methylene chloride	UG/L	5					
Tetrachloroethene	UG/L	5	18	18	15	1.5	44
Toluene	UG/L	5					
Trichloroethene	UG/L	5			0.30 J	4.7	280 D
Vinyl chloride	UG/L	2					
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-065D	DEC-065D	DEC-065D	DEC-065D	DEC-065D
Sample ID			DEC-065D	DEC-065D	DEC-065D	DEC-065D	DEC-065D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/09/18	03/25/21	09/15/21	05/23/22	07/25/23
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5				0.34 J	
1,1-Dichloroethane	UG/L	5	1.2	13	11	10	
1,1-Dichloroethene	UG/L	5	2.2	9.0	6.7	6.4	
1,2-Dichloroethane	UG/L	0.6	NA	2.2	2.1	2.2	
1,2-Dichloroethene (cis)	UG/L	5	15	10	8.5	6.1	
1,2-Dichloroethene (trans)	UG/L	5	NA				
1,2-Dichloropropane	UG/L	1	NA				
1,4-Dioxane	UG/L	-	NA				
Chloroform	UG/L	7	NA			0.23 J	0.42 J
Cyclohexane	UG/L	-	NA		1.1		
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA				
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	NA
Methylene chloride	UG/L	5	NA				0.19 J
Tetrachloroethene	UG/L	5	2.5	4.1	0.97 J	6.8	11
Toluene	UG/L	5	0.45				
Trichloroethene	UG/L	5	1.4	44	30	65	0.43 J
Vinyl chloride	UG/L	2	NA	0.54 J	0.48 J	0.47 J	
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066	DEC-066	DEC-066	DEC-066	DEC-066
Sample ID			DEC-066	DEC-066	DEC-066	DEC-066	DEC-066
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/25/15	11/07/18	03/25/21	09/15/21	07/25/23
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		0.26			0.19 J
1,1-Dichloroethene	UG/L	5		NA			
1,2-Dichloroethane	UG/L	0.6		NA			
1,2-Dichloroethene (cis)	UG/L	5	1.2 J	0.59	0.52 J		0.23 J
1,2-Dichloroethene (trans)	UG/L	5		NA			
1,2-Dichloropropane	UG/L	1		NA			
1,4-Dioxane	UG/L	-		NA			
Chloroform	UG/L	7		NA			
Cyclohexane	UG/L	-		NA		0.57 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50		NA			
Methyl tert-butyl ether	UG/L	10		NA	NA	NA	NA
Methylene chloride	UG/L	5		NA	0.42 J		
Tetrachloroethene	UG/L	5	21	13	4.6	4.5	4.0
Toluene	UG/L	5		NA			
Trichloroethene	UG/L	5	2.3 J	1.5	1.4	0.69 J	0.93 J
Vinyl chloride	UG/L	2		NA			
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-066D	DEC-066D	DEC-066D	DEC-066D
Sample ID			DEC-066D	DEC-066D	DEC-066D	DEC-066D	DEC-066D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/25/15	11/07/18	03/25/21	09/15/21	05/23/22
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		NA			
1,1-Dichloroethene	UG/L	5		NA			
1,2-Dichloroethane	UG/L	0.6	2.4 J	31	80	70	69
1,2-Dichloroethene (cis)	UG/L	5		0.43	0.32 J	0.33 J	0.42 J
1,2-Dichloroethene (trans)	UG/L	5		NA			
1,2-Dichloropropane	UG/L	1		NA			
1,4-Dioxane	UG/L	-		NA			
Chloroform	UG/L	7		NA			
Cyclohexane	UG/L	-		NA		0.81 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50		NA			
Methyl tert-butyl ether	UG/L	10		0.62	NA	NA	NA
Methylene chloride	UG/L	5		NA			
Tetrachloroethene	UG/L	5	1.1 J	0.30	0.30 J		
Toluene	UG/L	5		NA			
Trichloroethene	UG/L	5		NA	0.48 J		0.28 J
Vinyl chloride	UG/L	2		NA			
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-066D	DEC-090	DEC-090	DEC-090	DEC-090
Sample ID			DEC-066D	DEC-090	DEC-090	DEC-090	DEC-090
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/25/23	08/24/15	11/08/18	03/26/21	09/16/21
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5			NA		
1,1-Dichloroethene	UG/L	5			NA		
1,2-Dichloroethane	UG/L	0.6	1.3		NA	0.55 J	
1,2-Dichloroethene (cis)	UG/L	5			1.3	1.2	0.72 J
1,2-Dichloroethene (trans)	UG/L	5			NA		
1,2-Dichloropropane	UG/L	1			NA		
1,4-Dioxane	UG/L	-			NA		
Chloroform	UG/L	7			NA		
Cyclohexane	UG/L	-			NA		
Methyl ethyl ketone (2-Butanone)	UG/L	50			NA		
Methyl tert-butyl ether	UG/L	10	NA		NA	NA	NA
Methylene chloride	UG/L	5			NA	0.33 J	
Tetrachloroethene	UG/L	5		880	100	110	48
Toluene	UG/L	5	0.35 J		NA		
Trichloroethene	UG/L	5			1.6	1.5	1.1
Vinyl chloride	UG/L	2			NA		
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090	DEC-090	DEC-090D	DEC-090D	DEC-090D
Sample ID			DEC-090	DEC-090	DEC-090D	DEC-090D	DEC-090D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/24/22	07/26/23	08/24/15	11/08/18	03/31/21
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5				NA	
1,1-Dichloroethene	UG/L	5				NA	
1,2-Dichloroethane	UG/L	0.6				16	3.2
1,2-Dichloroethene (cis)	UG/L	5	0.64 J	0.30 J		0.54	0.78 J
1,2-Dichloroethene (trans)	UG/L	5				NA	
1,2-Dichloropropane	UG/L	1				NA	
1,4-Dioxane	UG/L	-				NA	
Chloroform	UG/L	7				NA	
Cyclohexane	UG/L	-				NA	
Methyl ethyl ketone (2-Butanone)	UG/L	50				NA	
Methyl tert-butyl ether	UG/L	10	NA	NA	2.3 J	1.2	NA
Methylene chloride	UG/L	5				NA	
Tetrachloroethene	UG/L	5	42	18	3.1 J	5.7	2.9
Toluene	UG/L	5				NA	
Trichloroethene	UG/L	5	1.2	0.83 J		0.32	0.52 J
Vinyl chloride	UG/L	2				NA	
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-090D	DEC-090D	DEC-090D	DEC-111	DEC-111
Sample ID			DEC-090D	DEC-090D	DEC-090D	DEC-111	DEC-111
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/16/21	05/24/22	07/26/23	08/27/15	11/12/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					NA
1,1-Dichloroethene	UG/L	5					NA
1,2-Dichloroethane	UG/L	0.6	6.2	5.7	3.3		NA
1,2-Dichloroethene (cis)	UG/L	5	0.79 J	0.89 J	0.69 J	3.8 J	1.20
1,2-Dichloroethene (trans)	UG/L	5					NA
1,2-Dichloropropane	UG/L	1					NA
1,4-Dioxane	UG/L	-					NA
Chloroform	UG/L	7					NA
Cyclohexane	UG/L	-	0.54 J				NA
Methyl ethyl ketone (2-Butanone)	UG/L	50					NA
Methyl tert-butyl ether	UG/L	10	NA	NA	NA		NA
Methylene chloride	UG/L	5					NA
Tetrachloroethene	UG/L	5	3.2	2.4	1.5	830 D	400
Toluene	UG/L	5					NA
Trichloroethene	UG/L	5	0.46 J	0.52 J	0.31 J	8.9	3.9
Vinyl chloride	UG/L	2					NA
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-111	DEC-111	DEC-111	DEC-111	DEC-111D
Sample ID			DEC-111	DEC-111	DEC-111	DEC-111	DEC-111D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/25/21	09/15/21	05/23/22	07/25/23	08/27/15
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					6.2
1,1-Dichloroethane	UG/L	5					22
1,1-Dichloroethene	UG/L	5					48
1,2-Dichloroethane	UG/L	0.6					80
1,2-Dichloroethene (cis)	UG/L	5	8.3	5.6	3.4 JD	2.5	14
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dioxane	UG/L	-					
Chloroform	UG/L	7		0.86 J		0.56 J	
Cyclohexane	UG/L	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50			77 JD		
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	
Methylene chloride	UG/L	5			2.2 JD		
Tetrachloroethene	UG/L	5	520	360	210 D	210	15
Toluene	UG/L	5					
Trichloroethene	UG/L	5	7.5	4.8	3.5 JD	2.8	200
Vinyl chloride	UG/L	2					1.1 J
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-111D	DEC-111D	DEC-111D	DEC-111D	DEC-111D
Sample ID			DEC-111D	DEC-111D	DEC-111D	DEC-111D	DEC-111D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/12/18	03/25/21	09/15/21	05/23/22	07/25/23
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	3.8				
1,1-Dichloroethane	UG/L	5	25	27	20	22 D	10
1,1-Dichloroethene	UG/L	5	62	15	11	11 D	13
1,2-Dichloroethane	UG/L	0.6	62	340	550	470 D	950
1,2-Dichloroethene (cis)	UG/L	5	22	3.3	3.5	3.0 JD	15
1,2-Dichloroethene (trans)	UG/L	5	0.42				
1,2-Dichloropropane	UG/L	1	NA				
1,4-Dioxane	UG/L	-	43				
Chloroform	UG/L	7	0.50				
Cyclohexane	UG/L	-	NA				
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA			49 JD	
Methyl tert-butyl ether	UG/L	10	0.72	NA	NA	NA	NA
Methylene chloride	UG/L	5	NA				
Tetrachloroethene	UG/L	5	50	3.9	2.9	2.8 JD	8.4 J
Toluene	UG/L	5	NA				
Trichloroethene	UG/L	5	250	25	23	24 D	77
Vinyl chloride	UG/L	2	1	1.1	0.82 J		
m&p-Xylene	UG/L	5	0.30	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-140	DEC-140	DEC-140	DEC-140	DEC-140D
Sample ID			DEC-140	DEC-140	DEC-140	DEC-140	DEC-140D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/25/15	11/12/18	03/31/21	09/15/21	08/25/15
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5		NA			
1,1-Dichloroethene	UG/L	5		NA			
1,2-Dichloroethane	UG/L	0.6	43	NA			
1,2-Dichloroethene (cis)	UG/L	5		2.1	0.28 J	0.79 J	2.5 J
1,2-Dichloroethene (trans)	UG/L	5		NA			
1,2-Dichloropropane	UG/L	1		NA			
1,4-Dioxane	UG/L	-		NA			
Chloroform	UG/L	7		NA			
Cyclohexane	UG/L	-		NA		0.74 J	
Methyl ethyl ketone (2-Butanone)	UG/L	50		NA			
Methyl tert-butyl ether	UG/L	10		NA	NA	NA	
Methylene chloride	UG/L	5		NA			
Tetrachloroethene	UG/L	5		550	32	37	1,100 D
Toluene	UG/L	5		NA			
Trichloroethene	UG/L	5		3.3	0.86 J	1.6	4.3 J
Vinyl chloride	UG/L	2		NA			
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-140D	DEC-140D	DEC-140D	DEC-140D	DEC-140D
Sample ID			DEC-140D	DEC-140D	DEC-140D	DEC-140D	DEC-140D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/07/18	03/25/21	09/15/21	05/23/22	07/25/23
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	NA	0.27 J	0.35 J	0.30 J	0.36 J
1,1-Dichloroethene	UG/L	5	NA				
1,2-Dichloroethane	UG/L	0.6	17	37	59	22	15
1,2-Dichloroethene (cis)	UG/L	5	0.67	1.2		0.42 J	
1,2-Dichloroethene (trans)	UG/L	5	NA				
1,2-Dichloropropane	UG/L	1	NA				
1,4-Dioxane	UG/L	-	NA				
Chloroform	UG/L	7	NA				
Cyclohexane	UG/L	-	NA		1.5		
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA				
Methyl tert-butyl ether	UG/L	10	0.63	NA	NA	NA	NA
Methylene chloride	UG/L	5	NA				
Tetrachloroethene	UG/L	5	4	1.9	0.54 J		
Toluene	UG/L	5	NA				
Trichloroethene	UG/L	5	0.32	0.89 J			0.37 J
Vinyl chloride	UG/L	2	NA				
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-141	DEC-141	DEC-141	DEC-141	DEC-141
Sample ID			DEC-141	DEC-141 (DUP)	DEC-141	DEC-141	DEC-141
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/26/15	08/26/15	07/19/17	11/07/18	03/25/21
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5			NA		
1,1-Dichloroethane	UG/L	5			NA	NA	
1,1-Dichloroethene	UG/L	5			NA	NA	
1,2-Dichloroethane	UG/L	0.6			NA	0.44	
1,2-Dichloroethene (cis)	UG/L	5	6.3	6.5	NA	2.6	0.39 J
1,2-Dichloroethene (trans)	UG/L	5			NA	NA	
1,2-Dichloropropane	UG/L	1			NA	NA	
1,4-Dioxane	UG/L	-			2.4	NA	
Chloroform	UG/L	7	2.0 J	2.0 J	NA	1.9	1.2
Cyclohexane	UG/L	-			NA	NA	
Methyl ethyl ketone (2-Butanone)	UG/L	50			NA	NA	
Methyl tert-butyl ether	UG/L	10			NA	NA	NA
Methylene chloride	UG/L	5			NA	NA	
Tetrachloroethene	UG/L	5	980 DJ	1,900 DJ	NA	470	60
Toluene	UG/L	5			NA	NA	
Trichloroethene	UG/L	5	8.8	8.4	NA	3.6	1.5
Vinyl chloride	UG/L	2			NA	NA	
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

NA - Not analyzed.

Only Detected Results Reported.

([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-141	DEC-141	DEC-141	DEC-141D	DEC-141D
Sample ID			DEC-141	DEC-141	DEC-141	DEC-141D	DEC-141D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/15/21	05/23/22	07/25/23	08/26/15	11/07/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5					0.32
1,1-Dichloroethene	UG/L	5					NA
1,2-Dichloroethane	UG/L	0.6				110	38
1,2-Dichloroethene (cis)	UG/L	5	0.52 J	0.24 J	0.38 J		NA
1,2-Dichloroethene (trans)	UG/L	5					NA
1,2-Dichloropropane	UG/L	1					NA
1,4-Dioxane	UG/L	-					NA
Chloroform	UG/L	7	2.5	2.2	1.4 J		NA
Cyclohexane	UG/L	-					NA
Methyl ethyl ketone (2-Butanone)	UG/L	50					NA
Methyl tert-butyl ether	UG/L	10	NA	NA	NA		NA
Methylene chloride	UG/L	5					NA
Tetrachloroethene	UG/L	5	37	51	26	1.4 J	51
Toluene	UG/L	5					NA
Trichloroethene	UG/L	5	2.4	0.99 J	1.6		0.49
Vinyl chloride	UG/L	2					NA
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-141D	DEC-141D	DEC-141D	DEC-141D	DEC-142
Sample ID			DEC-141D	DEC-141D	DEC-141D	DEC-141D	DEC-142
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			03/25/21	09/15/21	05/23/22	07/25/23	08/27/15
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	0.33 J		0.30 J	0.28 J	
1,1-Dichloroethene	UG/L	5			0.20 J		
1,2-Dichloroethane	UG/L	0.6	60	29	25	18	
1,2-Dichloroethene (cis)	UG/L	5	0.28 J			0.69 J	1.2 J
1,2-Dichloroethene (trans)	UG/L	5					
1,2-Dichloropropane	UG/L	1					
1,4-Dioxane	UG/L	-					
Chloroform	UG/L	7					1.0 J
Cyclohexane	UG/L	-		0.51 J			
Methyl ethyl ketone (2-Butanone)	UG/L	50					
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	
Methylene chloride	UG/L	5					
Tetrachloroethene	UG/L	5		0.56 J			370 D
Toluene	UG/L	5					
Trichloroethene	UG/L	5	0.36 J	0.54 J	0.34 J		2.9 J
Vinyl chloride	UG/L	2					
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.

NA - Not analyzed.

Only Detected Results Reported.

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-142	DEC-142	DEC-142	DEC-142	DEC-142
Sample ID			DEC-142	DEC-142	DEC-142	DEC-142	DUP
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/12/18	03/25/21	09/15/21	05/24/22	05/24/22
Parameter	**Units**	**Criteria***					Field Duplicate (1-1)
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1-Dichloroethane	UG/L	5	NA				
1,1-Dichloroethene	UG/L	5	0.37				
1,2-Dichloroethane	UG/L	0.6	0.70				
1,2-Dichloroethene (cis)	UG/L	5	1.1	3.1	3.8	0.72 JD	0.76 JD
1,2-Dichloroethene (trans)	UG/L	5	NA				
1,2-Dichloropropane	UG/L	1	NA				
1,4-Dioxane	UG/L	-	NA				
Chloroform	UG/L	7	1.2		0.38 J	0.54 JD	0.54 JD
Cyclohexane	UG/L	-	NA		0.39 J		
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA				
Methyl tert-butyl ether	UG/L	10	NA	NA	NA	NA	NA
Methylene chloride	UG/L	5	NA				
Tetrachloroethene	UG/L	5	250	270	250	140 D	110 D
Toluene	UG/L	5	NA				
Trichloroethene	UG/L	5	3.9	3.0	2.9	2.0 D	1.8 JD
Vinyl chloride	UG/L	2	NA				
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

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Concentration Exceeds Criteria

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NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-142	DEC-142D	DEC-142D	DEC-142D	DEC-142D
Sample ID			DEC-142	DEC-142D	DEC-142D	DEC-142D	DEC-142D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/25/23	08/27/15	11/12/18	03/25/21	09/15/21
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5		3.8 J	1.70	1.3 J	0.87 J
1,1-Dichloroethane	UG/L	5		3.7 J	3.7	3.8	3.8
1,1-Dichloroethene	UG/L	5		35	25	20	17
1,2-Dichloroethane	UG/L	0.6		1,100 D	660	550	500
1,2-Dichloroethene (cis)	UG/L	5	3.0	5.8	9.5	13	11
1,2-Dichloroethene (trans)	UG/L	5			NA		
1,2-Dichloropropane	UG/L	1			NA		
1,4-Dioxane	UG/L	-			NA		
Chloroform	UG/L	7	0.51 J		0.88		
Cyclohexane	UG/L	-			NA		
Methyl ethyl ketone (2-Butanone)	UG/L	50			NA		
Methyl tert-butyl ether	UG/L	10	NA		NA	NA	NA
Methylene chloride	UG/L	5			NA		
Tetrachloroethene	UG/L	5	150	19	30	18	15
Toluene	UG/L	5			NA		
Trichloroethene	UG/L	5	3.1	190	130	110	110
Vinyl chloride	UG/L	2			NA		
m&p-Xylene	UG/L	5	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 3
GROUNDWATER MONITORING RESULTS
FORMER KLINK COSMO CLEANERS SITE

Location ID			DEC-142D	DEC-142D	DEC-142D
Sample ID			DEC-142D	DEC-142D	DUP
Matrix			Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-
Date Sampled			05/24/22	07/25/23	07/25/23
Parameter	Units	Criteria*			Field Duplicate (1-1)
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	5	1.5 JD		
1,1-Dichloroethane	UG/L	5	2.1 JD		
1,1-Dichloroethene	UG/L	5	7.7 D	0.40 J	0.32 J
1,2-Dichloroethane	UG/L	0.6	330 D	130	130
1,2-Dichloroethene (cis)	UG/L	5	5.3 D	0.42 J	0.42 J
1,2-Dichloroethene (trans)	UG/L	5			
1,2-Dichloropropane	UG/L	1			
1,4-Dioxane	UG/L	-			
Chloroform	UG/L	7			
Cyclohexane	UG/L	-			
Methyl ethyl ketone (2-Butanone)	UG/L	50	50 JD		
Methyl tert-butyl ether	UG/L	10	NA	NA	NA
Methylene chloride	UG/L	5	1.6 JD		
Tetrachloroethene	UG/L	5	13 D	3.0	2.8
Toluene	UG/L	5			
Trichloroethene	UG/L	5	66 D	10	9.9
Vinyl chloride	UG/L	2			
m&p-Xylene	UG/L	5	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Empty cell - Not Detected. J - The reported concentration is an estimated value. D - Result reported from a secondary dilution analysis.
NA - Not analyzed.

Only Detected Results Reported.

Advanced Selection: Klink SVE GW Monitor
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([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR [LOCID] LIKE

TABLE 4
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN NOVEMBER 2018 GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/L	5	26	3	0.410	3.80	1.97	0	DEC-111D
1,1-Dichloroethane	UG/L	5	26	10	0.260	25.00	3.29	1	DEC-111D
1,1-Dichloroethene	UG/L	5	26	8	0.370	62.00	11.91	2	DEC-111D
1,2-Dichloroethane	UG/L	0.6	26	13	0.440	660.0	73.06	12	DEC-142D
1,2-Dichloroethene (cis)	UG/L	5	26	23	0.300	30.00	4.64	5	DEC-031TC
1,2-Dichloroethene (trans)	UG/L	5	26	1	0.420	0.420	0.420	0	DEC-111D
1,4-Dioxane	UG/L	-	26	1	43.00	43.00	43.00	0	DEC-111D
Chloroform	UG/L	7	26	7	0.360	4.20	1.75	0	DEC-064
Methyl tert-butyl ether	UG/L	10	26	6	0.550	1.20	0.742	0	DEC-090D
Tetrachloroethene	UG/L	5	26	25	0.300	2,100	263.1	21	DEC-031
Toluene	UG/L	5	26	3	0.450	1.20	0.740	0	DEC-044D
Trichloroethene	UG/L	5	26	23	0.320	250.0	19.46	5	DEC-111D
Vinyl chloride	UG/L	2	26	1	1.00	1.00	1.00	0	DEC-111D
m&p-Xylene	UG/L	5	26	2	0.300	0.830	0.565	0	DEC-065

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 5
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN MARCH 2021 GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/L	5	26	2	0.300	1.30	0.800	0	DEC-142D
1,1-Dichloroethane	UG/L	5	26	7	0.270	27.00	6.50	2	DEC-111D
1,1-Dichloroethene	UG/L	5	26	6	0.280	20.00	7.90	3	DEC-142D
1,2-Dichloroethane	UG/L	0.6	26	13	0.550	680.0	144.1	11	DEC-031D
1,2-Dichloroethene (cis)	UG/L	5	26	22	0.280	13.00	2.32	3	DEC-142D
1,2-Dichloropropane	UG/L	1	26	1	0.750	0.750	0.750	0	DEC-031D
Chloroform	UG/L	7	26	5	0.960	3.10	1.57	0	DEC-064
Methylene chloride	UG/L	5	26	4	0.320	0.420	0.353	0	DEC-066
Tetrachloroethene	UG/L	5	26	22	0.300	520.0	69.30	14	DEC-111
Trichloroethene	UG/L	5	26	22	0.360	110.0	10.41	5	DEC-142D
Vinyl chloride	UG/L	2	26	2	0.540	1.10	0.820	0	DEC-111D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 6
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN SEPTEMBER 2021 GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/L	5	26	2	0.680	0.870	0.775	0	DEC-142D
1,1-Dichloroethane	UG/L	5	26	7	0.280	20.00	5.52	2	DEC-111D
1,1-Dichloroethene	UG/L	5	26	5	0.890	17.00	9.72	4	DEC-142D
1,2-Dichloroethane	UG/L	0.6	26	11	0.540	550.0	161.4	10	DEC-111D
1,2-Dichloroethene (cis)	UG/L	5	26	17	0.330	57.00	6.22	5	DEC-031TC
1,2-Dichloroethene (trans)	UG/L	5	26	1	0.270	0.270	0.270	0	DEC-031TC
Chloroform	UG/L	7	26	6	0.380	2.80	1.59	0	DEC-064
Cyclohexane	UG/L	-	26	17	0.370	2.10	0.754	0	DEC-031TC
Tetrachloroethene	UG/L	5	26	24	0.540	1,700	108.8	14	DEC-014R
Trichloroethene	UG/L	5	26	20	0.460	110.0	12.22	5	DEC-142D
Vinyl chloride	UG/L	2	26	2	0.480	0.820	0.650	0	DEC-111D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 7
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN MAY 2022 GROUDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/L	5	25	2	0.340	1.50	0.920	0	DEC-142D
1,1-Dichloroethane	UG/L	5	25	8	0.230	22.00	4.46	2	DEC-111D
1,1-Dichloroethene	UG/L	5	25	6	0.200	11.00	4.42	3	DEC-111D
1,2-Dichloroethane	UG/L	0.6	25	9	2.20	520.0	167.8	9	DEC-031D
1,2-Dichloroethene (cis)	UG/L	5	25	18	0.240	6.10	1.59	2	DEC-065D
Chloroform	UG/L	7	25	7	0.230	3.70	1.69	0	DEC-031
Methyl ethyl ketone (2-Butanone)	UG/L	50	25	5	40.00	84.00	60.00	2	DEC-014R
Methylene chloride	UG/L	5	25	5	1.20	2.90	2.02	0	DEC-014R
Tetrachloroethene	UG/L	5	25	18	0.600	310.0	53.98	13	DEC-014R
Trichloroethene	UG/L	5	25	19	0.280	66.00	9.45	3	DEC-142D
Vinyl chloride	UG/L	2	25	1	0.470	0.470	0.470	0	DEC-065D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 8
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN JULY 2023 GROUNDWATER SAMPLES
FORMER KLINK COSMO CLEANERS SITE

Parameter	Units	Criteria*	No. of Samp-les	No. of Detect-ions	Freq. of Detect-ions	Range of Detections			No. Exceed	Location of Max Value
						Min	Max	Avg		
Volatile Organic Compounds										
1,1,1-Trichloroethane	UG/L	5	25	1	4.0%	0.160	0.160	0.160	0	DEC-064D
1,1-Dichloroethane	UG/L	5	25	7	28.0%	0.190	10.00	1.82	1	DEC-111D
1,1-Dichloroethene	UG/L	5	25	4	16.0%	0.320	13.00	4.41	1	DEC-111D
1,2-Dichloroethane	UG/L	0.6	25	10	40.0%	1.30	950.0	152.2	9	DEC-111D
1,2-Dichloroethene (cis)	UG/L	5	25	17	68.0%	0.230	15.00	1.84	1	DEC-111D
1,2-Dichloroethene (trans)	UG/L	5	25	1	4.0%	0.200	0.200	0.200	0	DEC-064D
1,2-Dichloropropane	UG/L	1	25	1	4.0%	0.420	0.420	0.420	0	DEC-031D
Chloroform	UG/L	7	25	9	36.0%	0.180	3.10	0.826	0	DEC-064
Methylene chloride	UG/L	5	25	1	4.0%	0.190	0.190	0.190	0	DEC-065D
Tetrachloroethene	UG/L	5	25	19	76.0%	0.400	850.0	74.13	12	DEC-014R
Toluene	UG/L	5	25	1	4.0%	0.350	0.350	0.350	0	DEC-066D
Trichloroethene	UG/L	5	25	19	76.0%	0.310	77.00	9.90	3	DEC-111D

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including April 2000 and June 2004 Addenda, Class GA.

Concentration Exceeds Criteria

Only Detected Results Reported.

Advanced Selection: Klink SVE GW Mon 23
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WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-014D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1-Dichloroethane	WG	VOA	6	1	-3	0.36	No Trend
1,1-Dichloroethene	WG	VOA	6	5	-5	0.235	No Trend
1,2-Dichloroethane	WG	VOA	6	1	1	0.5	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	5	-11	0.028	Downward Trend
Methyl tert-butyl ether	WG	VOA	2	2		Insufficient Data *	
Tetrachloroethene	WG	VOA	6	6	-2	0.5	No Trend
Trichloroethene	WG	VOA	6	6	-9	0.068	Downward Trend

LOCID: DEC-014R

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	6	4	-2	0.5	No Trend
1,4-Dioxane	WG	VOA	7	1	-4	0.386	No Trend
Chloroform	WG	VOA	6	1	-1	0.5	No Trend
Methyl ethyl ketone (2-Butanone)	WG	VOA	4	1	1	0.625	No Trend
Methylene chloride	WG	VOA	5	1	2	0.408	No Trend
Tetrachloroethene	WG	VOA	6	6	-9	0.068	Downward Trend
Trichloroethene	WG	VOA	6	4	-3	0.36	No Trend

LOCID: DEC-031

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	6	6	-9	0.068	Downward Trend
Chloroform	WG	VOA	6	2	-1	0.5	No Trend
Tetrachloroethene	WG	VOA	6	6	-13	0.0083	Downward Trend
Trichloroethene	WG	VOA	6	6	-11	0.028	Downward Trend

LOCID: DEC-031D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1-Dichloroethane	WG	VOA	6	1	-3	0.36	No Trend
1,2-Dichloroethane	WG	VOA	6	5	5	0.235	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	2	-8	0.136	No Trend
1,2-Dichloropropane	WG	VOA	5	1	-2	0.408	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-031D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Methyl ethyl ketone (2-Butanone)	WG	VOA	4	1	1	0.625	No Trend
Methyl tert-butyl ether	WG	VOA	2	1		Insufficient Data *	
Methylene chloride	WG	VOA	5	1	2	0.408	No Trend
Tetrachloroethene	WG	VOA	6	3	-10	0.068	Downward Trend
Trichloroethene	WG	VOA	6	1	-3	0.36	No Trend

LOCID: DEC-031TC

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	6	5	0	Undefined **	
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Tetrachloroethene	WG	VOA	6	2	-3	0.36	No Trend
Trichloroethene	WG	VOA	6	2	-1	0.5	No Trend

LOCID: DEC-033R

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Tetrachloroethene	WG	VOA	7	1	-6	0.281	No Trend

LOCID: DEC-044

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	6	1	5	0.235	No Trend
Chloroform	WG	VOA	6	4	-5	0.235	No Trend
Tetrachloroethene	WG	VOA	6	6	-5	0.235	No Trend
Trichloroethene	WG	VOA	6	6	-5	0.235	No Trend

LOCID: DEC-044D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	6	-6	0.235	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	1	-3	0.36	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-044D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Tetrachloroethene	WG	VOA	6	4	-3	0.36	No Trend
Toluene	WG	VOA	6	1	-3	0.36	No Trend
Trichloroethene	WG	VOA	6	3	-1	0.5	No Trend

LOCID: DEC-045

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	2	-4	0.36	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	2	-8	0.136	No Trend
Tetrachloroethene	WG	VOA	6	6	-12	0.028	Downward Trend
Trichloroethene	WG	VOA	6	5	-11	0.028	Downward Trend

LOCID: DEC-045D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	3	-6	0.235	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	2	2	0.5	No Trend
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Tetrachloroethene	WG	VOA	6	4	-3	0.36	No Trend
Trichloroethene	WG	VOA	6	1	5	0.235	No Trend

LOCID: DEC-064

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	7	7	-6	0.281	No Trend
Chloroform	WG	VOA	7	7	-14	0.035	Downward Trend
Tetrachloroethene	WG	VOA	7	7	-5	0.281	No Trend
Trichloroethene	WG	VOA	7	7	-10	0.119	No Trend

LOCID: DEC-064D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-064D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1,1-Trichloroethane	WG	VOA	6	1	3	0.36	No Trend
1,1-Dichloroethane	WG	VOA	6	4	3	0.36	No Trend
1,1-Dichloroethene	WG	VOA	6	6	5	0.235	No Trend
1,2-Dichloroethane	WG	VOA	6	5	4	0.36	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	5	8	0.136	No Trend
Chloroform	WG	VOA	6	2	4	0.36	No Trend
Tetrachloroethene	WG	VOA	6	6	1	0.5	No Trend
Trichloroethene	WG	VOA	6	6	8	0.136	No Trend

LOCID: DEC-065

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1-Dichloroethene	WG	VOA	6	1	-3	0.36	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	1	5	0.235	No Trend
Tetrachloroethene	WG	VOA	6	6	-14	0.0083	Downward Trend
Toluene	WG	VOA	6	1	-3	0.36	No Trend
Trichloroethene	WG	VOA	6	3	-1	0.5	No Trend
m&p-Xylene	WG	VOA	1	1		Insufficient Data *	

LOCID: DEC-065D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1,1-Trichloroethane	WG	VOA	6	1	-5	0.235	No Trend
1,1-Dichloroethane	WG	VOA	6	5	-3	0.36	No Trend
1,1-Dichloroethene	WG	VOA	6	5	-9	0.068	Downward Trend
1,2-Dichloroethane	WG	VOA	6	3	3	0.36	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	5	-15	0.0014	Downward Trend
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Tetrachloroethene	WG	VOA	6	6	1	0.5	No Trend
Trichloroethene	WG	VOA	6	5	-5	0.235	No Trend
Vinyl chloride	WG	VOA	6	1	-1	0.5	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-066

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	5	3	-6	0.117	No Trend
Cyclohexane	WG	VOA	4	1	1	0.625	No Trend
Tetrachloroethene	WG	VOA	5	5	-9	0.042	Downward Trend
Trichloroethene	WG	VOA	5	5	-6	0.117	No Trend

LOCID: DEC-066D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	6	-1	0.5	No Trend
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Methyl tert-butyl ether	WG	VOA	2	1		Insufficient Data *	
Tetrachloroethene	WG	VOA	6	1	-5	0.235	No Trend

LOCID: DEC-090

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	1	-1	0.5	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	4	0	Undefined **	
Tetrachloroethene	WG	VOA	6	6	-13	0.0083	Downward Trend
Trichloroethene	WG	VOA	6	5	-1	0.5	No Trend

LOCID: DEC-090D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	5	1	0.5	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	5	5	0.235	No Trend
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Methyl tert-butyl ether	WG	VOA	2	2		Insufficient Data *	
Tetrachloroethene	WG	VOA	6	6	-9	0.068	Downward Trend
Trichloroethene	WG	VOA	6	2	2	0.5	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-111

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	6	6	-3	0.36	No Trend
Chloroform	WG	VOA	6	2	6	0.235	No Trend
Methyl ethyl ketone (2-Butanone)	WG	VOA	4	1	1	0.625	No Trend
Methylene chloride	WG	VOA	5	1	2	0.408	No Trend
Tetrachloroethene	WG	VOA	6	6	-12	0.028	Downward Trend
Trichloroethene	WG	VOA	6	6	-10	0.068	Downward Trend

LOCID: DEC-111D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1,1-Trichloroethane	WG	VOA	6	2	-9	0.068	Downward Trend
1,1-Dichloroethane	WG	VOA	6	6	-6	0.235	No Trend
1,1-Dichloroethene	WG	VOA	6	6	-8	0.136	No Trend
1,2-Dichloroethane	WG	VOA	6	6	11	0.028	Upward Trend
1,2-Dichloroethene (cis)	WG	VOA	6	6	-2	0.5	No Trend
1,4-Dioxane	WG	VOA	6	1	-3	0.36	No Trend
Methyl ethyl ketone (2-Butanone)	WG	VOA	4	1	1	0.625	No Trend
Methyl tert-butyl ether	WG	VOA	2	1		Insufficient Data *	
Tetrachloroethene	WG	VOA	6	6	-6	0.235	No Trend
Trichloroethene	WG	VOA	6	6	-5	0.235	No Trend
Vinyl chloride	WG	VOA	6	4	-8	0.136	No Trend

LOCID: DEC-140

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	4	1	-3	0.375	No Trend
1,2-Dichloroethene (cis)	WG	VOA	4	2	1	0.625	No Trend
Cyclohexane	WG	VOA	3	1		Insufficient Data *	
Tetrachloroethene	WG	VOA	4	3	2	0.375	No Trend
Trichloroethene	WG	VOA	4	3	2	0.375	No Trend

LOCID: DEC-140D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-140D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	5	3	0.36	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	3	-11	0.028	Downward Trend
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Methyl tert-butyl ether	WG	VOA	2	1		Insufficient Data *	
Tetrachloroethene	WG	VOA	6	4	-14	0.0083	Downward Trend
Trichloroethene	WG	VOA	6	2	-7	0.136	No Trend

LOCID: DEC-141

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethene (cis)	WG	VOA	6	3	-10	0.068	Downward Trend
1,4-Dioxane	WG	VOA	7	1	-4	0.386	No Trend
Chloroform	WG	VOA	6	6	-4	0.36	No Trend
Tetrachloroethene	WG	VOA	6	6	-13	0.0083	Downward Trend
Trichloroethene	WG	VOA	6	6	-10	0.068	Downward Trend

LOCID: DEC-141D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	6	-13	0.0083	Downward Trend
1,2-Dichloroethene (cis)	WG	VOA	6	1	5	0.235	No Trend
Cyclohexane	WG	VOA	5	1	0	0.592	No Trend
Tetrachloroethene	WG	VOA	6	3	-7	0.136	No Trend
Trichloroethene	WG	VOA	6	1	1	0.5	No Trend

LOCID: DEC-142

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,2-Dichloroethane	WG	VOA	6	1	-3	0.36	No Trend
1,2-Dichloroethene (cis)	WG	VOA	6	6	5	0.235	No Trend
Chloroform	WG	VOA	6	4	0	Undefined **	
Tetrachloroethene	WG	VOA	6	6	-10	0.068	Downward Trend
Trichloroethene	WG	VOA	6	6	-5	0.235	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

TABLE 9
MANN-KENDALL TREND ANALYSES
VOC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES SINCE AUGUST 2015
FORMER KLINK COSMO CLEANERS SITE

LOCID: DEC-142D

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1,1-Trichloroethane	WG	VOA	6	5	-9	0.068	Downward Trend
1,1-Dichloroethane	WG	VOA	6	5	-9	0.068	Downward Trend
1,1-Dichloroethene	WG	VOA	6	5	-15	0.0014	Downward Trend
1,2-Dichloroethane	WG	VOA	6	6	-15	0.0014	Downward Trend
1,2-Dichloroethene (cis)	WG	VOA	6	5	-5	0.235	No Trend
Chloroform	WG	VOA	6	1	-3	0.36	No Trend
Methyl ethyl ketone (2-Butanone)	WG	VOA	4	1	1	0.625	No Trend
Methylene chloride	WG	VOA	5	1	2	0.408	No Trend
Tetrachloroethene	WG	VOA	6	6	-13	0.0083	Downward Trend
Trichloroethene	WG	VOA	6	6	-14	0.0083	Downward Trend

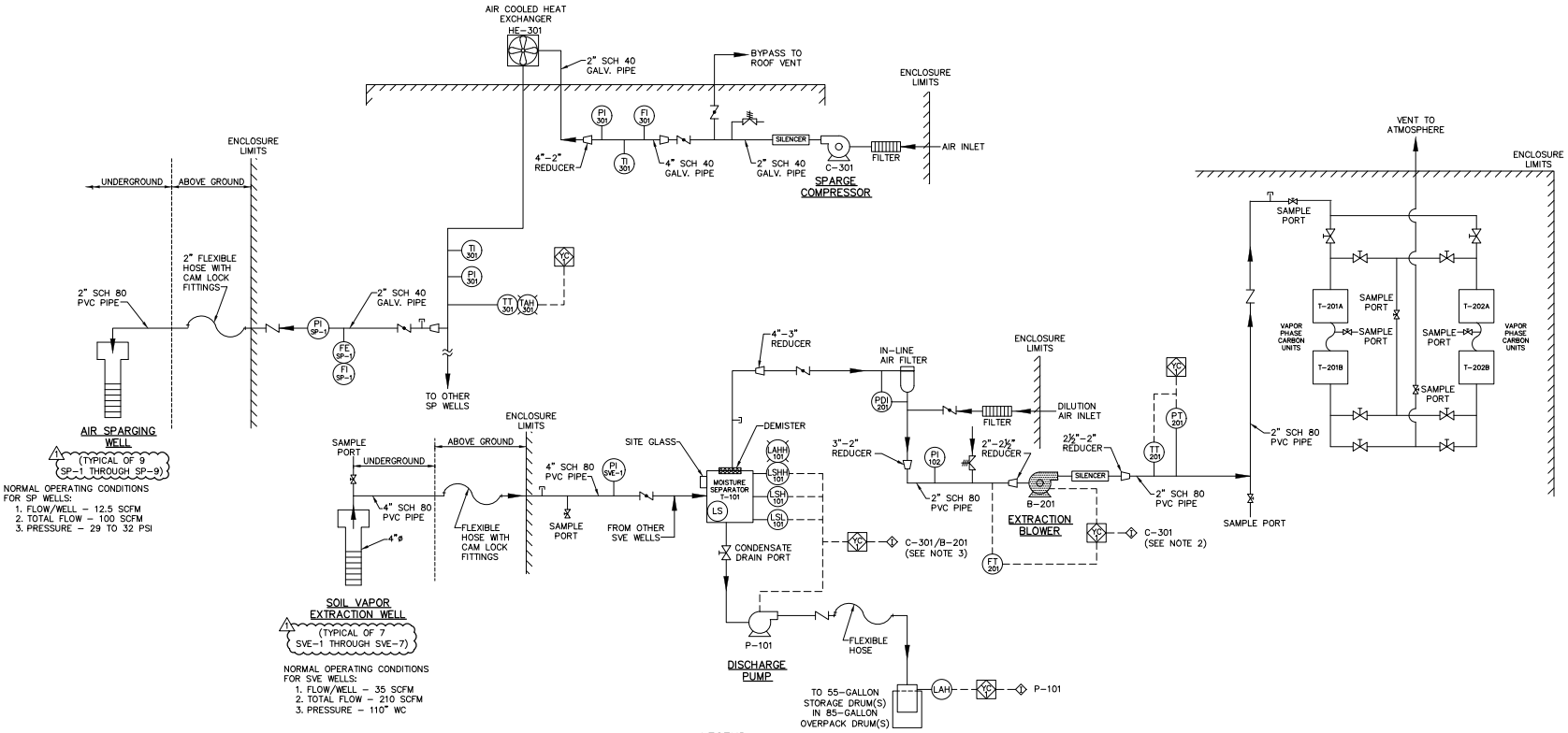
For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

WHERE ([LOCID] = 'DEC-014D' OR [LOCID] = 'DEC-014R' OR [LOCID] LIKE 'DEC-031*' OR [LOCID] = 'DEC-033R' OR [LOCID] LIKE 'DEC-044*' OR [LOCID] LIKE 'DEC-045*' OR [LOCID] LIKE 'DEC-064*' OR [LOCID] LIKE 'DEC-065*' OR [LOCID] LIKE 'DEC-066*' OR [LOCID] LIKE 'DEC-090*' OR [LOCID] LIKE 'DEC-111*' OR [LOCID] LIKE 'DEC-140*' OR [LOCID] LIKE 'DEC-141*' OR

ATTACHMENT A

PROCESS AND INSTRUMENTATION DIAGRAM



LEGEND

- DISCHARGE PUMP
- SPARGE COMPRESSOR
- EXTRACTION BLOWER
- BALL VALVE
- SAMPLE PORT
- LOCALLY MOUNTED
- ALARM
- PROGRAMMABLE LOGIC CONTROLLER
- INTERLOCK
- REDUCER
- BUTTERFLY VALVE
- CHECK VALVE
- VACUUM/PRESSURE RELIEF VALVE
- ANEMOMETER/ THERMOMETER PORT
- PARTICULATE FILTER
- PROCESS PIPING FLOW DIRECTION
- FLEXIBLE HOSE
- ELECTRICAL/SIGNAL WIRING

ABBREVIATIONS

FE – FLOW ELEMENT
FI – FLOW INDICATOR
FT – FLOW TRANSMITTER
LS – LEVEL SWITCH
PI – PRESSURE INDICATOR
TI – TEMPERATURE INDICATOR
TT – TEMPERATURE TRANSMITTER
PT – PRESSURE TRANSMITTER
PDI – PRESSURE DIFFERENTIAL INDICATOR
LSL– LEVEL SWITCH LOW
LAH– LEVEL ALARM HIGH
LSH– LEVEL SWITCH HIGH
LSHH–LEVEL SWITCH HIGH–HIGH
LAHH–LEVEL ALARM HIGH–HIGH

NOTES:

1. INSTRUMENT NUMBER SHALL CORRESPOND TO THE WELL DESIGNATION FOR EACH PIPE LINE.
2. AIR SPARGE SYSTEM SHALL NOT OPERATE WHEN EXTRACTION BLOWER IS OFF.
3. LAHH IN T-101 WILL SHUTDOWN C-301 THEN B-201 (3 MINUTE DELAY)
4. VAPOR PHASE CARBON ADSORPTION SYSTEM COMPRISED OF TWO 500 POUND UNITS PIPED IN SERIES (LEAD) & TWO 500 POUND UNITS PIPED IN SERIES (LAG).

Project: FORMER KLINK COSMO SVE/ AS REMEDIATION SYSTEM

Drawing Title: PROCESS AND INSTRUMENTATION DIAGRAM

DOB Stamps & Signatures

Date: OCT. 2018
Project No.
Drawn By: RAL
CHK By: MG
Scale: NONE
Dwg. No. C-003.01
SHEET 13 OF 17

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION
1	RL	MG	9/26/19	REVISED TO INCLUDE ADDITIONAL SVE AND SP WELLS

REVISIONS

DESIGNED BY: JL
DRAWN BY: RAL
CHECKED BY: RMC
PROJ. ENGR. MG

URS Corporation
New York
257 West Genesee Street, Suite 400
Buffalo, New York 14202-2657
(716)856-5636 - (716)856-2545 fax

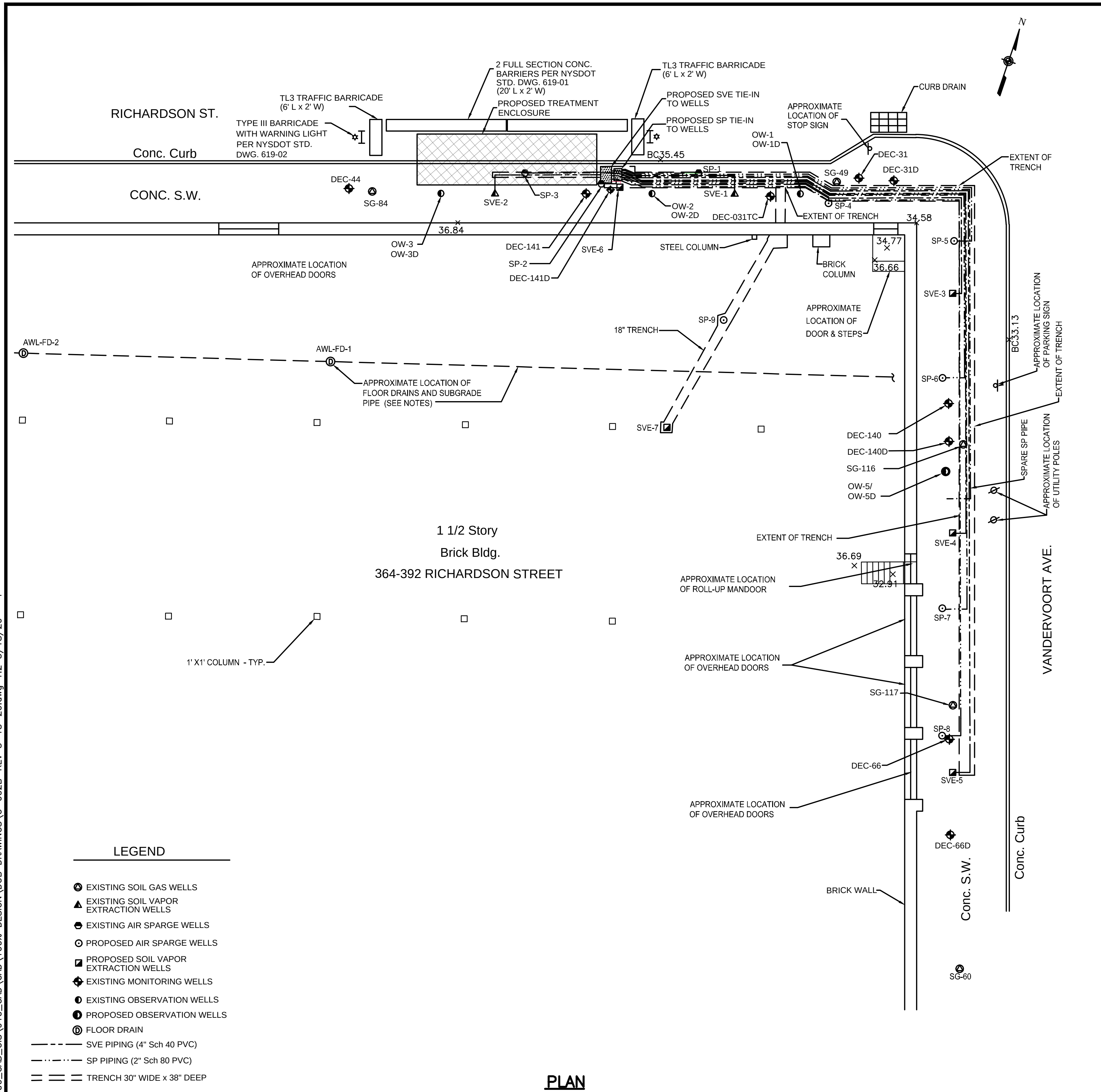
JOB NO. 60568081

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

FORMER KLINK COSMO CLEANERS SITE
FOR INTERIM REMEDIAL MEASURE
SOIL VAPOR EXTRACTION / AIR SPARGE
REMEDIATION SYSTEM
NYSDEC SITE 224130

ATTACHMENT B

SVE/ AS LAYOUT AND PIPING PLANS



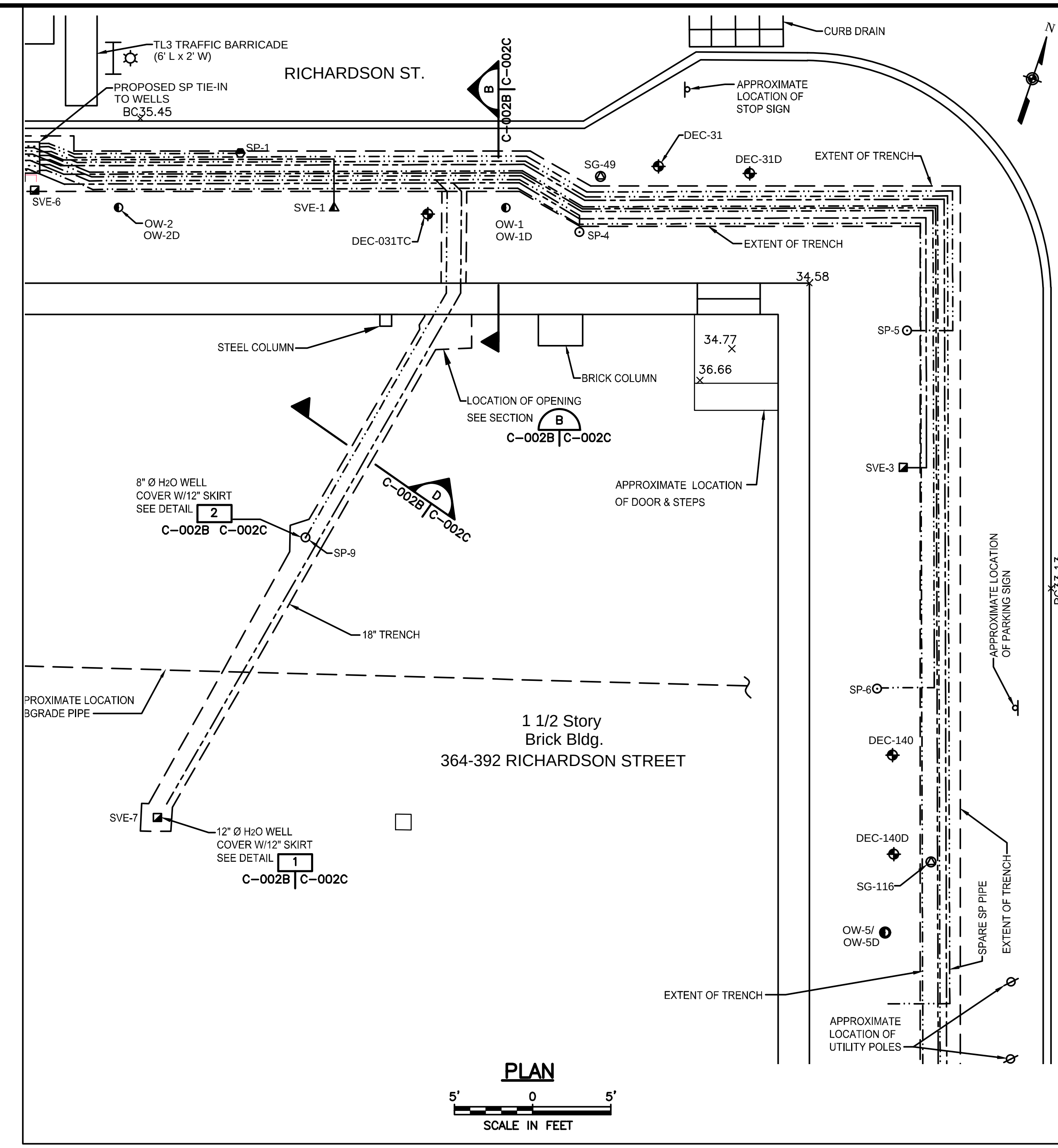
LEGEND

- EXISTING SOIL GAS WELLS
- EXISTING SOIL VAPOR EXTRACTION WELLS
- EXISTING AIR SPARGE WELLS
- PROPOSED AIR SPARGE WELLS
- PROPOSED SOIL VAPOR EXTRACTION WELLS
- EXISTING MONITORING WELLS
- EXISTING OBSERVATION WELLS
- PROPOSED OBSERVATION WELLS
- FLOOR DRAIN
- SVE PIPING (4" Sch 40 PVC)
- SP PIPING (2" Sch 80 PVC)
- TRENCH 30" WIDE x 38" DEEP

SOURCE:
ENVIRONMENTAL ASSESSMENT & REMEDIATIONS

PLAN

10' 0 10'
SCALE IN FEET



NOTES:

1. THE CONTRACTOR SHALL EXCAVATE AND REMOVE MATERIAL BY HAND WHEN TRENCHING NEAR THE EXISTING FLOOR DRAINAGE SYSTEM OR ANOTHER SUBSURFACE UTILITY.
2. ANY DAMAGE OF EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

NO.	MADE BY	APPROVED BY	DATE	DESCRIPTION

REVISIONS

DESIGNED BY: JL
DRAWN BY: RAL
CHECKED BY: RMC
PROJ. ENGR. MG

URS Corporation
New York
257 West Genesee Street, Suite 400
Buffalo, New York 14202-2657
(716)856-5636 - (716)856-2545 fax

JOB NO. 60568081

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

FORMER KLINK COSMO CLEANERS SITE
FOR INTERIM REMEDIAL MEASURE
SOIL VAPOR EXTRACTION / AIR SPARGE
REMEDIATION SYSTEM
NYSDEC SITE 224130

Project: FORMER KLINK COSMO SVE/ AS REMEDIATION SYSTEM

Drawing Title: PROPOSED SOIL VAPOR EXTRACTION / AIR SPARGE TRENCHING & PIPING PLAN

DOB Stamps & Signatures

Date: OCT. 2018
Project No.
Drawn By: RAL
CHK By: MG
Scale: 1"=10'
Dwg. No. C-002B.00-REV
SHEET 11 OF 17

J:\Projects\60568081_FmrKlinkCo\900_CAD_GIS\910_CAD\CAD\100% DESIGN\DOB DRAWINGS\C-002B-REV 5-18-20.dwg 1:2 5/18/20 - 1

ATTACHMENT C

OM&M INSPECTION FORMS

Klink Cosmo - Brooklyn NY

Date:	3/1/2022
Personnel:	TB

Onsite:	1000
Offsite:	1200

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	10.5	inwc
Blw EFF Pressure:	1.2	psi
Blw EFF Temp:	130.7	F
Influent Flow:	194.6	CFM
Inf. Flow Total:	205182502	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	7.0	ppm
PID MidFluent:	0.0	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-7.48	42	2.1	-5.83
SVE-1	-7.57	42	19.7	-5.92
SVE-2	-7.52	4	1.4	-2.15
SVE-7	-7.30	4	6.3	-0.65
SVE-3	-7.70	47	3.5	-6.01
SVE-4	-7.93	37	0.8	-6.19
SVE-5	-7.24	26	0.0	-4.18

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.00	-1.09
OW-2	-1.26	-1.19
OW-3	-0.69	-0.72
OW-4	-1.10	-1.03
OW-5	-1.25	-1.22

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	4	psi
Blower Temp:	112	F
Manifold Pressure:	2	psi
Manifold Temp:	101	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	2	2	1.448
SP-3	1.5	NA	1.452
SP-7	3	2	1.432
SP-5	2	NA	1.466
SP-4	3	NA	1.437
SP-9	2.5	2	1.410
SP-2	2.5	2	1.543
SP-6	3	NA	1.502
SP-1	2	NA	1.797

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	4/6/2022
Personnel:	np

Onsite:	1140
Offsite:	

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	10.0	inwc
Blw EFF Pressure:	1.2	psi
Blw EFF Temp:	118.0	F
Influent Flow:	191.8	CFM
Inf. Flow Total:	215198139	CFM
SVE Filter Diff.	1.5	psi
K/O liquid level:	0.0	in
PID Influent:	11	ppm
PID MidFluent:	0	ppm
PID Effluent:	0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	7.3	48	1.8	-7.13
SVE-1	7.7	42	20.5	-7.45
SVE-2	9.0	15	1.4	-2.23
SVE-7	11.1	11	6.7	-0.87
SVE-3	8.5	31	3.0	-7.64
SVE-4	8.1	37	0.7	-7.59
SVE-5	9.5	22	0.1	-5.48

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.16	-1.22
OW-2	-1.44	-1.35
OW-3	-0.78	-0.80
OW-4	-1.22	-1.31
OW-5	-1.36	-1.38

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	3	psi
Blower Temp:	108	F
Manifold Pressure:	2	psi
Manifold Temp:	100	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	2	2	1.475
SP-3	1.5	NA	1.432
SP-7	2	2	1.427
SP-5	2	NA	1.402
SP-4	2	NA	1.461
SP-9	2	2	1.378
SP-2	2	2	1.492
SP-6	2	NA	1.504
SP-1	2	NA	1.518

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Turned On Heat Exchanger

Klink Cosmo - Brooklyn NY

Date:	7/28/2022
Personnel:	TB

Onsite:	1015
Offsite:	

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-7	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	121.1	F
Influent Flow:	188.2	CFM
Inf. Flow Total:	246782901	CFM
SVE Filter Diff.	-1.4	psi
K/O liquid level:	0.0	in
PID Influent:	7.8	ppm
PID MidFluent:	6.3	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-4.62	32	13.7	-4.56
SVE-1	-4.63	32	17.2	-4.59
SVE-2	-4.65	31	8.5	-4.60
SVE-7	-4.77	5	8.9	-0.67
SVE-3	-4.77	38	7.0	-4.63
SVE-4	-4.87	27	3.2	-4.65
SVE-5	-5.30	38	1.2	-5.04

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.00	-1.08
OW-2	-1.24	-1.21
OW-3	-0.73	-0.91
OW-4	-1.21	-1.19
OW-5	-1.14	-1.19

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5	psi
Blower Temp:	111	F
Manifold Pressure:	5	psi
Manifold Temp:	104	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4	2	3.893
SP-3	4	NA	3.870
SP-7	5	2	3.852
SP-5	5	NA	3.893
SP-4	5	NA	3.859
SP-9	5	2	3.893
SP-2	5	2	3.926
SP-6	5	NA	3.790
SP-1	4.5	NA	3.944

Maintenance	
Completed Any Maintenance?	Yes
SVE Filter Changed	No
Add Oil To Sparge Blower	Yes
Change Oil In Sparge Blower	No

Other:

CLEANED AIR FILTER

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	8/16/2022
Personnel:	TB/MB

Onsite:	1345
Offsite:	1515

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-7	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	122.8	F
Influent Flow:	189.9	CFM
Inf. Flow Total:	252007609	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	11.2	ppm
PID MidFluent:	8.3	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-4.49	26	19.8	-2.80
SVE-1	-4.51	32	26.1	-4.10
SVE-2	-4.54	26	14.5	-4.20
SVE-7	-4.39	5	0.8	-2.88
SVE-3	-4.65	21	9.4	-4.32
SVE-4	-4.73	21	5.6	-3.59
SVE-5	-5.07	43	2.2	-4.67

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.85	-0.88
OW-2	-0.99	-1.06
OW-3	-0.80	-0.40
OW-4	-0.96	-1.00
OW-5	-0.94	-0.97

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	4	psi
Blower Temp:	185	F
Manifold Pressure:	5	psi
Manifold Temp:	103	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4	2	3.733
SP-3	4	NA	3.783
SP-7	5	3	3.669
SP-5	5	NA	2.518
SP-4	5	NA	3.755
SP-9	5	2.5	3.715
SP-2	5	2.5	3.648
SP-6	5	NA	3.528
SP-1	4	NA	3.696

Maintenance	
Completed Any Maintenance?	Yes
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

CHANGED SPARGE AIR FILTER

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	9/7/2022
Personnel:	

Onsite:	1100
Offsite:	1300

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-6.5	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	115.8	F
Influent Flow:	194.1	CFM
Inf. Flow Total:	258043942	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	21.1	ppm
PID MidFluent:	13.1	ppm
PID Effluent:	1.3	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-3.97	26	20.3	-3.70
SVE-1	-3.98	31	21.5	-3.72
SVE-2	-3.99	26	11.4	-3.71
SVE-7	-4.08	26	11.1	-3.79
SVE-3	-4.13	31	5.7	-4.26
SVE-4	-4.25	37	2.8	-3.84
SVE-5	-4.71	26	1.1	-4.28

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.89	-0.95
OW-2	-1.06	-1.06
OW-3	-0.76	-0.78
OW-4	-1.01	-1.00
OW-5	-0.97	-0.98

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5.0	psi
Blower Temp:	174	F
Manifold Pressure:	6.0	psi
Manifold Temp:	98	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	No	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	5	2	4.127
SP-3	4	NA	4.093
SP-7	6	2	4.086
SP-5	6	NA	4.094
SP-4	6	NA	4.076
SP-9	6	2	4.163
SP-2	6	2	4.025
SP-6	6	NA	3.969
SP-1	6	NA	4.157

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

BREAK THRU ON GAC-1 AND GAC-2, SWITCHED OVER TO GAC-3 AND GAC-4

Klink Cosmo - Brooklyn NY

Date:	10/6/2022
Personnel:	TB

Onsite:	1100
Offsite:	1230

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-7	inwc
Blw EFF Pressure:	1.4	psi
Blw EFF Temp:	124.2	F
Influent Flow:	194.9	CFM
Inf. Flow Total:	266132091	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	8.0	ppm
PID MidFluent:	0.0	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-4.68	37	16.3	-4.66
SVE-1	-4.84	37	16.8	-4.54
SVE-2	-4.73	31	10.0	-4.68
SVE-7	-4.85	31	7.0	-4.82
SVE-3	-5.11	31	4.4	-4.90
SVE-4	-5.14	59	1.6	-4.74
SVE-5	-5.67	9	0.2	-1.22

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.05	-0.73
OW-2	-1.31	-1.29
OW-3	-1.09	-0.78
OW-4	-1.25	-1.24
OW-5	-1.11	-1.12

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5	psi
Blower Temp:	170	F
Manifold Pressure:	4.5	psi
Manifold Temp:	83	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4	2	4.186
SP-3	4	NA	4.243
SP-7	5	2.5	4.141
SP-5	5	NA	4.171
SP-4	5	NA	4.215
SP-9	5	2	4.182
SP-2	5	2	4.105
SP-6	5	NA	4.051
SP-1	5	NA	4.239

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	11/10/2022
Personnel:	TB

Onsite:	1030
Offsite:	1200

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-9.5	inwc
Blw EFF Pressure:	1.4	psi
Blw EFF Temp:	128.1	F
Influent Flow:	196.4	CFM
Inf. Flow Total:	275921737	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	12.9	ppm
PID MidFluent:	0.0	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-6.38	37	9.4	-5.00
SVE-1	-6.77	42	39.9	-5.10
SVE-2	-6.29	9	3.9	-2.47
SVE-7	-6.71	4	10.5	-1.33
SVE-3	-6.72	53	6.7	-5.25
SVE-4	-6.93	37	1.8	-5.10
SVE-5	-5.82	4	0.0	-5.44

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.90	-1.24
OW-2	-1.12	-1.09
OW-3	-1.07	-0.69
OW-4	-1.03	-1.00
OW-5	-1.05	-1.09

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	6.5	psi
Blower Temp:	162	F
Manifold Pressure:	6	psi
Manifold Temp:	74	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	5	2	4.297
SP-3	4.5	NA	4.313
SP-7	6	3	4.258
SP-5	6	NA	4.279
SP-4	6	NA	4.285
SP-9	6	2	4.389
SP-2	6	2	4.421
SP-6	6	NA	4.166
SP-1	6	NA	4.320

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	12/21/2022
Personnel:	TB/MB

Onsite:	0730
Offsite:	1130

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Y / N	
Blower Vacuum:	11	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	127.4	F
Influent Flow:	197.4	CFM
Inf. Flow Total:	287408587	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	8.9	ppm
PID MidFluent:	0.4	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-7.36	26	11.0	-5.48
SVE-1	-7.45	26	52.1	-5.27
SVE-2	-7.78	4	7.2	-1.71
SVE-7	-7.20	9	13.3	-4.57
SVE-3	-7.59	4	12.0	-5.54
SVE-4	-7.90	37	4.4	-5.42
SVE-5	-6.30	9	0.4	-5.89

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.95	-1.03
OW-2	-1.17	-1.13
OW-3	-0.72	-0.73
OW-4	-1.05	-1.03
OW-5	-1.03	-1.10

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	6.5	psi
Blower Temp:	164	F
Manifold Pressure:	5	psi
Manifold Temp:	60	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4.5	2	4.480
SP-3	4.5	NA	4.140
SP-7	6	3	4.396
SP-5	5	NA	4.500
SP-4	5.5	NA	4.475
SP-9	5.5	3	4.626
SP-2	5.5	2	4.352
SP-6	5.5	NA	4.317
SP-1	6	NA	4.410

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

CARBON CHANGE OUT ON VESSELS 1 AND 2

Klink Cosmo - Brooklyn NY

Date:	1/12/2023
Personnel:	TB

Onsite:	1030
Offsite:	

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-10	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	133.1	F
Influent Flow:	194.3	CFM
Inf. Flow Total:	293577137	CFM
SVE Filter Diff.	-1.4	psi
K/O liquid level:	0.0	in
PID Influent:	12.5	ppm
PID MidFluent:	15.4	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-7.04	31	6.6	-6.48
SVE-1	-7.25	31	42.7	-6.53
SVE-2	-7.23	4	3.1	-2.75
SVE-7	-6.87	20	5.1	-5.73
SVE-3	-7.28	42	5.2	-6.42
SVE-4	-7.41	42	1.3	-6.62
SVE-5	-8.07	9	0.2	-0.46

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.05	-1.14
OW-2	-1.32	-1.27
OW-3	-1.22	-0.76
OW-4	-1.17	-1.14
OW-5	-1.47	-1.16

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5	psi
Blower Temp:	166	F
Manifold Pressure:	5	psi
Manifold Temp:	72	F
Manifold Flow:	1.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4	2	4.307
SP-3	4	NA	4.127
SP-7	5.5	3	4.231
SP-5	5	NA	4.255
SP-4	5.5	NA	4.215
SP-9	5	2	4.446
SP-2	5.5	2	4.287
SP-6	5.5	NA	4.141
SP-1	5	NA	4.305

Maintenance	
Completed Any Maintenance?	Yes
SVE Filter Changed	No
Add Oil To Sparge Blower	Yes
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	3/2/2023
Personnel:	TB

Onsite:	1030
Offsite:	1230

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-10	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	127.3	F
Influent Flow:	193.0	CFM
Inf. Flow Total:	307397646	CFM
SVE Filter Diff.	-1.4	psi
K/O liquid level:	0.0	in
PID Influent:	11.0	ppm
PID MidFluent:	8.9	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-7.53	42	5.0	-5.26
SVE-1	-7.44	48	34.2	-5.17
SVE-2	-7.44	9	2.5	-2.82
SVE-7	-7.36	9	6.3	-2.80
SVE-3	-7.56	58	4.3	-5.16
SVE-4	-7.50	37	0.9	-5.37
SVE-5	-6.03	20	0.0	-5.68

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.90	-0.99
OW-2	-1.16	-1.10
OW-3	-0.69	-0.72
OW-4	-1.01	-1.00
OW-5	-1.19	-1.07

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5.0	psi
Blower Temp:	163	F
Manifold Pressure:	4.0	psi
Manifold Temp:	72	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4.0	2.0	4.144
SP-3	4.0	NA	3.881
SP-7	5.0	4.0	4.105
SP-5	4.5	NA	3.966
SP-4	5.0	NA	4.030
SP-9	5.0	4.0	4.113
SP-2	5.0	2.0	4.069
SP-6	5.0	NA	4.010
SP-1	4.5	NA	3.981

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	3/27/2023
Personnel:	TB

Onsite:	1030
Offsite:	1215

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-9.5	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	128.0	F
Influent Flow:	314459711	CFM
Inf. Flow Total:	196.1	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	6.6	ppm
PID MidFluent:	7.4	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-6.90	42	2.4	-6.55
SVE-1	-7.01	26	23.3	-6.73
SVE-2	-6.95	4	1.4	-2.40
SVE-7	-7.20	4	4.3	-0.78
SVE-3	-7.08	37	2.4	-6.69
SVE-4	-7.17	42	0.3	-6.93
SVE-5	-7.39	4	0.0	-1.21

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.06	-1.17
OW-2	-1.24	-1.29
OW-3	-0.77	-0.79
OW-4	-1.17	-1.15
OW-5	-1.24	-1.26

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	6	psi
Blower Temp:	167	F
Manifold Pressure:	4.5	psi
Manifold Temp:	77	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4	2	4.029
SP-3	4	NA	3.982
SP-7	5	3.5	4.009
SP-5	5	NA	4.063
SP-4	5	NA	4.126
SP-9	5	3.5	4.201
SP-2	5	2	4.148
SP-6	5	NA	3.979
SP-1	4.5	NA	4.016

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	4/26/2023
Personnel:	np

Onsite:	0920
Offsite:	1120

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	8.0	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	70.6	F
Influent Flow:	202.3	CFM
Inf. Flow Total:	322964411	CFM
SVE Filter Diff.	1.5	psi
K/O liquid level:	0.0	in
PID Influent:	6	ppm
PID MidFluent:	7	ppm
PID Effluent:	0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-5.5	31	5.9	-4.9
SVE-1	-5.5	37	26.8	-5.3
SVE-2	-6.8	20	1.7	-2.62
SVE-7	-8.8	16	6.2	-.074
SVE-3	-7	37	3.2	-6.88
SVE-4	-6.2	31	1.3	-6.97
SVE-5	-7.5	20	0.4	-1.27

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.05	-1.20
OW-2	-1.22	-1.30
OW-3	-0.78	-0.78
OW-4	-1.21	-1.17
OW-5	-1.24	-1.25

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	6	psi
Blower Temp:	165	F
Manifold Pressure:	6	psi
Manifold Temp:	82	F
Manifold Flow:	NA	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	5	2.5	4.143
SP-3	4	NA	4.011
SP-7	5	NA	4.104
SP-5	5	NA	4.056
SP-4	5	NA	4.154
SP-9	6	4	4.198
SP-2	5	2	4.143
SP-6	5	NA	3.988
SP-1	5	NA	4.096

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Turned on heat exchanger

Klink Cosmo - Brooklyn NY

Date:	5/16/2023
Personnel:	TB

Onsite:	1200
Offsite:	1430

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	7.5	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	108.9	F
Influent Flow:	190.9	CFM
Inf. Flow Total:	328727723	CFM
SVE Filter Diff.	-1.4	psi
K/O liquid level:	0.0	in
PID Influent:	9.9	ppm
PID MidFluent:	8.2	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-4.76	26	17.0	-4.73
SVE-1	-4.80	26	26.2	-4.77
SVE-2	-5.10	15	3.3	-3.62
SVE-7	-4.97	5	7.8	-0.64
SVE-3	-5.06	26	3.9	-4.80
SVE-4	-5.07	31	1.4	-4.83
SVE-5	-5.50	31	0.4	-5.15

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.93	-1.05
OW-2	-1.19	-1.17
OW-3	-0.78	-0.79
OW-4	-1.11	-1.11
OW-5	-1.04	-1.06

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	6	psi
Blower Temp:	150	F
Manifold Pressure:	3	psi
Manifold Temp:	103	F
Manifold Flow:	NA	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	3	2	3.701
SP-3	3.75	NA	3.702
SP-7	4	3	RATE ON WE
SP-5	3.5	NA	3.694
SP-4	4.5	NA	3.780
SP-9	4	3.5	3.804
SP-2	4	2	3.827
SP-6	4	NA	3.662
SP-1	3.5	NA	3.727

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	7/6/2023
Personnel:	TB/MB

Onsite:	1000
Offsite:	1530

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-7	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	119.2	F
Influent Flow:	189.6	CFM
Inf. Flow Total:	329076811	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	27.1	ppm
PID MidFluent:	8.6	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-4.40	4	40.2	
SVE-1	-4.38	5	71.8	
SVE-2	-4.41	32	22.8	
SVE-7	-4.45	32	1.6	
SVE-3	-4.52	54	49.2	
SVE-4	-4.60	10	6.6	
SVE-5	5.02	21	3.1	

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1		
OW-2		
OW-3		
OW-4		
OW-5		

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5	psi
Blower Temp:	164	F
Manifold Pressure:	3	psi
Manifold Temp:	112	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	3	2	
SP-3	3.5	NA	
SP-7	4	3	
SP-5	3	NA	
SP-4	4	NA	
SP-9	4	3	
SP-2	3.5	2	
SP-6	4	NA	
SP-1	3	NA	

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		Y / N
Location	Time	PID

Notes:

SYSTEM OFF ON ARRIVAL DUE TO POWER FAILURE. POWER RESTORED TO SYSTEM AT 1430. COLLECTED SYSTEM READINGS AFTER HALF HOUR.

Klink Cosmo - Brooklyn NY

Date:	7/19/2023
Personnel:	MB/TB

Onsite:	0920
Offsite:	1140

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-6	inwc
Blw EFF Pressure:	1.4	psi
Blw EFF Temp:	117.1	F
Influent Flow:	190.0	CFM
Inf. Flow Total:	332559555	CFM
SVE Filter Diff.	-1.4	psi
K/O liquid level:	0	in
PID Influent:	8.7	ppm
PID MidFluent:	4.6	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-3.90	15	9.8	-3.85
SVE-1	-3.89	37	15.7	-3.37
SVE-2	-3.92	9	6.4	-3.83
SVE-7	-4.00	5	5.7	-3.88
SVE-3	-4.08	32	3.2	-3.97
SVE-4	-4.18	38	1.6	-3.98
SVE-5	-4.60	60	0.7	-4.37

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.94	-1.04
OW-2	-1.18	-1.18
OW-3	-0.37	-0.87
OW-4	-1.09	-1.11
OW-5	-1.04	-1.06

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	4	psi
Blower Temp:	176	F
Manifold Pressure:	5	psi
Manifold Temp:	100	F
Manifold Flow:	NA	cfm
Blw Oil Checked:	No	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4	2	3.725
SP-3	4	NA	3.710
SP-7	5	3	3.763
SP-5	5	NA	3.800
SP-4	5	NA	3.812
SP-9	5	3	3.866
SP-2	5	2	3.864
SP-6	5	NA	3.744
SP-1	5	NA	3.754

Maintenance	
Completed Any Maintenance?	Yes
SVE Filter Changed	No
Add Oil To Sparge Blower	Yes
Change Oil In Sparge Blower	No

Other:

Samples Collected:		Yes
Location	Time	PID
INFLUENT	1128	8.7
MIDFLUENT	1122	4.6
EFFLUENT	1116	0.0

Notes:

Klink Cosmo - Brooklyn NY

Date:	8/11/2023
Personnel:	TB

Onsite:	0730
Offsite:	0900

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-6	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	113.1	F
Influent Flow:	192.5	CFM
Inf. Flow Total:	338860211	CFM
SVE Filter Diff.	-1.4	psi
K/O liquid level:	0.0	in
PID Influent:	4.8	ppm
PID MidFluent:	3.3	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-4.41	15	7.0	-3.82
SVE-1	-4.41	31	6.9	-3.82
SVE-2	-4.45	4	3.8	-3.85
SVE-7	-3.99	10	3.6	-3.90
SVE-3	-4.57	4	1.9	-4.39
SVE-4	-4.66	42	1.0	-3.98
SVE-5	-5.10	48	0.4	**

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.95	-1.03
OW-2	-1.15	-1.15
OW-3	-0.83	-0.87
OW-4	-1.09	-1.12
OW-5	-1.04	-1.06

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5.5	psi
Blower Temp:	168	F
Manifold Pressure:	5.5	psi
Manifold Temp:	89	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4.5	2	**
SP-3	3.5	NA	3.533
SP-7	6	2	**
SP-5	5	NA	3.638
SP-4	5.5	NA	3.635
SP-9	5	3	3.703
SP-2	5.5	1.5	3.676
SP-6	5.5	NA	3.588
SP-1	6	NA	3.662

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

** PUBLIC SAFETY CONCERNS BY THESE WELLS SO DID NOT OBTAIN READINGS

Klink Cosmo - Brooklyn NY

Date:	9/12/2023
Personnel:	TB

Onsite:	1100
Offsite:	1230

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	-6.5	inwc
Blw EFF Pressure:	1.3	psi
Blw EFF Temp:	110.8	F
Influent Flow:	193.4	CFM
Inf. Flow Total:	347777651	CFM
SVE Filter Diff.	-1.4	psi
K/O liquid level:	0.0	in
PID Influent:	13.1	ppm
PID MidFluent:	7.8	ppm
PID Effluent:	3.9	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-3.96	32	29.2	-2.22
SVE-1	-3.97	32	24.3	-3.93
SVE-2	-3.99	26	10.2	-3.95
SVE-7	-4.08	31	9.5	-4.00
SVE-3	-4.15	15	5.1	-4.0
SVE-4	-4.25	15	2.6	-4.11
SVE-5	-4.73	15	1.0	-4.48

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-0.98	-1.07
OW-2	-1.18	-1.18
OW-3	-1.32	-0.88
OW-4	-1.12	-1.14
OW-5	-1.08	-1.11

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5.5	psi
Blower Temp:	164	F
Manifold Pressure:	5	psi
Manifold Temp:	98	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4	2	3.429
SP-3	3.5	NA	3.405
SP-7	6	3	3.473
SP-5	5	NA	3.486
SP-4	5.5	NA	3.500
SP-9	5	3	3.552
SP-2	5	2	3.535
SP-6	5.5	NA	3.457
SP-1	5	NA	3.459

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	Yes
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

SWITCHED FROM GAC-3 AND GAC-4 TO GAC-1 AND GAC-2

NEW MIDFLUENT AFTER CHANGE 0.0 AND NEW EFFLUENT AFTER CHANGE 0.0

Klink Cosmo - Brooklyn NY

Date:	11/2/2023
Personnel:	MB

Onsite:	1410
Offsite:	1630

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	9.5	inwc
Blw EFF Pressure:	1.1	psi
Blw EFF Temp:	91.5	F
Influent Flow:	206.5	CFM
Inf. Flow Total:	362703498	CFM
SVE Filter Diff.	-1.6	psi
K/O liquid level:	0.0	in
PID Influent:	19.3	ppm
PID MidFluent:	0.0	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-5.87	80	10.8	-6.23
SVE-1	-6.37	80	32.8	-6.05
SVE-2	-6.81	15	5.2	-2.80
SVE-7	-6.16	48	5.1	-4.07
SVE-3	-7.00	53	3.1	-6.61
SVE-4	-6.86	64	0.0	-6.24
SVE-5	-7.58	53	0.0	-5.43

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.23	-1.38
OW-2	-1.46	-1.48
OW-3	-0.92	-0.96
OW-4	-1.35	-1.32
OW-5	-1.14	-1.39

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	6	psi
Blower Temp:	142	F
Manifold Pressure:	5	psi
Manifold Temp:	71	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	Yes	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	4.0	2.0	3.223
SP-3	3.0	NA	3.139
SP-7	5.0	3.0	2.833
SP-5	4.0	NA	2.880
SP-4	5.0	NA	3.267
SP-9	5.0	3.0	2.861
SP-2	5.0	2.0	3.352
SP-6	5.0	NA	2.992
SP-1	4.0	NA	3.440

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	11/29/2023
Personnel:	MB

Onsite:	1030
Offsite:	1200

Systems Running on Departure:
SVE / Airsparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	11	inwc
Blw EFF Pressure:	1.1	psi
Blw EFF Temp:	83.7	F
Influent Flow:	204.6	CFM
Inf. Flow Total:	370589142	CFM
SVE Filter Diff.	-1.6	psi
K/O liquid level:	0.0	in
PID Influent:	10.8	ppm
PID MidFluent:	0.0	ppm
PID Effluent:	0.0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-7.71	96	2.4	-5.59
SVE-1	-7.61	107	38.6	-7.19
SVE-2	-7.61	85	1.4	-1.89
SVE-7	-7.69	84	0.0	-3.68
SVE-3	-7.67	90	3.7	-7.35
SVE-4	-8.03	96	0.0	-7.16
SVE-5	-8.68	73	0.0	-6.15

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.18	-1.51
OW-2	-1.46	-1.41
OW-3	-0.74	-0.77
OW-4	-1.16	-1.14
OW-5	-0.98	-1.38

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5.0	psi
Blower Temp:	140	F
Manifold Pressure:	4.0	psi
Manifold Temp:	60	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	No	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	3.0	2.0	2.668
SP-3	3.25	NA	2.740
SP-7	4.5	3.0	2.542
SP-5	4.0	NA	2.777
SP-4	4.5	NA	2.640
SP-9	5.0	3.5	2.896
SP-2	5.0	2.0	2.847
SP-6	5.0	NA	2.792
SP-1	4.0	NA	3.163

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	12/21/2023
Personnel:	MB

Onsite:	1010
Offsite:	1210

Systems Running on Departure:
SVE / ~~Air Sparge~~

SVE

System		
System Running?	Yes	
Blower Vacuum:	11.0	inwc
Blw EFF Pressure:	1.1	psi
Blw EFF Temp:	88.4	F
Influent Flow:	204.2	CFM
Inf. Flow Total:	377036838	CFM
SVE Filter Diff.	-1.6	psi
K/O liquid level:	0.0	in
PID Influent:	8	ppm
PID MidFluent:	0	ppm
PID Effluent:	0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-7.84	96	1.5	-3.33
SVE-1	-8.14	96	17.8	-5.65
SVE-2	-8.03	90	1.7	-3.10
SVE-7	-7.99	75	3.9	-6.07
SVE-3	-7.70	85	2.6	-5.90
SVE-4	-8.30	80	0.5	-5.63
SVE-5	-8.79	79	0.0	-6.26

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.03	-1.14
OW-2	-1.26	-1.25
OW-3	-1.21	-1.16
OW-4	-1.13	-1.19
OW-5	-0.81	-0.80

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5	psi
Blower Temp:	140	F
Manifold Pressure:	4	psi
Manifold Temp:	58	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	No	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	3.0	2.0	3.061
SP-3	3.2	NA	3.222
SP-7	4.0	5.0	2.472
SP-5	4.0	NA	3.048
SP-4	4.5	NA	3.315
SP-9	4.0	4.0	3.090
SP-2	4.0	2.0	2.887
SP-6	4.5	NA	2.800
SP-1	4.0	NA	2.469

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other:

Samples Collected:		No
Location	Time	PID

Notes:

Klink Cosmo - Brooklyn NY

Date:	2/6/2024
Personnel:	MB

Onsite:	1130
Offsite:	1355

Systems Running on Departure:
SVE / Air Sparge

SVE

System		
System Running?	Yes	
Blower Vacuum:	12.0	inwc
Blw EFF Pressure:	1.1	psi
Blw EFF Temp:	121.1	F
Influent Flow:	201.9	CFM
Inf. Flow Total:	390714965	CFM
SVE Filter Diff.	-1.5	psi
K/O liquid level:	0.0	in
PID Influent:	11	ppm
PID MidFluent:	7	ppm
PID Effluent:	0	ppm

Wells				
Wells	Vac inwc	Flow FPM	PID ppm	Well Vac inwc
SVE-6	-7.87	80	3.4	-7.49
SVE-1	-7.93	55	36.4	-8.95
SVE-2	-8.04	0	0.6	NA
SVE-7	-7.95	0	6.7	NA
SVE-3	-8.03	58	4.2	-8.71
SVE-4	-8.10	52	0.2	-6.92
SVE-5	-9.04	47	0.1	-7.01

Observation Wells		
VAC (-) Pressure (+) inwc		
	Shallow	Deep
OW-1	-1.38	-1.51
OW-2	-1.73	-1.65
OW-3	-0.86	-0.89
OW-4	-1.52	-1.51
OW-5	-0.50	-0.62

Air Sparge

System		
System Running?	Yes	
Blower Pressure:	5	psi
Blower Temp:	139	F
Manifold Pressure:	4	psi
Manifold Temp:	69	F
Manifold Flow:	2.5	cfm
Blw Oil Checked:	No	

Wells			
Wells	Pressure	Flow	Well Pres.
	PSI	CFM	PSI
SP-8	3.0	3.0	2.662
SP-3	3.0	NA	2.744
SP-7	4.0	5.0	2.575
SP-5	4.0	NA	2.787
SP-4	4.0	NA	2.896
SP-9	4.0	3.0	2.739
SP-2	4.0	2.0	2.713
SP-6	4.5	NA	2.737
SP-1	4.0	NA	3.097

Maintenance	
Completed Any Maintenance?	No
SVE Filter Changed	No
Add Oil To Sparge Blower	No
Change Oil In Sparge Blower	No

Other: SYSTEM SHUTDOWN

Samples Collected:		Y / ~~N~~
Location	Time	PID

Notes: SVE and Air Sparge Systems are shut down. SVE Wells 2&7 were not giving air flow readings due to potentially high water column.

ATTACHMENT D

HAZARDOUS WASTE MANIFEST

681888-22 5049810

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYD017605551	1	800-457-7362	009987007 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
625 BROADWAY
ALBANY NY 12233
Att: MICHAEL HAGGERTY
Generator's Phone: 518 402-9767

Generator's Site Address (if different than mailing address)
FORMER KLINK COSMO CLEANERS
368 RICHARDSON STREET
BROOKLYN NY 11222

6. Transporter 1 Company Name
ISLAND PUMP & TANK CORP.
U.S. EPA ID Number
NYR000191726

7. Transporter 2 Company Name
REPUBLIC ENVIRONMENTAL SYSTEMS (TRANSPORTATION GROUP), LLC
U.S. EPA ID Number
PAD982661381

8. Designated Facility Name and Site Address
NORTHLAND ENVIRONMENTAL
275 ALLENS AVENUE
PROVIDENCE RI 02905
Facility's Phone: 401 781-6340
U.S. EPA ID Number
RID040098352

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (TETRACHLOROETHLYENE), 9, PGIII RQ(D039, F002)	1	CF	1050	P	D039	F002	B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
PROFILE #145174-03

1 x CYB

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Matt Schieferstein As Agent for — Signature — Month Day Year: 12 20 23

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ____
Transporter signature (for exports only): Date leaving U.S.: ____

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ashton Al; — Signature — Month Day Year: 12 20 23
Transporter 2 Printed/Typed Name: Arone McCallam — Signature — Month Day Year: 01 05 23

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Conor Pickering — Signature — Month Day Year: 11 11 23

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Land Disposal Restriction Notification Form

Facility Site Address
NORTHLAND ENVIRONMENTAL
275 ALLENS AVENUE
PROVIDENCE RI 02905
EPA ID: RID040098352

State Manifest Number: 009987007FLE
Federal Manifest Number:

Generator Mail Address
NYSDEC
625 BROADWAY
ALBANY NY 12233
EPA ID: NYD017605551

Generator Site Address
FORMER KLINK COSMO CLEANERS
368 RICHARDSON STREET
BROOKLYN NY 11222

Manifest Line No.: 1 **Certification:** General Certificate

Treatability Group: WW / NWW

Profile Name: SPENT VAPOR PHASE CARBON
Profile Number: 145174 **Approval Code:** 145174 **Approval Status:** X

A. F001 - F005 Solvent Restrictions

This restricted waste category is banned from land disposal under 40 CFR 268.30 and is subject to one or more treatment standards under 40 CFR Subpart D.

EPA Code	Hazardous Constituent	CAS	WW Standard	NWW Standard

B. Other Regulated Waste Notification

This section includes all wastes restricted from land disposal not included in other sections. If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed in Section D.

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard

C. D001 - D043

If any treatment standards reference 40 CFR 268.48, then all underlying hazardous constituents are listed in Section D.

EPA Code	Hazardous Constituent	Waste Description and Treatment/ Regulatory Subcategory	CAS	WW Standard	NWW Standard
D039	Tetrachloroethylene	Wastes that are TC for Tetrachloroethylene based on the TCLP in SW846 Method 1311.	127-18-4	0.056 and meet §268.48 standards	6.0 and meet §268.48 standards

D. Underlying Hazardous Constituents

This section contains the list of all constituents listed in 40 CFR 268.48, Table UTS - Universal Treatment Standards, except vanadium and zinc, which can reasonably be expected to be present at the point of generation of the hazardous waste, at a concentration above the constituent-specific UTS treatment standard.

Hazardous Constituent	WW Standard	NWW Standard
Tetrachloroethylene	0.056	6.0

E. Non-Hazardous / Non-Restricted Waste

There are no EPA waste codes that are not subject to land disposal restrictions as specified in 40 CFR Subpart D or applicable prohibitions in 40 CFR 268.32 or RCRA.

I hereby notify that this shipment contains waste restricted under 40 CFR 268, Land Disposal Restrictions. I hereby certify that all information submitted in this and all attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Signature _____ Date 12/28/22

ATTACHMENT E

DETERMINATION VOC MASS REMOVAL

JOB NO.: 60629050

MADE BY: L. Hunka **DATE:** 2/8/2024

CHECKED BY: CWP/MG **DATE:** 2/16/2024

PROJECT: Klink Cosmo SVE/AS System
SUBJECT: Determine VOC Mass Removal

Problem: Chlorinated solvents including tetrachloroethylene (PCE) and trichloroethylene (TCE) have been detected in soil vapor, soil, and groundwater samples at concentrations significantly above New York State SCG values in the vicinity of the Former Klink Cosmo Cleaners Site, in Brooklyn, NY. AECOM is operating a soil vapor extraction/air sparge (SVE/AS) system at the Site to address soil and groundwater impacts.

Background: The Former Klink Cosmo Cleaners Site is located within the Meeker Avenue Plume Trackdown Site investigation area. Data gathered during investigations indicated that a source of groundwater contamination was originating near buildings formerly used by Klink Cosmo Cleaners. Adjacent to the Site, in the area where the pilot study was performed, PCE soil gas concentrations exceeded 13,000,000 micrograms per cubic meter (µg/m³).

Objectives: The primary objective of the SVE/AS system is to remove PCE and TCE contamination from the site. The purpose of this calculation is to estimate the total amount of VOCs removed and the mass removal rates.

Determination of Mass Removal:

The total mass of VOCs removed can be calculated based on the following equation:

Mass Removed = Average Concentration x Average Flowrate x Operating Duration

Where:

Mass Removed (pounds – lb)

Average Concentration (µg/m³)

Average Flowrate (ft^3/min)

Operating Duration (min)

Table 1 – SVE System Influent, Mid and Effluent Sampling Results presents the analytical results of the air samples collected on August 13 and 15, September 3, September 10, October 23, December 18, 2019, October 21, 2020, September 27, 2021 and July 19, 2023.

Table 2 – Estimate of VOC Mass Removal During SVE Operation is an Excel spreadsheet that presents the field data collected during each of the monitoring events conducted since the SVE system was started.

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Table 2 also provides a summary of the data and calculation used to determine the approximate mass of VOCs removed to February 6, 2024.

The average influent concentration was derived from data presented on Table 1. Between each sampling event an average concentration is utilized by averaging the analytical results from the most recent sampling event before and after the inspection date. From August 11,2023 onward, the most recent analytical data from July 19, 2023 is used.

The flowrate, total influent flow, and operating duration were measured during each monitoring event and recorded in the field sheets.

The mass removed was calculated using the following equation:

$$Mass\ Removed = \frac{Influent\ VOC\ Concentration\ (\mu g/m^3) \div 1{,}000{,}000(\mu g/g)}{35.315(ft^3/m^3)} \times System\ Flow\ Rate\ (cfm) \times \frac{Operating\ Duration\ (min)}{453.16(g/lb)}$$

On February 6, 2024, the system flow rate was measured and operating duration was calculated. The values for these parameters, along with the influent VOC concentration from July 19, 2023 used to calculate the mass removal, are presented below:

Influent VOC Concentration: *37,460 µg/m³ (Based on most recent data from 7/19/23)*

System Flow Rate: *201.9 cfm*

The operating duration for February 6, 2024, is calculated using the following equation:

$$Operating\ Duration = \frac{(Influent\ flow\ total_{2/6/24} - Influent\ flow\ total_{12/21/24})}{System\ Flow\ Rate}$$

$$Operating\ Duration = \frac{(390{,}714{,}965 - 377{,}036{,}838}{201.9}$$

Operating Duration = 67,747 min

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The mass removed based on the February 6, 2024 measurements is calculated below:

$$Mass\ Removed = \frac{37{,}460\ \mu g/m^3 \div 1{,}000{,}000\ \mu g/g}{35.315\ ft^3/m^3} \times 201.9\ cfm \times \frac{67{,}747\ min}{453.16\ g/lb} = 32.02\ lb$$

The mass removal rate was calculated using the following equation:

$$Mass\ Removal\ Rate = \frac{Mass\ Removed}{Operating\ Duration}$$

The mass removal rate for February 6, 2024 is calculated below:

$$Mass\ Removal\ Rate = \frac{32.02\ lb}{67{,}747\ min} = 0.000473 = 0.0005\ lb/min$$

The total mass removed to February 6, 2024 was estimated to be 2,409 pounds.