Savannah River
NUCLEAR SOLUTIONS℠

Results from the 2023-2024 Evaluation of the Soil Vapor Extraction System at the TNX Operable Unit

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LIST OF ABBREVIATIONS AND ACRONYMS

3Q2024	third quarter of 2024
4Q2024	fourth quarter of 2024
amsl	above mean sea level
bgs	below ground surface
CCl_4	carbon tetrachloride
cis-1,2-DCE	cis-1,2-dicholoethlyene
CO_2	carbon dioxide
ft	feet
lb/month	pound per month
lb/year	pound per year
m	meter
OU	Operable Unit
PCE	tetrachloroethylene
ppmv	parts per million by volume
SRNS	Savannah River Nuclear Solutions
SRS	Savannah River Site
SVE	Soil Vapor Extraction
TBG	TNX Burial Ground
TCE	trichloroethylene
VC	vinyl chloride
VOC	Volitile Organic Compound

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1.0 INTRODUCTION

Soil vapor extraction (SVE) has been deployed as a remedial action at the TNX Area Operable Unit (OU) to remove residual mass of volatile organic compounds (VOCs) from the vadose or unsaturated zone beneath the TNX Burial Ground (TBG). SVE has been deployed since 2002 and continues to operate currently. In 2022, Savannah River Site (SRS) proposed to evaluate the SVE system based on reduced VOC concentrations and reduced mass removal rates to determine if a significant amount of residual mass remains in the vadose and which SVE wells should be operated to maximize mass removal. This stand-alone report summarizes data collected from 2023-2024 to support the SVE evaluation at TNX, discusses final interpretations, and provides recommendations on future operation of SVE at TNX Area OU.

2.0 BACKGROUND

Vadose zone contamination at TNX OU is associated with the TBG and was first observed in 1995 during characterization that occurred to support the installation of an *in situ* airlift recirculation well (i.e., TVR 1A) and monitoring wells (i.e., TVM series). During this characterization, VOC contaminated soils were observed between 10.7-19.8 meters (m) (35-65 feet [ft]) below ground surface (bgs). The recirculation well was deemed unsuccessful at removing VOC mass and was terminated as a viable remedial alternative. However, the recirculation well and associated monitoring wells were resurrected to test the viability of SVE in a two-phase treatability study that started in 1997 and continued in 1999. During the treatability study, SVE was deemed a viable remedial action at the TNX Area OU. SVE was added to the Interim Record of Decision in 2003 with an Explanation of Significant Differences. In 2001, additional vadose zone characterization identified two zones of permeable sediments with high concentrations of VOCs (i.e., Zone B – 9.1-12 m [30-40 ft] bgs and Zone D – 14-17 m [45-55 ft] bgs). Based on the observations made in 2001, 12 new SVE wells (i.e., TVX series) were installed in 2002. The SVE well network at TNX consists of 20 wells, 8 TVM series wells and 12 TVX series wells (Figure 1).

Active SVE was conducted between 2002-2004 using a portable SVE unit that applied vacuum to a subset of the SVE wells. The SVE wells connected to the SVE unit were rotated periodically to

make sure all SVE wells were connected. While active SVE was operating, the following activities were conducted: baseline sampling, multi-well SVE testing, rebound testing, vented SVE, and low-flow testing to simulate MicroBlower™ operation. Mass removal rates during active remediation diminished with time, suggesting large quantities of VOC mass were not present in the vadose zone. MicroBlowers™ were determined to be adequate for continued mass removal. MicroBlowers™ are solar powered SVE units that are installed at individual SVE wells. From 2005-2006, SVE was temporarily terminated during the construction of the T-Area OU cover system. Starting in 2007, five MicroBlowers™ and 15 BaroBalls™ were in operation. The five MicroBlowers™ were rotated between the 20 SVE wells periodically to optimize VOC mass removal. When not connected to a MicroBlower™, the SVE wells were connected to a BaroBall™. Soil clean up levels were not established for the vadose zone sediment associated with the TNX Area OU. The Core Team agrees that the T-Area OU cover system should not be penetrated for the collection of soil samples based on contamination that was left in place underneath the cover system.

BaroBalls™ are passive SVE units that contain a check valve consisting of an o-ring and ping pong ball inside of a PVC housing. During atmospheric low-pressure events, vadose zone soil vapor flows out of the SVE wells pushing up on the ping pong ball and allowing VOC mass to be released to the atmosphere. During atmospheric high-pressure events, atmospheric air pushes down on the ping pong ball creating a seal with the o-ring preventing atmospheric air from entering the subsurface.

3.0 SVE PERFORMANCE AND EVALUATION

Since SVE started operation at TNX in 2002, the annual total VOC mass removed from the vadose zone has been calculated (Figure 2). The calculation includes the concentration of VOCs in the soil vapor and the flow rate of soil vapor passing through either the active SVE unit when it operated or an individual MicroBlower™. Annual mass removal rates have decreased with time. Spikes in the annual mass removed or rebounds have occurred in 2007, after the temporary period of shutdown during construction of the T-Area OU cap, and in 2011 and 2015 when MicroBlowers™ were rotated to new SVE wells. Although rebound was observed, total mass

continued to decline. From 2016 to 2024 the annual total mass removed was about 1 pound per year (lb/year) or less. In 2021, SRS was in the process of selecting new SVE wells to be connected to the MicroBlowers™ when it was determined that the historical record of VOC concentrations at each SVE were not representative of actual conditions due to the SVE only being sampled when connected to a MicroBlower™. Instead of rotating the MicroBlowers™ blindly, SRS proposed an SVE evaluation plan to the Core Team in May 2022. The Core Team was receptive to the idea of an evaluation but requested it be formally proposed in the 2021 Annual Comprehensive TNX Groundwater Monitoring and Remedial Action Effectiveness Interim Report which was submitted in August 2022 (Savannah River Nuclear Solutions, LLC [SRNS] 2022).

The evaluation was designed to contain multiple parts, each of which would provide an adequately sized data set to support informed decision-making associated with the project objectives. The objectives of the evaluation were to:

- Determine the VOC concentrations and mass removal rates at each SVE well,
- Evaluate the location of residual VOC mass in the vadose zone,
- Optimize wells to maximize future VOC mass removal, and
- Establish criteria for shutdown of the SVE system.

To achieve these objectives, SRS planned and executed a series of sampling events, with and without the MicroBlowers™ operating, as well as a rebound test. The evaluation proceeded in the following order:

- Initial sampling event (baseline) of individual SVE wells using a vacuum pump,
- Shutdown period for three months (no sampling),
- Second sampling event (post-shutdown) of individual SVE wells using a vacuum pump,
- High frequency sampling of individual SVE wells while connected to a MicroBlower™, and
- Final sampling event of individual SVE wells using a vacuum pump.

The initial, second, and final individual SVE well sampling events were conducted to observe the VOC concentration from all SVE wells at one point in time. The initial individual sampling event provided a good baseline event. The second individual sampling event provided some insight into which wells experience rebounding VOC concentrations after the shutdown. The final individual sampling event provided an additional data point that should resemble baseline conditions. All of these individual sampling events used a portable vacuum unit for sample collection.

During the shutdown period, all SVE wells were be capped, and the five MicroBlowers™ were not operated. The shutdown allowed residual VOC mass to volatilize and diffuse into the pore space of the vadose zone sediments. The shutdown period of three months was adequate time for VOC mass to volatilize and for a change in VOC concentration to be observed between the initial and second sampling events.

The high frequency sampling events were conducted at select groups of SVE wells (Table 1) until all SVE wells had been sampled. Results from the high frequency sampling event help determine if residual VOC mass is present within the zone of capture of each SVE well. The high frequency sampling events had a MicroBlower™ connected to an SVE well for sample collection. The MicroBlower™ operated for four weeks with daily samples being collected during the first week and weekly samples for the second, third, and fourth weeks. SVE wells were recapped after high frequency sampling ended and the MicroBlowers™ were removed.

In addition to sampling for VOCs, carbon dioxide (CO_2) and flow rate were also measured. The CO_2 measurement allows the sampler to verify that the vapor is from the subsurface. Subsurface vapor has a significantly higher CO_2 concentration (1,000-10,000 parts per million by volume [ppmv]) than atmospheric air (200-300 ppmv). Verifying that the soil vapor extracted through the SVE wells has a higher CO_2 concentration than atmospheric air is a good indication that the vacuum pump and the MicroBlower™ have a good seal with the SVE well and all vapor being collected is representative of the vadose zone. The flow rate was measured during the high frequency group sampling and was used to determine how consistent the MicroBlowers™ were operating and was utilized in mass removal calculations.

3.1 Sampling Method

Vapor samples were collected two ways during the evaluation. During the three individual sampling events, a portable vacuum unit was connected to each SVE well to extract vapor from the subsurface (Figure 3). During the high frequency sampling events, the SVE wells were connected to a MicroBlower™ and vapor was extracted through the MicroBlower™ (Figure 4).

The vapor samples were collected in 20 mL vials with crimp-seal caps using a modified EPA Method 18 and EPA Method 5021A. The process of filling the bottles involved tubing from the vacuum pump or the MicroBlower™, a sealable plastic bag, vial, cap, and crimping tool (Figure 5). With the vial and cap inside the sealable plastic bag, vapor was allowed to fill the bag. The bag was purged at least three times to ensure the vapor in the bag is representative of soil vapor from the well and not atmospheric air. Once the bag was purged, the bag was sealed, the cap was placed on the vial, and the cap was sealed through the bag with the crimper tool. This is the sample method currently used to collect vapor samples from all SVE wells at SRS. It was developed by Savannah River National Laboratory in the mid-1990's. Once collected, the samples were analyzed using EPA Method 5021A at a contracted laboratory.

Atmospheric air entering an open SVE well is a potential concern. The presence of atmospheric air could dilute the sample and provide lower soil vapor concentrations. To reduce or eliminate the presence of atmospheric air, SVE wells are open for the shortest duration possible. Potential times for an SVE well to be open are in periods of transition (i.e., disconnecting a BaroBall™ and inserting a cap, uncapping to connect a MicroBlower™, uncapping to connect the vacuum pump, etc.). To prevent atmospheric air from entering a MicroBlower™, they are only sampled when operational and therefore actively purging. When a MicroBlower™ is not operational, a BaroBall™ seals atmospheric or ambient air out of the system preventing it from entering the subsurface. Therefore, all gas exiting the MicroBlower™ when operational should consist of soil vapor. When a vacuum pump is used, the site procedure recommends a minimum of a 15-minute purge before measuring the carbon dioxide concentration. After carbon dioxide concentrations are confirmed to be representative of subsurface soil vapor, a sample is collected. If carbon dioxide concentrations are considered low, then connections at the well head and with the vacuum pump

are checked and adjusted before starting a second 15-minute purge. If a tight connection cannot be made, then the carbon dioxide concentration is recorded, and a soil vapor sample is not collected.

4.0 SVE EVALUATION STATUS

The SVE evaluation started on June 5, 2023, with the disconnection of the five MicroBlowers™ (at wells TVM-001-V, TVM-003-V, TVM-004-U, TVX-004-U, and TVX-007-U), disconnection of the 15 BaroBalls™ from all other SVE wells, and the capping of all SVE wells to prevent any venting. The initial or baseline sampling event of all individual SVE wells was conducted over a two-day period on June 9 and 10, 2023. The shutdown period with no operation of SVE or sampling started on June 12, 2023, and ended on September 14, 2023. The second or post-shutdown sampling event of all individual SVE wells was conducted on September 15 and 16, 2023. High frequency sampling of the defined SVE groups took place on the following dates:

- Group 1 – September 25, 2023, to October 16 2023,
- Group 2 – October 23, 2023, to November 13 2023,
- Group 3 – November 27, 2023, to December 18, 2023,
- Group 4 – January 8, 2024, to January 29, 2024,
- Group 5 – February 5, 2024, to February 26, 2024,
- Group 6 – March 11, 2024, to April 1, 2024,
- Group 7 – April 8, 2024, to April 29, 2024, and
- Group 8 – May 6, 2024, to May 27, 2024.

The final sampling event for individual SVE wells started on May 31, 2024 and ended on June 1, 2024. Afterward the evaluation concluded, five MicroBlowers™ were connected to the five SVE wells (i.e., TVM-002-U, TVM-003-U, TVM-004-V, TVX-004-L, and TVX-007-L) with the maximum observed TCE concentrations, based on results from the post-shutdown sampling event, to maximize VOC mass removal. The MicroBlower™ on well TVX-007-L was later moved to TVX-007-U because of low flow issues. Results from the five operating MicroBlowers™ in the third quarter of 2024 (3Q2024) and fourth quarter of 2024 (4Q2024) are presented in Section 5.3 and in Appendix A.

5.0 RESULTS

This section provides the results collected during 2023 and 2024 in support of this evaluation, which includes the baseline sampling event, post-shutdown sampling event, high frequency samples, and final sampling event. The results will also include the 3Q2024 and 4Q2024 soil vapor results collected from the five operating MicroBlowers™. Results are provided in in Appendix A. Figures 6 through 15 provide graphical representations of the results.

Calculated mass removal rates were completed for each SVE well using the results collected during the high frequency group sampling. The contaminant mass removed from each SVE well is determined using vapor concentrations and volumetric flow rates measured at each MicroBlower™. The vapor concentrations of each VOC constituent were averaged and then totaled to calculate the total VOC concentration exiting the MicroBlower™. The flow rates were then averaged for the month of data collection. The total VOC concentration is multiplied by the average flow rate. Unit conversions are integrated into these calculations. The product provides the total mass removed for a 30-day collection period, or one month. It is assumed that a MicroBlower™ only operates for 12 hours each day. Appendix B presents the calculations for each well in tabular form.

Samples collected during the TNX SVE Evaluation were analyzed for twelve constituents. In the calculations, five constituents were used (i.e., tetrachloroethylene [PCE]; trichloroethylene [TCE]; cis-1,2-dichloroethylene [cis-1,2-DCE]; vinyl chloride [VC]; and carbon tetrachloride [CCl_4]) based on the refined constituent of concern for the TNX Area OU plus degradation products of PCE and TCE. The results for these constituents are provided in Appendix A. The results for all other constituents are provided in Appendix C (Appendix C is included as a Excel spreadsheet [i.e., .xlsx file] on the CD submittal due to the number of data entries and to limit document size). Although other constituents were detected above the method detection limit (i.e., toluene, trichlorofluoromethane, and chloroform) they were not included in the evaluation.

5.1 Individual Sampling Events

The baseline event was conducted on June 9 and 10, 2023. TCE and PCE were the primary constituents observed above detection limits during this sampling event. TCE was detected in 7 of 20 SVE wells. The maximum TCE concentration was observed at TVM-003-U with a concentration of 0.108 ppmv. PCE was detected at two SVE wells, TVM-004-U and TVX-007-U, with a maximum concentration of 0.0294 ppmv.

The post-shutdown sampling event was conducted on September 15 and 16, 2023. TCE; PCE; cis-1,2-DCE; VC; and CCl_4 were observed above the detection limit during this sampling event. TCE was detected in 11 of 20 SVE wells. The maximum concentration was observed at TVM-003-U with a concentration of 0.173 ppmv. The majority of the TCE detections observed during this sampling event were greater in concentration than was observed during the initial sampling event (Figure 6). PCE was detected at two SVE wells, TVM-004-U and TVX-007-U, with a mximum concentration of 0.0399 ppmv. Cis-1,2-DCE was detected in two SVE wells, TVM-001-U and TVX-006-L. VC was detected in one SVE well, TVX-006-L. $CC1_4$ was detected in two SVE wells, TVM-004-V and TVX-007-U. CO_2 concentrations were higher at most locations during the post-shutdown event compared to the baseline (Figure 7).

The final sampling event was conducted on May 31, 2024 and June 1, 2024, four days after the high frequency group sampling event. TCE; PCE; cis-1,2-DCE; and VC were observed above the detection limit during this sampling event. TCE was detected in 8 of 20 SVE wells. The maximum concentrations were observed in TVM-002-U with a concentration of 0.226 ppmv. For TCE, it was observed that some wells had final sampling results that were much higher than the post-shutdown values while some TCE concentrations were much lower. PCE was detected at only two SVE wells, TVM-002-U and TVM-004-U, with a maximum concentration of 0.021 ppmv. Cis-1,2-DCE was detected in one SVE well, TVX-006-L. VC was detected in one SVE well, TVX-006-L. $CC1_4$ was non-detect in all SVE wells. CO_2 concentrations were approximately equal to or less than those observed during post-shutdown sampling.

5.2 High Frequency Group Sampling Events

Group 1 sampling was conducted from September 25 through October 16, 2023, from three SVE wells (i.e., TVM-003-V, TVX-002-L, and TVX-004-U). The change in TCE concentration at each well in Group 1 is presented in Figure 8. During the four weeks of operation, the following VOC removal rates for Group 1 were estimated (Table B-1):

- TVM-003-V removed 2.81×10^{-3} pounds of VOCs per month (lb/month) or 3.38×10^{-2} lb/year.
- TVX-002-L removed 1.60×10^{-5} lb/month or 1.92×10^{-4} lb/year.
- TVX-004-U removed 1.28×10^{-3} lb/month or 1.54×10^{-2} lb/year.

Group 2 sampling was conducted from October 23 through November 13, 2023, from two SVE wells (i.e., TVM-001-V and TVX-007-U). The change in TCE concentration at each well in Group 2 is presented in Figure 9. During the four weeks of operation, the following VOC removal rates for Group 2 were estimated (Table B-2):

- TVM-001-V removed 2.77×10^{-4} lb/month or 3.33×10^{-3} lb/year.
- TVX-007-U removed 1.16×10^{-2} lb/month or 0.140 lb/year.

Group 3 sampling was conducted from November 27 through December 18, 2023, from four SVE wells (i.e., TVM-002-V, TVX-002-U, TVX-004-L, and TVX-006-L). The change in TCE concentration at each well in Group 3 is presented in Figure 10. During the four weeks of operation, the following VOC removal rates for Group 3 were estimated (Table B-3):

- TVM-002-V removed 1.72×10^{-3} lb/month or 2.06×10^{-2} lb/year.
- TVX-002-U removed 2.59×10^{-3} lb/month or 3.10×10^{-2} lb/year.
- TVX-004-L removed 1.11×10^{-3} lb/month or 1.34×10^{-2} lb/year.
- TVX-006-L removed 7.19×10^{-4} lb/month or 8.63×10^{-3} lb/year.

Group 4 sampling was conducted from January 8 through January 29, 2024, from two SVE wells (i.e., TVM-004-V and TVX-005-U). The change in TCE concentration at each well in Group 4 is

presented in Figure 11. During the four weeks of operation, the following VOC removal rates for Group 4 were estimated (Table B-4):

- TVM-004-V removed 1.74×10^{-3} lb/month or 2.09×10^{-2} lb/year.
- TVX-005-U removed 2.05×10^{-4} lb/month or 2.46×10^{-3} lb/year.

Group 5 sampling was conducted from February 5 through February 26, 2024, from three SVE wells (i.e., TVX-003-L, TVX-006-U, and TVX-007-L). The change in TCE concentration at each well in Group 5 is presented in Figure 12. During the four weeks of operation, the following VOC removal rates for Group 5 were estimated (Table B-5):

- TVX-003-L removed 1.33×10^{-5} lb/month or 1.60×10^{-4} lb/year.
- TVX-006-U removed 9.50×10^{-4} lb/month or 1.14×10^{-2} lb/year.
- TVX-007-L removed 3.15×10^{-4} lb/month or 3.78×10^{-3} lb/year.

Group 6 sampling was conducted from March 11 through April 1, 2024, from two SVE wells (i.e., TVM-003-U and TVX-005-L). The change in TCE concentration at each well in Group 6 is presented in Figure 13. During the four weeks of operation, the following VOC removal rates for Group 6 were estimated (Table B-6):

- TVM-003-U removed 5.43×10^{-3} lb/month or 6.51×10^{-2} lb/year.
- TVX-005-L removed 2.19×10^{-5} lb/month or 2.63×10^{-4} lb/year.

Group 7 sampling was conducted from April 8 through April 29, 2024, from two SVE wells (i.e., TVM-002-U and TVX-001-L). The change in TCE concentration at each well in Group 7 is presented in Figure 14. During the four weeks of operation, the following VOC removal rates for Group 7 were estimated (Table B-7):

- TVM-002-U removed 1.64×10^{-2} lb/month or 0.197 lb/year.
- TVX-001-L removed 9.84×10^{-4} lb/month or 1.18×10^{-2} lb/year.

Group 8 sampling was conducted from May 6 through May 27, 2024, from two SVE wells (i.e., TVM-001-U and TVX-004-U). The change in TCE concentration at each well in Group 8 is

presented in Figure 15. During the four weeks of operation, the following VOC removal rates for Group 8 were estimated (Table B-8):

- TVM-001-U removed 4.37×10^{-4} lb/month or 5.25×10^{-3} lb/year.
- TVX-004-U removed 1.61×10^{-3} lb/month or 1.93×10^{-2} lb/year.

The CO_2 concentrations collected during the high frequency group sampling were consistent, remaining high (>10,000 ppmv) throughout the sampling, with the exception of TVX-003-L. CO_2 concentrations at TVX-003-L were observed to drop from around 4000 ppmv to between 1000 and 2000 ppmv immediately after the MicroBlower™ was put into operation.

5.3 Post SVE Evaluation Results

The five SVE wells selected for continued use (i.e., TVM-002U, TVM-003-U, TVM-004-V, TVX-004-L, and TVX-007-L) were sampled in 3Q2024. Well TVM-002-U had the highest TCE concentration of 0.139 ppmv and was the only well with detections of other constituents (CCl4 and PCE). Wells TVM-003-U, TVM-004-L, and TVX-007-L had TCE concentrations of 0.0652, 0.0125, and 0.0501 ppmv respectively. TVM-004-V was non-detect for TCE. Due to low flow issues at TVX-007-L, TVX-007-U was brough online as a replacement. In 4Q2024, wells TVM-002-U and TVM-003-U had TCE concentrations of 0.104 and 0.05 ppmv respectively. PCE was the only other VOC detected at TVM-002-U in 4Q2024. The other three wells (i.e., TVM-004-V, TVX-004-L, and TVX-007-U) returned non-detect values for all constituents. Results from the post SVE evaluation sampling events are presented in Table A-10.

6.0 DISCUSSION AND CONCLUSION

The discussion in this section focuses on results collected during the three individual sampling events, the high frequency group sampling event, and the post SVE evaluation (i.e., 3Q2024 and 4Q2024) sampling events.

The three individual sampling events included the baseline, post-shutdown, and final sampling events where all 20 SVE wells were sampled during a two-day period. The baseline sampling event was conducted shortly after disconnecting the five MicroBlowers™ that were operating from January to June 2023. Results from the baseline sampling show that PCE and TCE were the

primary constituents, which is consistent with results previously reported in the recent annual TNX reports. TCE concentrations observed in the baseline event were low and were associated with low CO_2 concentrations. It is anticipated that the low TCE and CO_2 concentrations could be the result of leaky BaroBalls™. Because of the simplistic nature of the BaroBall™, it is possible for debris to enter the BaroBall™ and prevent a good seal from occurring between the ping pong ball and the o-ring, allowing atmospheric air to slowly dilute the vadose zone with oxygenated air.

An expanding locking cap was placed in each SVE well to reduce atmospheric air from entering the subsurface. The SVE wells remained capped and inactive for three months during the shutdown period. The post-shutdown results indicate that during the shutdown the expanding caps prevented or reduced atmospheric air from entering the vadose zone as CO_2 concentrations increased significantly at most SVE wells. This is a positive indication that the vapor being removed during the post-shutdown sampling was not influenced by atmospheric air and is a better representation of normal vadose zone conditions; therefore, the data from the final sampling and group sampling events will be compared to the post-shutdown sampling event instead of the baseline sampling event. During the post-shutdown sampling event, TCE concentrations increased at 10 of 20 SVE wells. This indicates that VOC mass is residing in the vadose zone sediments and diffusing into the pore space in the vapor-phase. Without atmospheric air to dilute this process or SVE operations removing the VOC vapor, VOC concentrations increase with time. Although increases in TCE concentrations were observed, the overall TCE concentrations were still low, with the maximum TCE concentration being less than 0.2 ppmv. This is a positive indication that the active SVE unit and MicroBlowers™ have been continually removing VOC mass from the vadose zone since 2002.

Other VOC constituent concentrations also increased during the shutdown period; PCE concentrations increased at two wells (i.e., TVM-004-U and TVX-007-U), cis-1,2-DCE concentrations increased at two wells (i.e., TVM-001-U and TVX-006-L), VC concentrations increased at one well (i.e., TVX-006-L), and CCl_4 concentrations increased at two wells (i.e., TVM-004-V and TVX-007-U). The presence of TCE degradation daughters (i.e., cis-1,2-DCE

and VC) could indicate that there is some natural degradation occurring in the vadose zone. It could also be reflecting degradation occurring based on the edible oil injections that were also deployed in this same area. CCl_4 is a constituent that was also used at the TNX facilities and discharged to the vadose zone via the TBG. The mass of CCl_4 that resides in the vadose zone was generally significantly less than TCE, consistent with these results. The CCl_4 concentrations that increased during the post-shutdown sampling remain low, with the maximum CCl_4 concentration being less than 0.1 ppmv.

The final sampling event was conducted four days after high frequency sampling ended. Thirteen wells showed a change in TCE concentrations between the post-shutdown and the final sampling events. Out of the thirteen, a decrease in TCE concentrations was observed at nine (i.e., TVM-002-V, TVM-003-U, TVM-003-V, TVM-004-U, TVM-004-V, TVX-004-L, TVX-004-U, TVX-007-L and TVX-007-U). The decrease in TCE concentrations was unexpected. Most of the SVE units were offline for at least a few months before the final individual sampling event, which should have allowed residual VOC mass to diffuse into the pore space and reach an equilibrium condition resembling post-shutdown. Lower concentrations during the final sampling could indicate that the SVE units reduced TCE concentration in the soils during operation and there is not enough mass around the wells for a rebound to be seen. The fact that TCE concentrations did not rebound supports that there is low residual TCE mass in the TNX soils.

A similar trend was observed with the other constituents during the final individual sampling event. PCE concentrations decreased at one well (i.e., TVX-007-U) and stayed the same or increased slightly at two wells (i.e., TVM-002-U and TVM-004-U). PCE concentrations remained less than 0.025 ppmv during the final individual sampling event at all wells. Cis-1,2-DCE concentrations decreased at two wells (TVM-001-U and TVX-006-L). VC concentrations decreased at one well (i.e., TVX-006-L). CCl_4 decreased at two wells (i.e., TVM-004-U and TVX-007-U). The results support the conclusion that there is low residual VOC mass in TNX soils.

The high frequency group sampling results that were elevated correspsond to the same SVE wells that had increased TCE concentrations during the post-shutdown sampling (i.e., TVM-002-U, TVM-002-V, TVM-003-U, TVM-003-V, TVM-004-U, TVM-004-V, TVX-004-L, and

TVX-007-L). SVE wells with TCE concentrations below the detection limit during post-shutdown (i.e., TVM-001-U, TVM-001-V, TVX-001-L, TVX-002-L, TVX-002-U, TVX-003-L, TVX-005-L, TVX-005-U, and TVX-006-U) continued to be below detection limits during group sampling. Four wells (i.e., TVX-002-U, TVM-001-V, TVX-001-L, and TVM-001-U) were an exception with TCE concentrations increasing to slightly above the detection level. TVX-007-U was the only well with a decrease in TCE concentration during the post-shutdown sampling and displayed constant low concentrations during group sampling.

All the trendlines displayed in Figures 8 through 15 can be divided into four categories: 1) concentrations that were low and stayed low; 2) constant concentrations; 3) concentrations trending upwards; and 4) concentrations trending downwards. Each SVE well was placed in a category as listed below:

- Category 1 – TVX-002-L, TVM-001-V, TVX-005-U, TVX-003-L,TVX-006-U, TVX-001-L, TVM-001-U, and TVX-005-L.
- Category 2 – TVX-007-U, TVX-002-U, TVX-004-L, TVM-004-V, TVM-003-U, and TVX-007-L.
- Category 3 – TVX-004-U, TVX-006-L, and TVM-002-V.
- Category 4 –TVM-003-V, TVM-002-U, and TVM-004-U.

The results of the high frequency sampling event were used to calculate a monthly and annual mass removal rate at each SVE well (Tables A-2 through A-9 in Appendix A and Appendix B). The total annual mass removed by all MicroBlowers™ was 0.603 lb (Table 2). Selecting the top five producing wells (i.e., TVM-002-U, TVM-003-U, TVM-003-V, TVX,002-U, and TVX-007-U) a total annual mass removed of 0.466 lb could potentially be achieved, which is 77% of the total removed by all wells. The mass removed at all the SVE wells is a reflection of the VOC concentration and the flow rate. For the top five SVE wells, TVM-002-U and TVM-003-U had the highest VOC concentrations with average flow rates while TVM-003-V, TVX-002-U, and TVX-007-U have lower VOC cocentrations but higher than average flow rates.

After the SVE evaluation was complete in the field but before all analytical results had returned from the laboratory, SRS connected the five MicroBlowers™ to five SVE wells (i.e., TVM-002-U, TVM-003-U, TVM-004-V, TVX-004-L, and TVX-007-L). Those five SVE wells were selected based on rebound concentrations observed in the post-shutdown sample results, and the MicroBlowers™ operated in 3Q2024 and 4Q2024. The MicroBlower™ at TVX-007-L was disconnected based on low flow rates causing the blower moter to overheat. The MicroBlower™ was placed on TVX-007-U. Sample results from the third and fourth quarters can be used to further evaluate the results collected during the SVE evaluation. TCE concentrations at TVM-002-U were declining during the high frequency sampling and continued to decline in the 3Q2024 and 4Q2024. The TCE concentrations at TVM-003-U were relatively constant during high frequency group sampling and declined during 3Q2024 and 4Q2024. SVE wells TVM-004-V, TVX-004-L, and TVX-007-U had constant concentration trends in the high frequency group sampling and concentrations declined to below detection limits during 4Q2024. The declining VOC concentrations observed at some SVE during two months of operation is an indication that the MicroBlowers™ are removing mass at a rate greater than mass is diffusing from the subsurface sediments. If longer MicroBlower™ operation causes VOC concentrations to decline with time, it can be assumed that the acutal mass removed from the top five mass emitting wells will be less than the mass calculated (0.466 lb) from the high frequency sampling. Shorter duration operating periods (i.e., 1-2 months) between rotating the MicroBlowers™ to the highest mass contributors could help to remove additional mass from the subsurface, but the effect would likely not increase mass removal to be greater than 0.5 lbs/yr.

The TNX SVE evaluation was executed in 2023-2024 as proposed by SRS and agreed to by the Core Team. The MicroBlowers™ have operated efficiently with no down-time due to mechanical issues. Soil vapor concentrations correlated positively between the samples collected with a portable vacuum pump during the individual SVE sampling and the samples collected from the MicroBlowers™ during the group sampling. The combination of little to no rebound that occurred between the post-shutdown and final individual sampling events, the general steady or declining concentration trends during the high frequency sampling, and the declining concentrations during post evaluation operation of the MicroBlowers™ are indications that SVE has removed a

significant amount of mass from the vadose zone beneath the TBG at the TNX OU since 2002. Residual mass is still present in the subsurface sediments at minimal quantities. The potential impacts of that residual VOC mass to groundwater will likely be insignificant based on very low observed vapor concentrations, and, in addition, any mass that might migrate to the groundwater will come in contact with the neat edible oil deployed in the capillary fringe and water table aquifer. Future impacts to groundwater can only be assessed by observing VOC concentrations within the monitoring wells near and down gradient of the TBG.

Contaminant migration modeling or comparison to cleanup levels cannot be conducted without the collection of soil samples. The Core Team agrees that the T-Area OU cover system cannot be penetrated for the collection of soil samples based on contamination that was left in place underneath the cover system. Without cleanup levels for comparison, the annual VOC mass removed at TNX Area OU can be compared to annual VOC mass removed at other operable units that have recently achieved cleanup levels using SVE (i.e., A-Area Burning Rubble Pit/Miscellaneous Chemical Basin/Metals Burning Pit [ABRP/MCB/MCB] OU and A-Area Miscellaneous Rubble Pile [AMRP] OU). In 2024, the ABRP/MCB/MBP OU removed 0.923 lb of VOCs from the ABRP subunit and 2.3 lb from the MCB subunit (SRNS 2025). Between 2019 and 2020, the AMRP OU removed 3.6 lb of VOCs (SRNS 2020). The discontinuation of SVE as a remedial action at these two operable units is pending Core Team approval for the ABRP/MCB/MBP OU and was approved for AMRP in 2021. TNX mass removal rates have declined to less than one pound per year since 2020 and will potentially not improve even under an optimized scenario with the best TNX SVE wells connected to MicroBlowers. SRS believes the SVE remedial action at the TNX OU has been successful at removing VOC mass from the subsurface.

7.0 RECOMMENDATIONS

Based on the findings presented in this SVE evaluation, the SVE remediation system has removed a significant amount of mass and only insignificant residual VOC mass remains. SRS proposes to discontinue SVE as a remedial action at the TNX OU. Discontinued SVE would involve the dismantle and removal of all MicroBlowers™ and BaroBalls™. The SVE wells would be temporarily capped until they can be appropriately abandoned. Select SVE wells will be kept for use in future neat edible oil injections if needed. Wells TVX-001-L, TVX-002-L, TVX-003-L, TVX-004-L, TVX-005-L, TVX-006-L, TVX-007-L, TVM-001-V, TVM-002-U, TVM-003-U, TVM-004-U have been identified as potential wells to keep as they are the deepest wells, or the only wells, at each location. Monitoring of groundwater monitoring wells will continue to observe any potential contaminant migration from the vadose zone to the water table. A meeting with the Core Team to present these results and discuss the recommended shutdown of the SVE system at TNX OU will be scheduled if requested.

8.0 REFERENCES

SRNS, 2020. Performance Evaluation Report for the A-Area Miscellaneous Rubble Pile (731-6A) Operable Unit – April 2019 through April 2020, SRNS-RP-2020-00279, Revision 0, July 2020, Savannah River Nuclear Solutions, LLC, Savannah River Site, Aiken, SC

SRNS, 2022. 2021 Annual Comprehensive TNX Area Groundwater Monitoring and Remedial Action Effectiveness Interim Report (U), SRNS-RP-2022-00627, Revision 0, August 2022, Savannah River Nuclear Solutions, LLC, Savannah River Site, Aiken, SC

SRNS, 2025. Performance Evaluation Report for the A-Area Burning/Rubble Pits (731-A, -1A) and Rubble Pits (731-2A) and Miscellaneous Chemical Basin/Metals Burning Pit (731-4A, -5A) Operable Unit -January through December 2024, SRNS-RP-2025-00079, Revision 0, May 2025, Savannah River Nuclear Solutions, LLC, Savannah River Site, Aiken, SC

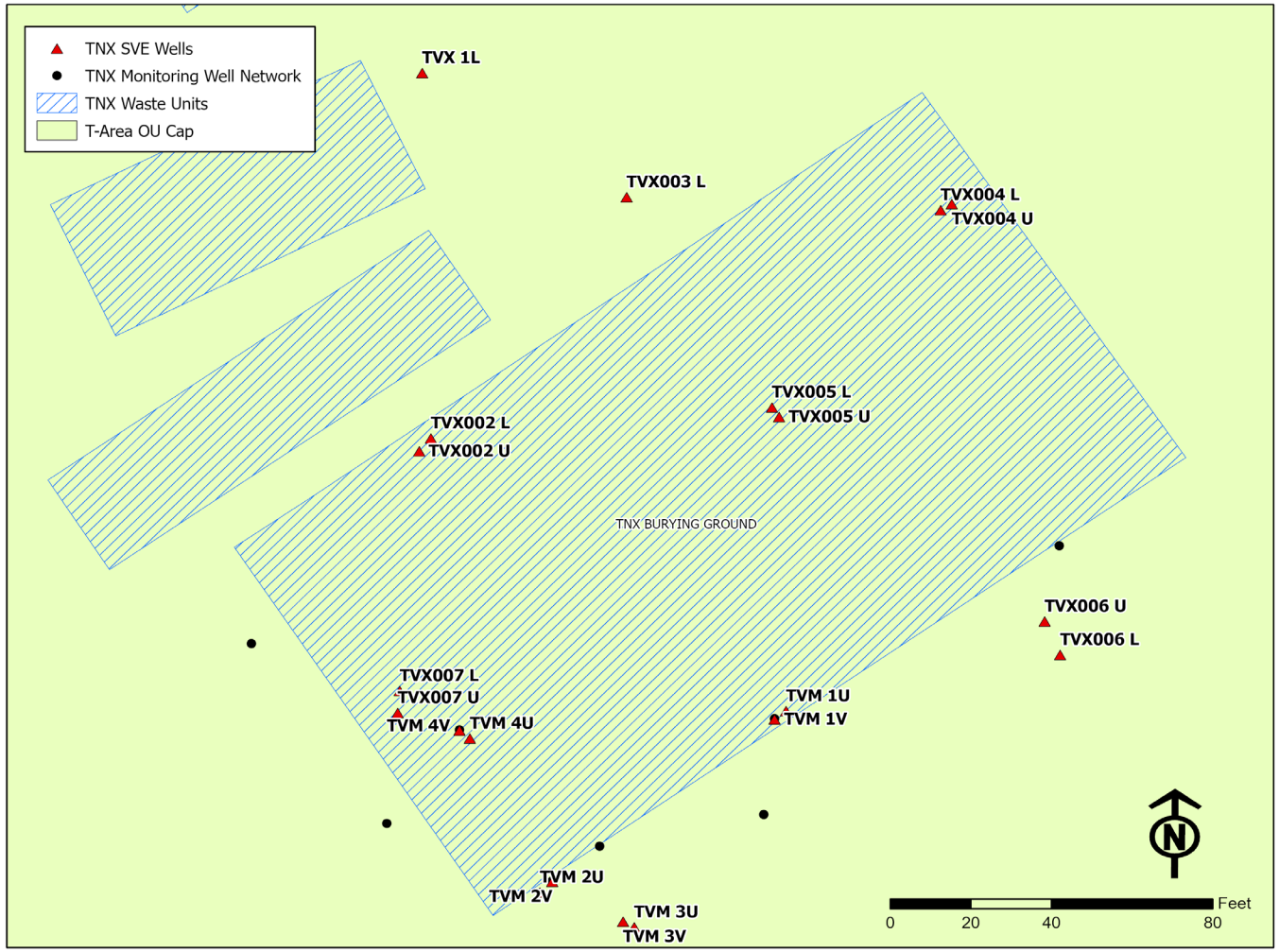

Figure 1. Location of SVE Wells at TNX Area OU.

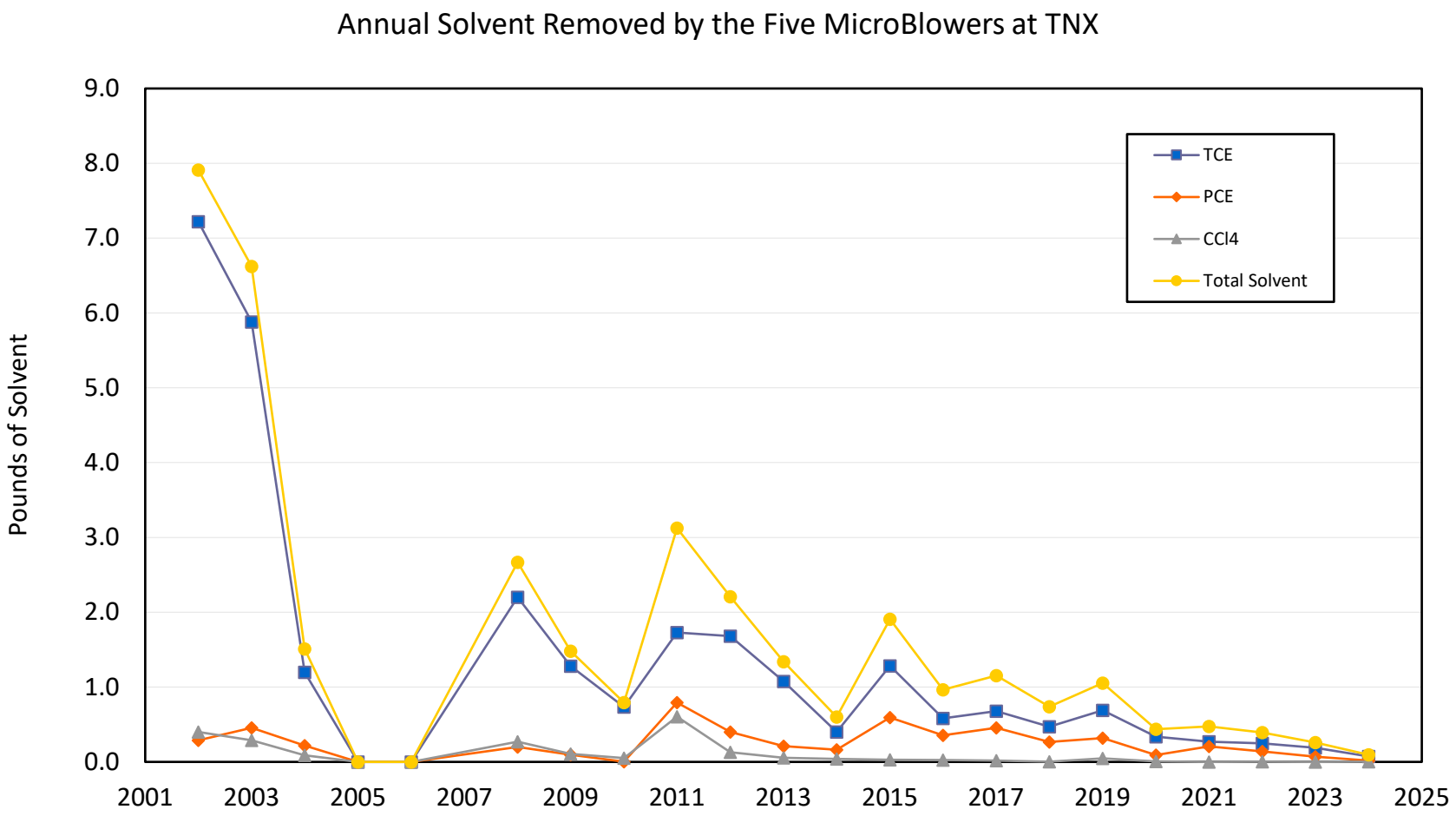

Figure 2. Total Annual VOC Mass Removed from the TNX OU SVE Wells.

Figure 3. Diagram of Collecting a Soil Vapor Sample from an SVE Well using a Vacuum Pump.

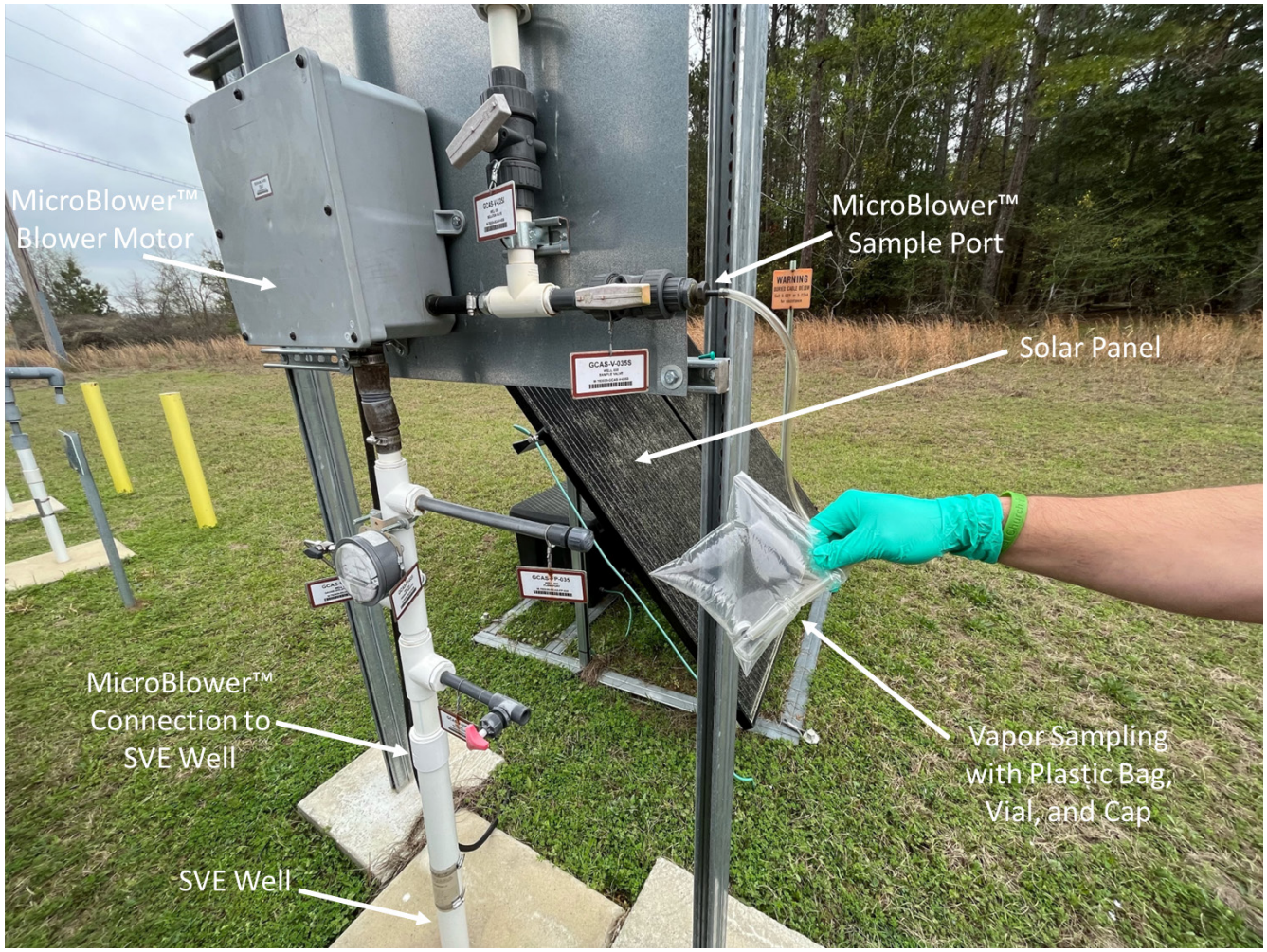

Figure 4. Diagram of Collecting a Soil Vapor Sample from a MicroBlower™.

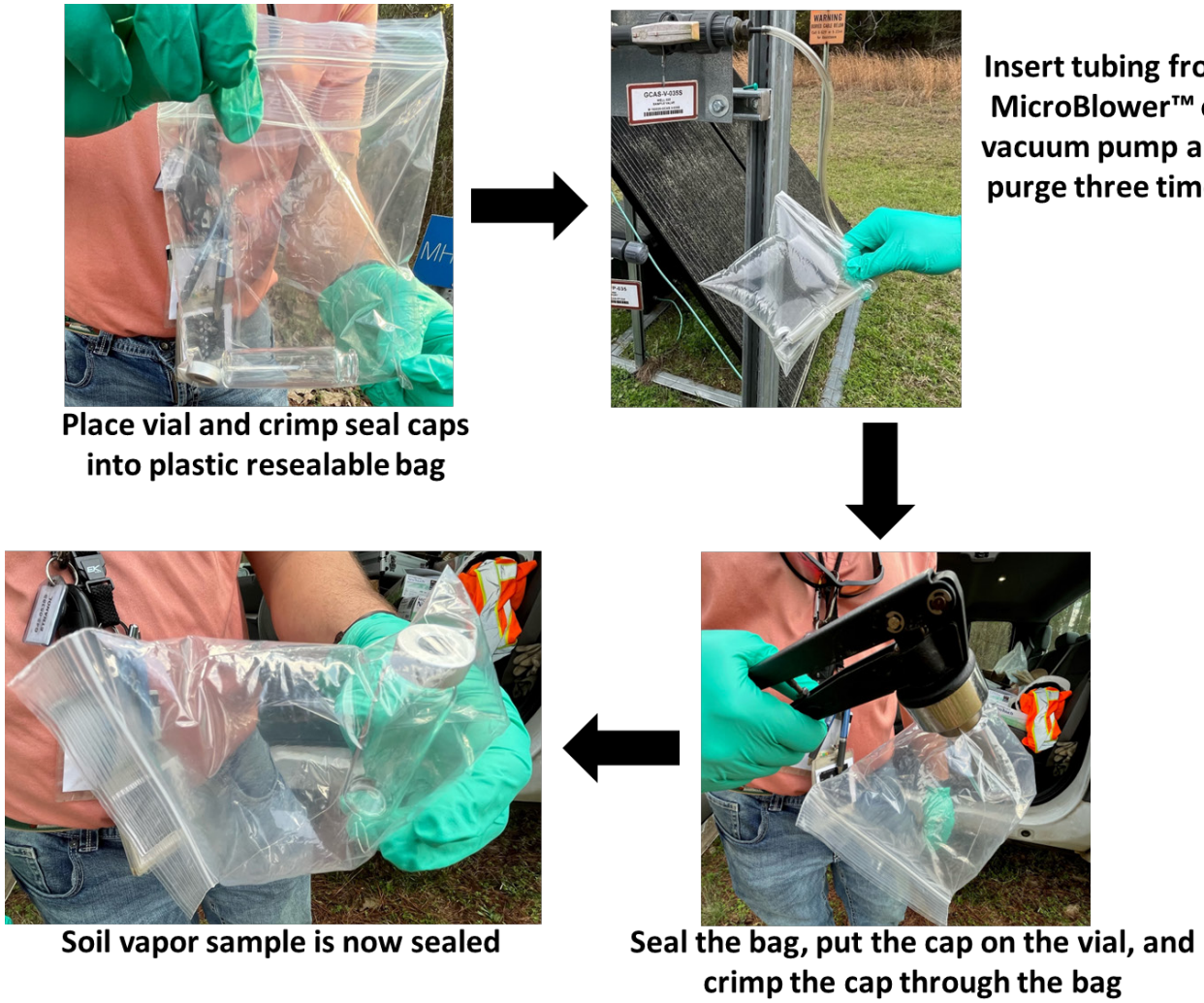

Figure 5. Photographs Documenting How a Soil Vapor Sample is Collected at SRS.

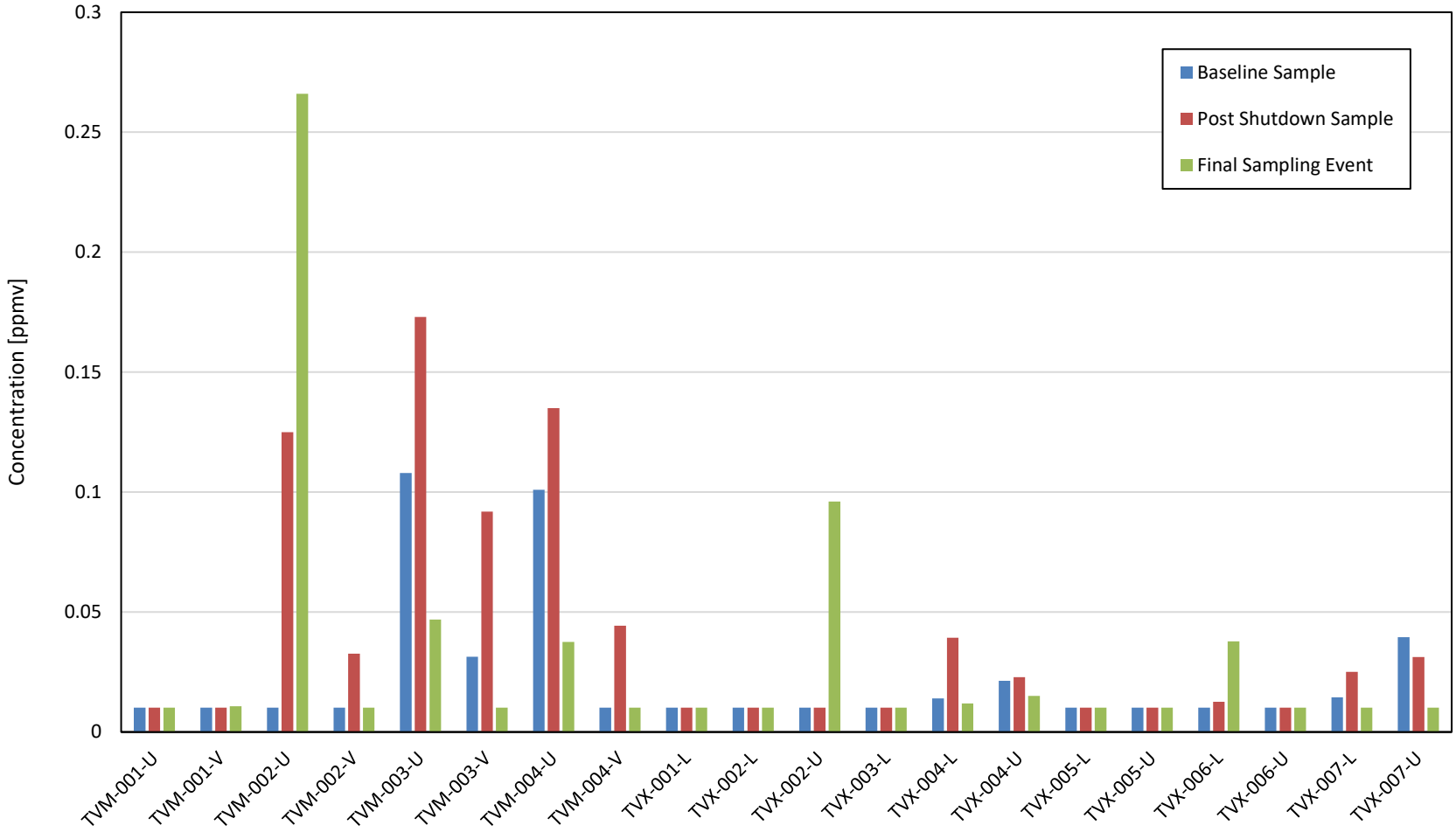

Figure 6. TCE Concentration at TNX SVE Wells During Individual Sampling Events.

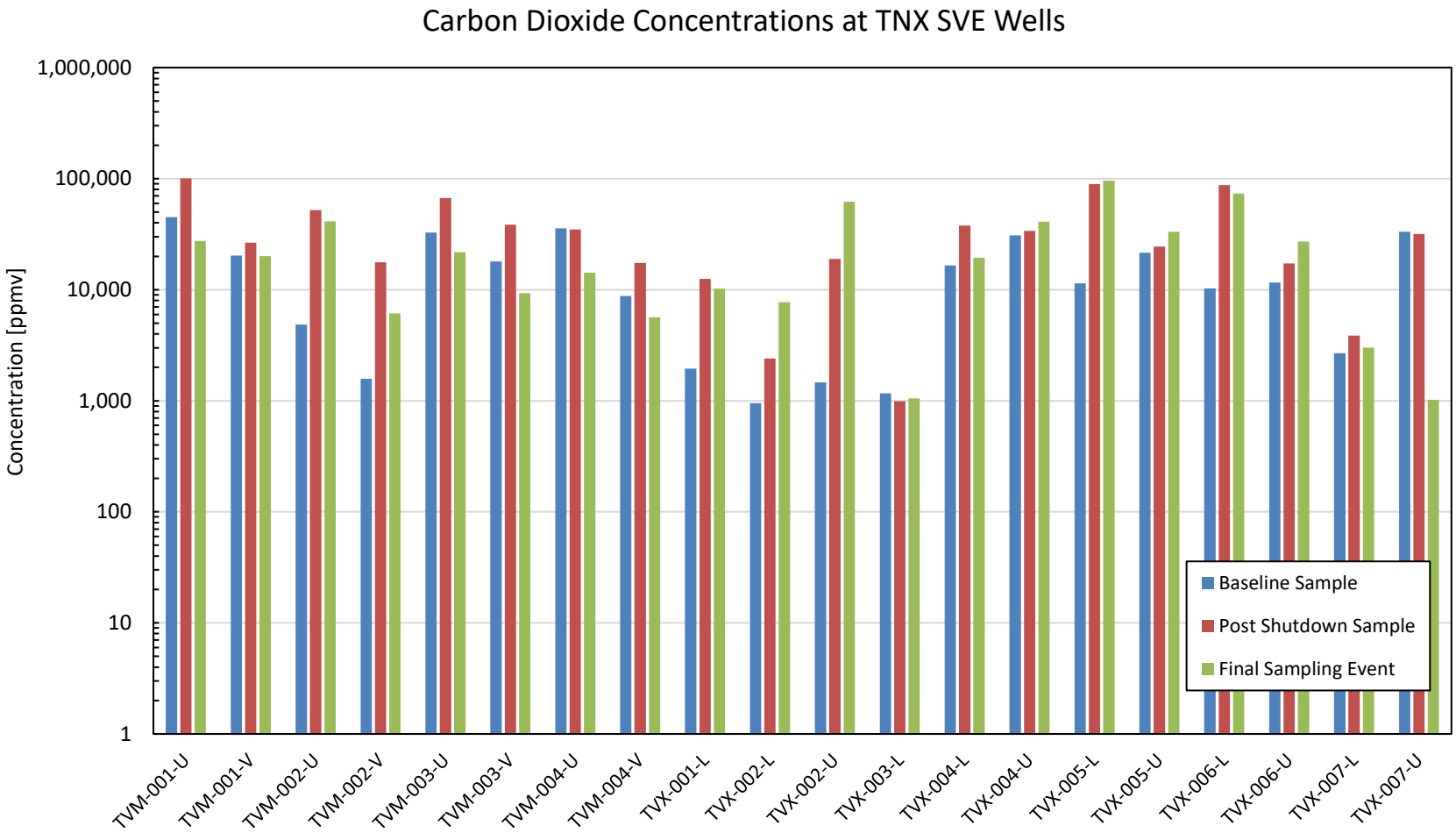

Figure 7. Carbon Dioxide Concentration at TNX SVE Wells During Individual Sampling Events.

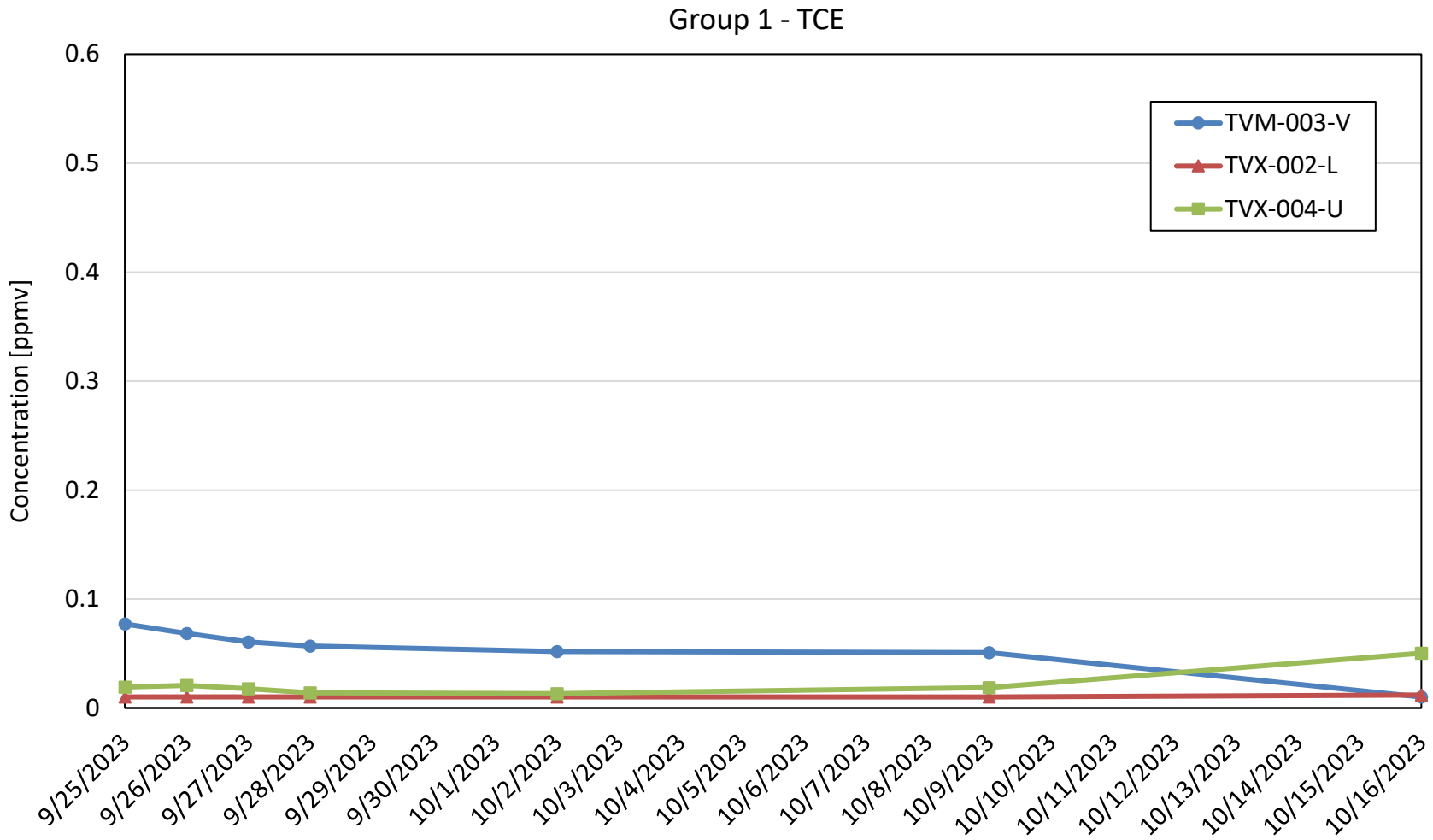

Figure 8. TCE Concentrations Observed During Group 1 High Frequency Sampling Event.

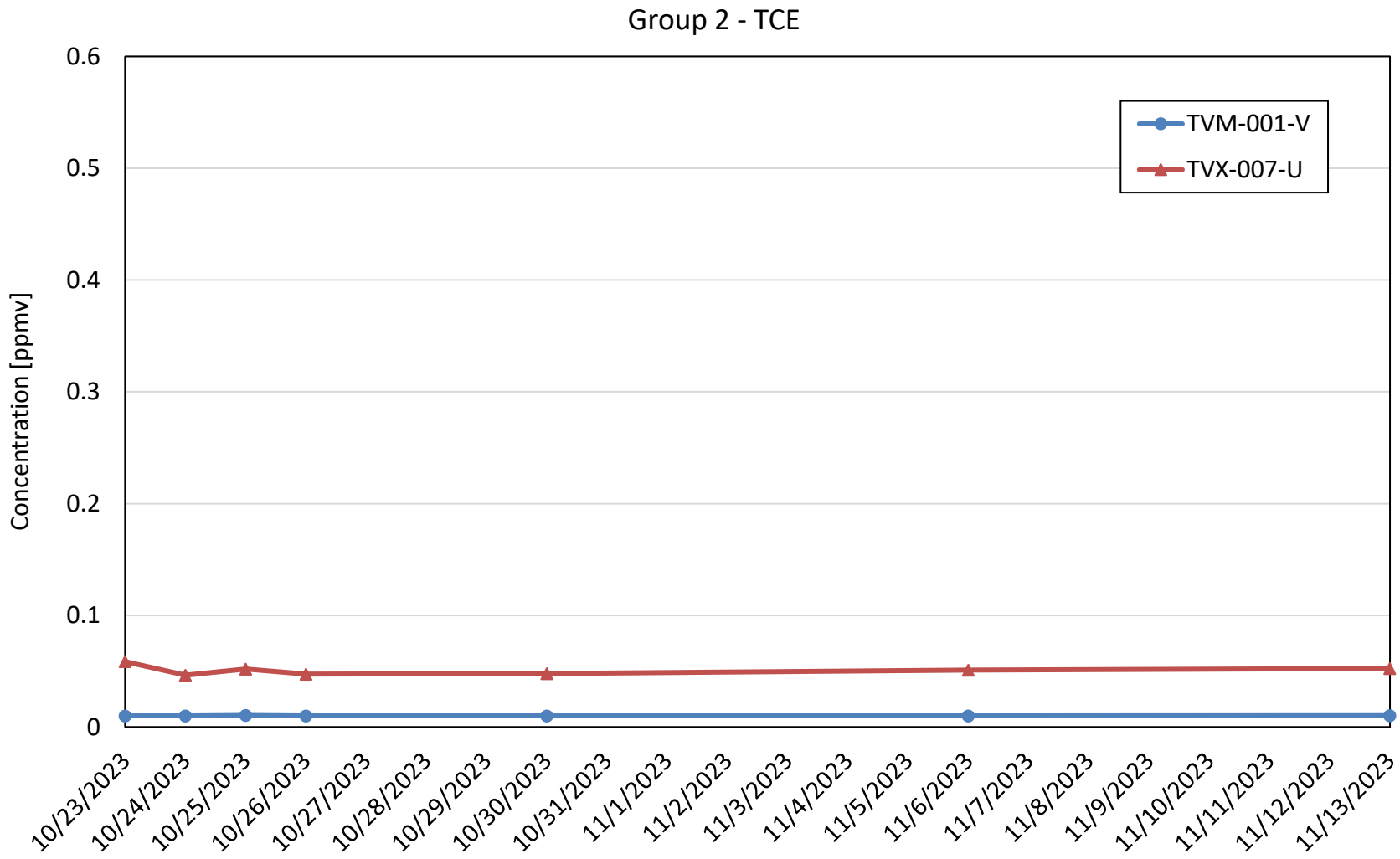

Figure 9. TCE Concentrations Observed During Group 2 High Frequency Sampling Event.

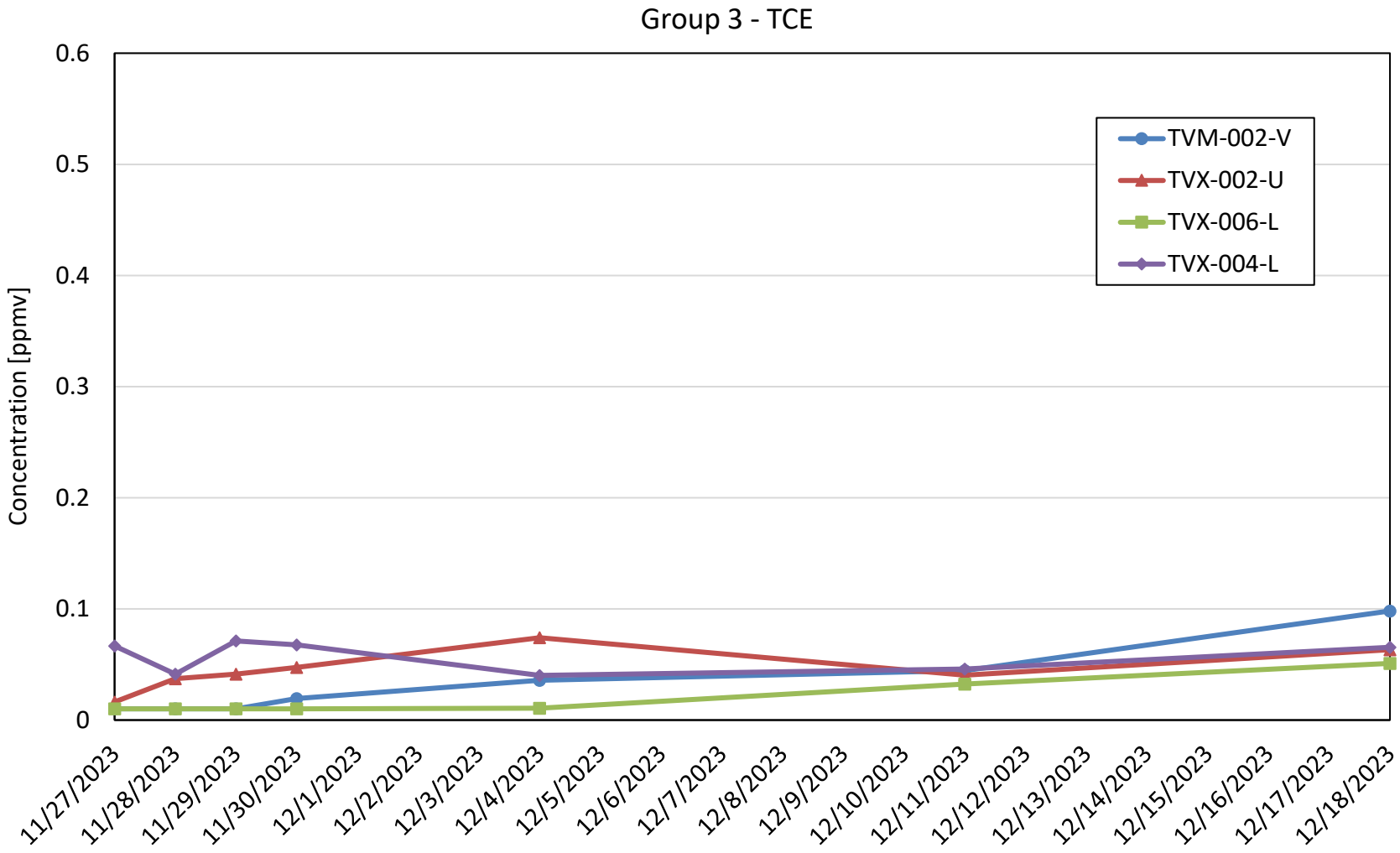

Figure 10. TCE Concentrations Observed During Group 3 High Frequency Sampling Event.

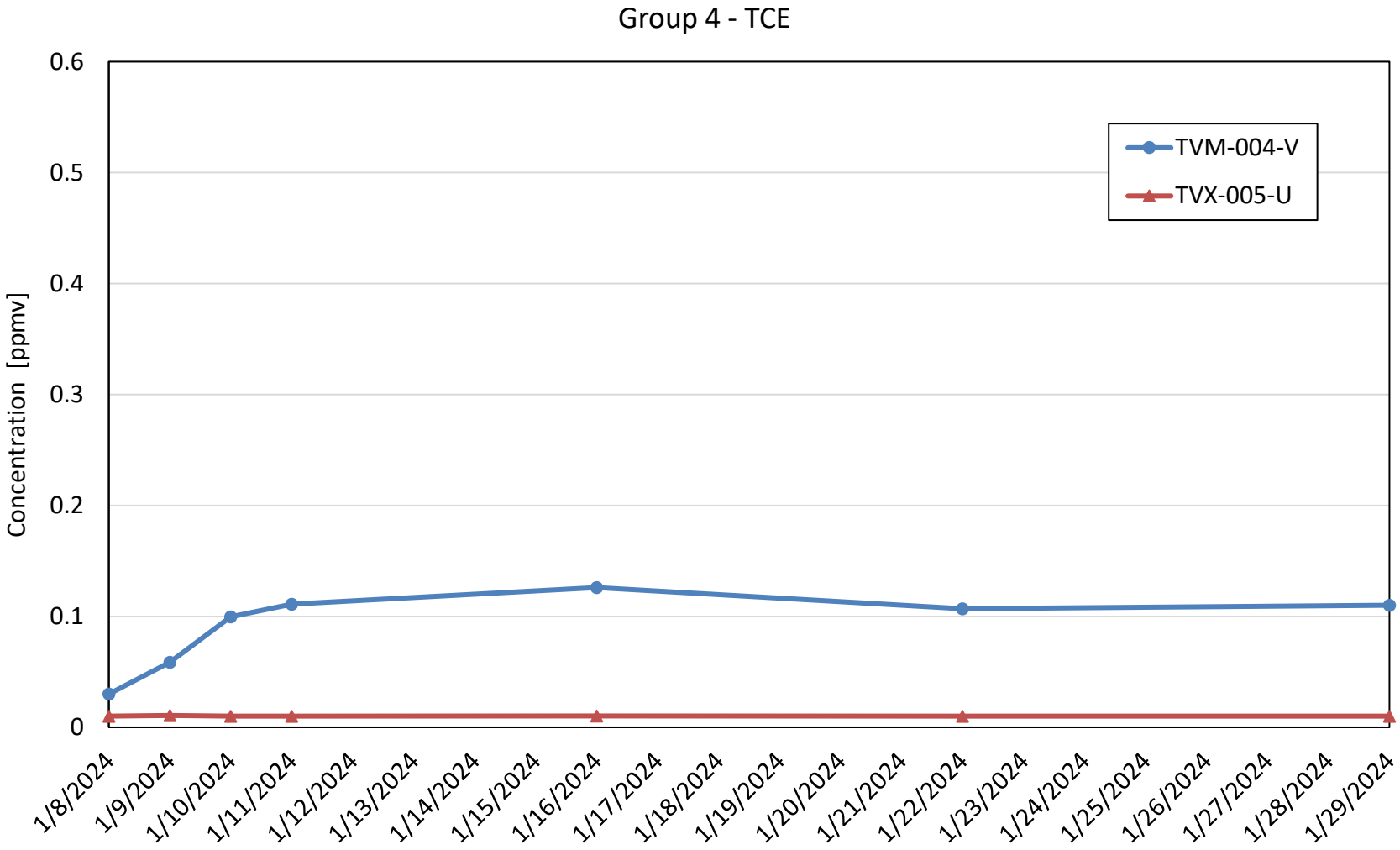

Figure 11. TCE Concentrations Observed During Group 4 High Frequency Sampling Event.

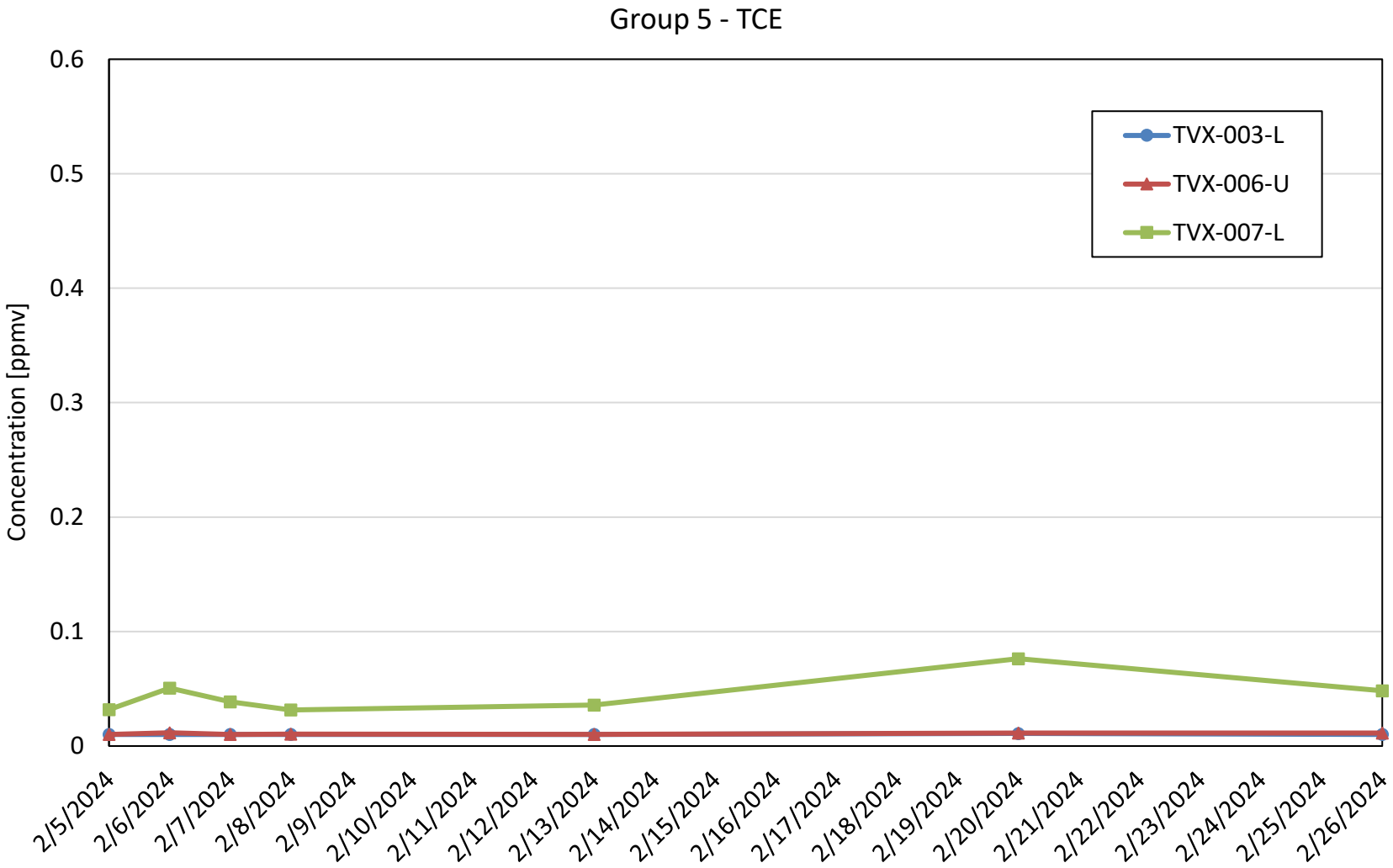

Figure 12. TCE Concentrations Observed During Group 5 High Frequency Sampling Event**.**

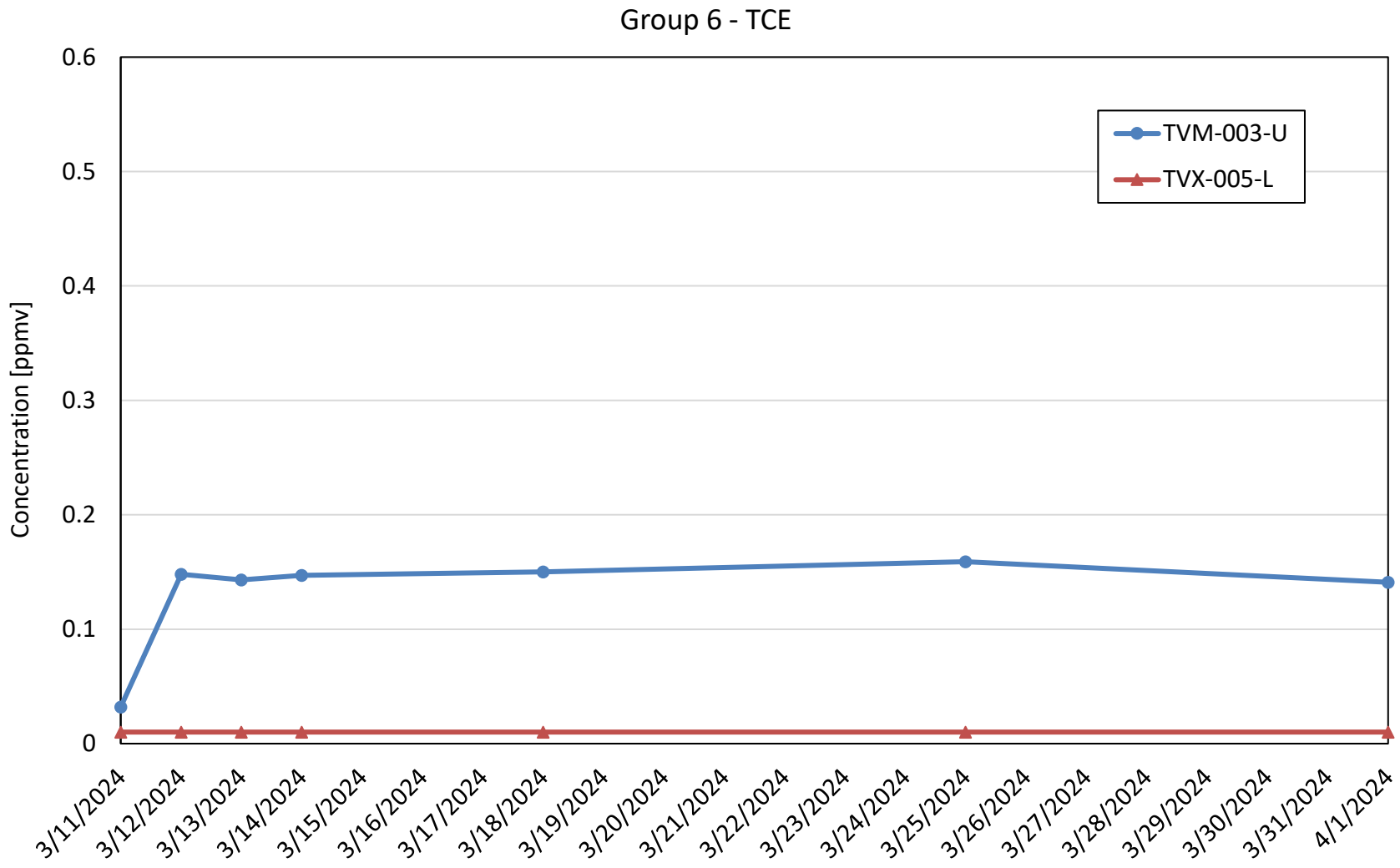

Figure 13. TCE Concentrations Observed During Group 6 High Frequency Sampling Event.

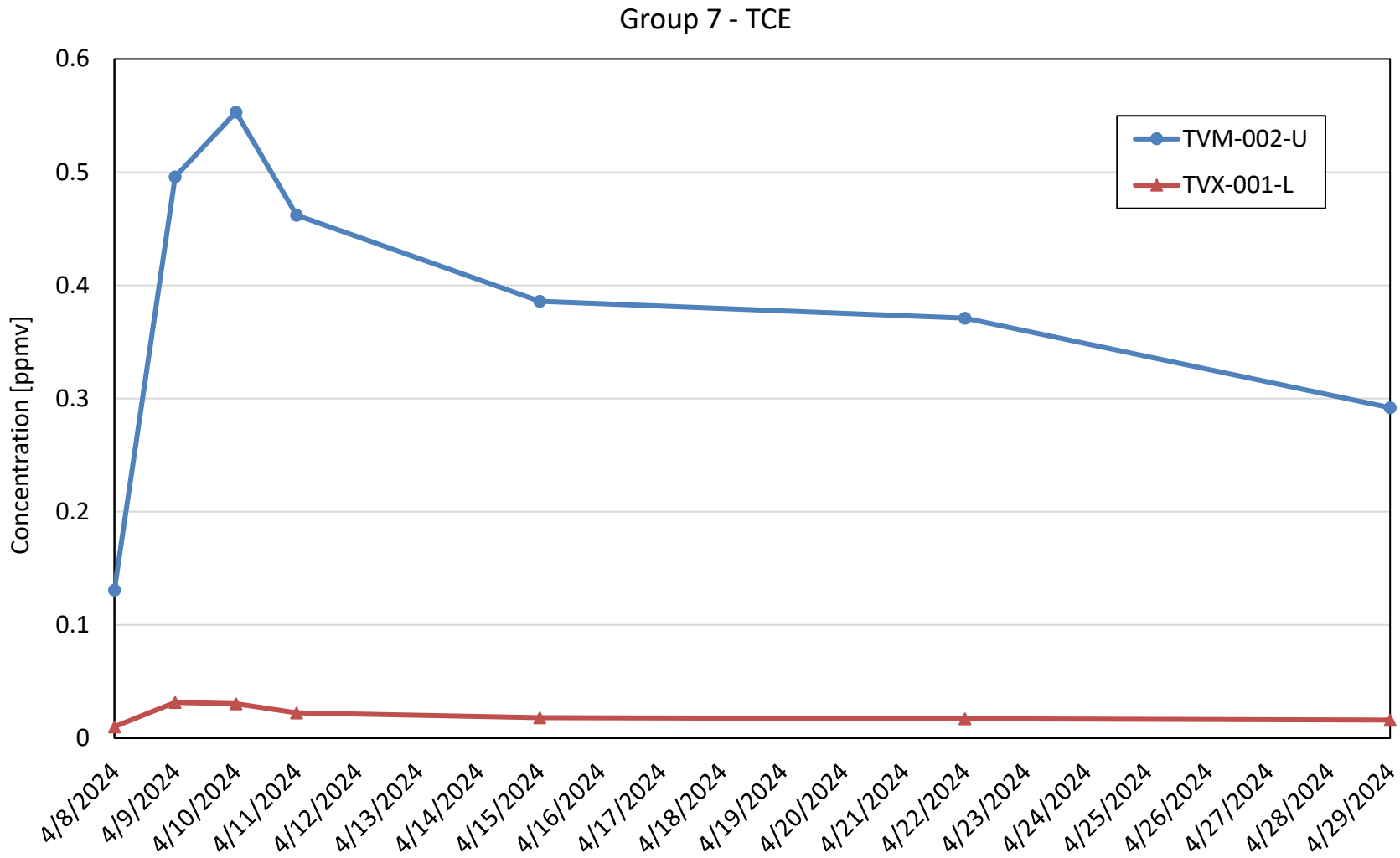

Figure 14. TCE Concentrations Observed During Group 7 High Frequency Sampling Event.

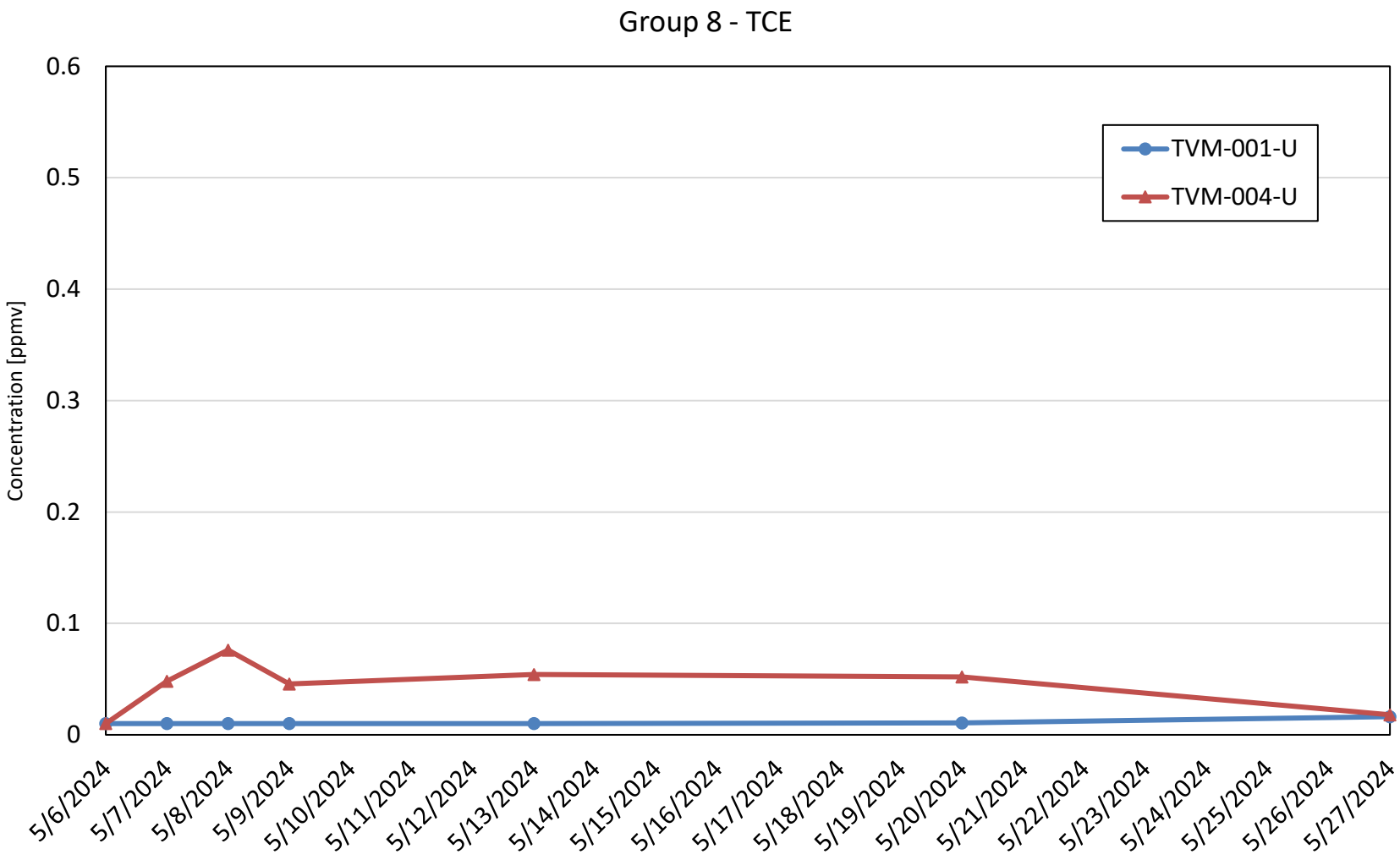

Figure 15. TCE Concentrations Observed During Group 8 High Frequency Sampling Event

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Table 1. High Frequency Sampling SVE Well Groups.

SVE Evaluation Group	Well Name	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Screen Length (ft)	Ground Elevation (ft amsl)
1	TVM-003-V	42.01	44.01	2	159.01
1	TVX-002-L	44.38	64.38	20	156.64
1	TVX-004-U	22.05	37.05	15	153.05
2	TVM-001-V	42.08	44.08	2	157.28
2	TVX-007-U	29.04	39.04	10	158.85
3	TVM-002-V	42.79	44.79	2	159.39
3	TVX-002-U	26.85	36.85	10	156.52
3	TVX-004-L	43.85	55.85	12	152.95
3	TVX-006-L	47.69	62.69	15	155.18
4	TVM-004-V	43.65	44.65	1	158.87
4	TVX-005-U	27.76	42.76	15	155.2
5	TVX-003-L	41.8	56.8	15	154.1
5	TVX-006-U	37.84	52.84	15	155.19
5	TVX-007-L	43.54	58.54	15	159
6	TVM-003-U	47.6	57.6	10	158.9
6	TVX-005-L	46.92	56.92	10	155.16
7	TVM-002-U	47.53	57.53	10	159.53
7	TVX-001-L	40.89	55.89	15	153.15
8	TVM-001-U	38.12	48.12	10	157.7
8	TVM-004-U	47.87	57.89	10.02	158.87

SVE – Soil Vapor Extraction
ft – feet
ft bgs – feet below ground surface
ft amsl – feet above mean sea level

Table 2. Sum of Mass Emissions and Comparison Between Scenarios.

Group	Source	Category	Annual Mass Emissions[1]	Top Five Annual Mass Emissions[1]
7	TVM-002-U	4	1.97E-01	1.97E-01
2	TVX-007-U	2	1.40E-01	1.40E-01
6	TVM-003-U	2	6.51E-02	6.51E-02
1	TVM-003-V	4	3.38E-02	3.38E-02
3	TVX-002-U	2	3.10E-02	3.10E-02
4	TVM-004-V	2	2.09E-02	
3	TVM-002-V	3	2.06E-02	
8	TVM-004-U	4	1.93E-02	
1	TVX-004-U	3	1.54E-02	
3	TVX-004-L	2	1.34E-02	
7	TVX-001-L	1	1.18E-02	
5	TVX-006-U	1	1.14E-02	
3	TVX-006-L	3	8.63E-03	
8	TVM-001-U	1	5.25E-03	
5	TVX-007-L	2	3.78E-03	
2	TVM-001-V	1	3.33E-03	
4	TVX-005-U	1	2.46E-03	
6	TVX-005-L	1	2.63E-04	
1	TVX-002-L	1	1.92E-04	
5	TVX-003-L	1	1.60E-04	
		Total	6.03E-01	4.66E-01
		Percent Decrease	0.00%	22.70%

1 - Mass emissions are shown in pounds per year (lb/yr)

Appendix A

Results from Individual and High Frequency Sampling Events

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Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-001-U	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	45100				ppmv
TVM-001-U	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	100340				ppmv
TVM-001-U	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	27400				ppmv
TVM-001-U	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-001-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-001-U	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-001-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-001-U	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0108		0.0102	0.0102	ppmv
TVM-001-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.227		0.0102	0.0102	ppmv
TVM-001-U	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	20320				ppmv
TVM-001-V	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	26600				ppmv
TVM-001-V	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	20070				ppmv
TVM-001-V	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-001-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-001-V	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-001-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-001-V	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0107		0.0101	0.0101	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-002-U	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	4840				ppmv
TVM-002-U	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	52100				ppmv
TVM-002-U	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	41200				ppmv
TVM-002-U	Final	5/31/2024	FD	Field Measure	CARBON DIOXIDE	41200				ppmv
TVM-002-U	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-002-U	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Final	5/31/2024	FD	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-002-U	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Final	5/31/2024	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Final	5/31/2024	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.021		0.0101	0.0101	ppmv
TVM-002-U	Final	5/31/2024	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0215		0.0101	0.0101	ppmv
TVM-002-U	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.125		0.0102	0.0102	ppmv
TVM-002-U	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.266		0.0101	0.0101	ppmv
TVM-002-U	Final	5/31/2024	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.268		0.0101	0.0101	ppmv
TVM-002-V	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	1580				ppmv
TVM-002-V	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	17700				ppmv
TVM-002-V	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	6130				ppmv
TVM-002-V	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-002-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-002-V	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-002-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-002-V	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-002-V	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0326		0.0102	0.0102	ppmv
TVM-002-V	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	32700				ppmv
TVM-003-U	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	67000				ppmv
TVM-003-U	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	21800				ppmv
TVM-003-U	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-U	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-U	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.108		0.0102	0.0102	ppmv
TVM-003-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.173		0.0102	0.0102	ppmv
TVM-003-U	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0469		0.0101	0.0101	ppmv
TVM-003-V	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	18000				ppmv
TVM-003-V	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	38600				ppmv
TVM-003-V	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	9300				ppmv
TVM-003-V	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-V	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-003-V	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0314		0.0102	0.0102	ppmv
TVM-003-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0919		0.0102	0.0102	ppmv
TVM-003-V	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	35800				ppmv
TVM-004-U	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	34900				ppmv
TVM-004-U	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	14200				ppmv
TVM-004-U	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-004-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-004-U	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-004-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-004-U	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0114		0.0101	0.0101	ppmv
TVM-004-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.014		0.0101	0.0101	ppmv
TVM-004-U	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0153		0.0101	0.0101	ppmv
TVM-004-U	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.101		0.0102	0.0102	ppmv
TVM-004-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.135		0.0102	0.0102	ppmv
TVM-004-U	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0375		0.0101	0.0101	ppmv
TVM-004-V	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	8790				ppmv
TVM-004-V	Baseline	6/9/2023	FD	Field Measure	CARBON DIOXIDE	8790				ppmv
TVM-004-V	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	17500				ppmv
TVM-004-V	Post-Shutdown	9/15/2023	FD	Field Measure	CARBON DIOXIDE	17500				ppmv
TVM-004-V	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	5630				ppmv
TVM-004-V	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-004-V	Baseline	6/9/2023	FD	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0227		0.00993	0.00993	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	FD	EPA5021A	CARBON TETRACHLORIDE	0.0215		0.00993	0.00993	ppmv
TVM-004-V	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-004-V	Baseline	6/9/2023	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-004-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-004-V	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Baseline	6/9/2023	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Baseline	6/9/2023	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Baseline	6/9/2023	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0443		0.0102	0.0102	ppmv
TVM-004-V	Post-Shutdown	9/15/2023	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0429		0.0102	0.0102	ppmv
TVM-004-V	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	1950				ppmv
TVX-001-L	Baseline	6/10/2023	FD	Field Measure	CARBON DIOXIDE	1950				ppmv
TVX-001-L	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	12500				ppmv
TVX-001-L	Post-Shutdown	9/16/2023	FD	Field Measure	CARBON DIOXIDE	12500				ppmv
TVX-001-L	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	10200				ppmv
TVX-001-L	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-001-L	Baseline	6/10/2023	FD	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	FD	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-001-L	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-001-L	Baseline	6/10/2023	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-001-L	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Baseline	6/10/2023	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-001-L	Post-Shutdown	9/16/2023	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Baseline	6/10/2023	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Baseline	6/10/2023	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Post-Shutdown	9/16/2023	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	950				ppmv
TVX-002-L	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	2400				ppmv
TVX-002-L	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	7740				ppmv
TVX-002-L	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-L	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-L	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-L	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-L	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-L	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	1460				ppmv
TVX-002-U	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	18900				ppmv
TVX-002-U	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	62100				ppmv
TVX-002-U	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-U	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-002-U	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-U	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0961		0.0101	0.0101	ppmv
TVX-003-L	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	1170				ppmv
TVX-003-L	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	990				ppmv
TVX-003-L	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	1050				ppmv
TVX-003-L	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-003-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-003-L	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-003-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-003-L	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	16600				ppmv
TVX-004-L	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	37900				ppmv
TVX-004-L	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	19400				ppmv
TVX-004-L	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-L	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued/end).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-004-L	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-L	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.014		0.0102	0.0102	ppmv
TVX-004-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0393		0.0102	0.0102	ppmv
TVX-004-L	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0119		0.0101	0.0101	ppmv
TVX-004-U	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	30900				ppmv
TVX-004-U	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	33800				ppmv
TVX-004-U	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	41000				ppmv
TVX-004-U	Final	6/1/2024	FD	Field Measure	CARBON DIOXIDE	41000				ppmv
TVX-004-U	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-U	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Final	6/1/2024	FD	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-U	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-U	Final	6/1/2024	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-U	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Final	6/1/2024	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Final	6/1/2024	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0214		0.0102	0.0102	ppmv
TVX-004-U	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0229		0.0102	0.0102	ppmv
TVX-004-U	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0151		0.0101	0.0101	ppmv
TVX-004-U	Final	6/1/2024	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0157		0.0101	0.0101	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued/end).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-005-L	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	11400				ppmv
TVX-005-L	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	89500				ppmv
TVX-005-L	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	95800				ppmv
TVX-005-L	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-005-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-005-L	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-005-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-005-L	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	21500				ppmv
TVX-005-U	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	24500				ppmv
TVX-005-U	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	33300				ppmv
TVX-005-U	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-005-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-005-U	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-005-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-005-U	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued/end).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-006-L	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	10300				ppmv
TVX-006-L	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	87200				ppmv
TVX-006-L	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	73500				ppmv
TVX-006-L	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-006-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-006-L	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-006-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.0189		0.00999	0.00999	ppmv
TVX-006-L	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.0149		0.0100	0.0100	ppmv
TVX-006-L	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-L	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.07		0.0102	0.0102	ppmv
TVX-006-L	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0422		0.0102	0.0102	ppmv
TVX-006-L	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-006-L	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0126		0.0102	0.0102	ppmv
TVX-006-L	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0378		0.0101	0.0101	ppmv
TVX-006-U	Baseline	6/10/2023	REG	Field Measure	CARBON DIOXIDE	11600				ppmv
TVX-006-U	Post-Shutdown	9/16/2023	REG	Field Measure	CARBON DIOXIDE	17300				ppmv
TVX-006-U	Final	6/1/2024	REG	Field Measure	CARBON DIOXIDE	27100				ppmv
TVX-006-U	Baseline	6/10/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-006-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-006-U	Final	6/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Baseline	6/10/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-006-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-006-U	Final	6/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Baseline	6/10/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Post-Shutdown	9/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Final	6/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Baseline	6/10/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Post-Shutdown	9/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Final	6/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Baseline	6/10/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Post-Shutdown	9/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Final	6/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued/end).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-007-L	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	2680				ppmv
TVX-007-L	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	3870				ppmv
TVX-007-L	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	3020				ppmv
TVX-007-L	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-007-L	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-007-L	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-007-L	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-007-L	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0145		0.0102	0.0102	ppmv
TVX-007-L	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0251		0.0102	0.0102	ppmv
TVX-007-L	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-U	Baseline	6/9/2023	REG	Field Measure	CARBON DIOXIDE	33200				ppmv
TVX-007-U	Post-Shutdown	9/15/2023	REG	Field Measure	CARBON DIOXIDE	31700				ppmv
TVX-007-U	Final	5/31/2024	REG	Field Measure	CARBON DIOXIDE	1020				ppmv
TVX-007-U	Baseline	6/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-007-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0937		0.00993	0.00993	ppmv
TVX-007-U	Final	5/31/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-U	Baseline	6/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-007-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-007-U	Final	5/31/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Baseline	6/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Post-Shutdown	9/15/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Final	5/31/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Baseline	6/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0294		0.0101	0.0101	ppmv
TVX-007-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0399		0.0101	0.0101	ppmv
TVX-007-U	Final	5/31/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-U	Baseline	6/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0395		0.0102	0.0102	ppmv
TVX-007-U	Post-Shutdown	9/15/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0313		0.0102	0.0102	ppmv
TVX-007-U	Final	5/31/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv

Table A-1. Results from the Baseline, Post-Shutdown, and Final Sampling Events *(continued/end).*

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-2. Results from Group 1 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-003-V	Group 1	9/25/2023	REG	Field Measure	CARBON DIOXIDE	37500				ppmv
TVM-003-V	Group 1	9/25/2023	FD	Field Measure	CARBON DIOXIDE	37500				ppmv
TVM-003-V	Group 1	9/25/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Group 1	9/25/2023	FD	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Group 1	9/25/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Group 1	9/25/2023	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Group 1	9/25/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/25/2023	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/25/2023	REG	Field Measure	FLOW RATE	6.82				ft3/min
TVM-003-V	Group 1	9/25/2023	FD	Field Measure	FLOW RATE	6.82				ft3/min
TVM-003-V	Group 1	9/25/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	9/25/2023	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	9/25/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0771	J	0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/25/2023	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0459	J	0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/26/2023	REG	Field Measure	CARBON DIOXIDE	27600				ppmv
TVM-003-V	Group 1	9/26/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Group 1	9/26/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Group 1	9/26/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/26/2023	REG	Field Measure	FLOW RATE	8.96				ft3/min
TVM-003-V	Group 1	9/26/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	9/26/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0684		0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/27/2023	REG	Field Measure	CARBON DIOXIDE	24600				ppmv
TVM-003-V	Group 1	9/27/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Group 1	9/27/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Group 1	9/27/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/27/2023	REG	Field Measure	FLOW RATE	7.2				ft3/s
TVM-003-V	Group 1	9/27/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	9/27/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0605		0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/28/2023	REG	Field Measure	CARBON DIOXIDE	24600				ppmv
TVM-003-V	Group 1	9/28/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Group 1	9/28/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Group 1	9/28/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	9/28/2023	REG	Field Measure	FLOW RATE	6.56				ft3/min
TVM-003-V	Group 1	9/28/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	9/28/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0569		0.0102	0.0102	ppmv
TVM-003-V	Group 1	10/2/2023	REG	Field Measure	CARBON DIOXIDE	23100				ppmv
TVM-003-V	Group 1	10/2/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVM-003-V	Group 1	10/2/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVM-003-V	Group 1	10/2/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	10/2/2023	REG	Field Measure	FLOW RATE	7.17				ft3/min
TVM-003-V	Group 1	10/2/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv

Table A-2. Results from Group 1 of the High Frequency Sampling Events *(continued)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-003-V	Group 1	10/2/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0518		0.0102	0.0102	ppmv
TVM-003-V	Group 1	10/9/2023	REG	Field Measure	CARBON DIOXIDE	24100				ppmv
TVM-003-V	Group 1	10/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	10/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-V	Group 1	10/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	10/9/2023	REG	Field Measure	FLOW RATE	7.69				ft3/min
TVM-003-V	Group 1	10/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	10/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0508		0.0101	0.0101	ppmv
TVM-003-V	Group 1	10/16/2023	REG	Field Measure	CARBON DIOXIDE	19100				ppmv
TVM-003-V	Group 1	10/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	10/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-V	Group 1	10/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-V	Group 1	10/16/2023	REG	Field Measure	FLOW RATE	7.63				ft3/min
TVM-003-V	Group 1	10/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-V	Group 1	10/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	9/25/2023	REG	Field Measure	CARBON DIOXIDE	12500				ppmv
TVX-002-L	Group 1	9/25/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-L	Group 1	9/25/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-L	Group 1	9/25/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	9/25/2023	REG	Field Measure	FLOW RATE	3.77				ft3/min
TVX-002-L	Group 1	9/25/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	9/25/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	9/26/2023	REG	Field Measure	CARBON DIOXIDE	11600				ppmv
TVX-002-L	Group 1	9/26/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-L	Group 1	9/26/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-L	Group 1	9/26/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	9/26/2023	REG	Field Measure	FLOW RATE	1.15				ft3/min
TVX-002-L	Group 1	9/26/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	9/26/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	9/27/2023	REG	Field Measure	CARBON DIOXIDE	18100				ppmv
TVX-002-L	Group 1	9/27/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-L	Group 1	9/27/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-L	Group 1	9/27/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	9/27/2023	REG	Field Measure	FLOW RATE	1.02				ft3/min
TVX-002-L	Group 1	9/27/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	9/27/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	9/28/2023	REG	Field Measure	CARBON DIOXIDE	15900				ppmv
TVX-002-L	Group 1	9/28/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-L	Group 1	9/28/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-L	Group 1	9/28/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	9/28/2023	REG	Field Measure	FLOW RATE	0.58				ft3/min

Table A-2. Results from Group 1 of the High Frequency Sampling Events *(continued)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-002-L	Group 1	9/28/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	9/28/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	10/2/2023	REG	Field Measure	CARBON DIOXIDE	10200				ppmv
TVX-002-L	Group 1	10/2/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-002-L	Group 1	10/2/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-002-L	Group 1	10/2/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	10/2/2023	REG	Field Measure	FLOW RATE	0.77				ft3/min
TVX-002-L	Group 1	10/2/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	10/2/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	10/9/2023	REG	Field Measure	CARBON DIOXIDE	18100				ppmv
TVX-002-L	Group 1	10/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	10/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-L	Group 1	10/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	10/9/2023	REG	Field Measure	FLOW RATE	0.91				ft3/min
TVX-002-L	Group 1	10/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	10/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	10/16/2023	REG	Field Measure	CARBON DIOXIDE	21100				ppmv
TVX-002-L	Group 1	10/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	10/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-L	Group 1	10/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-L	Group 1	10/16/2023	REG	Field Measure	FLOW RATE	0.87				ft/min
TVX-002-L	Group 1	10/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-L	Group 1	10/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0119		0.0101	0.0101	ppmv
TVX-004-U	Group 1	9/25/2023	REG	Field Measure	CARBON DIOXIDE	32000				ppmv
TVX-004-U	Group 1	9/25/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-U	Group 1	9/25/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-U	Group 1	9/25/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Group 1	9/25/2023	REG	Field Measure	FLOW RATE	7.71				ft3/min
TVX-004-U	Group 1	9/25/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	9/25/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0192		0.0102	0.0102	ppmv
TVX-004-U	Group 1	9/26/2023	REG	Field Measure	CARBON DIOXIDE	33100				ppmv
TVX-004-U	Group 1	9/26/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-U	Group 1	9/26/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-U	Group 1	9/26/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Group 1	9/26/2023	REG	Field Measure	FLOW RATE	4.75				ft3/min
TVX-004-U	Group 1	9/26/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	9/26/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0206		0.0102	0.0102	ppmv
TVX-004-U	Group 1	9/27/2023	REG	Field Measure	CARBON DIOXIDE	32400				ppmv
TVX-004-U	Group 1	9/27/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-U	Group 1	9/27/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-U	Group 1	9/27/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv

Table A-2. Results from Group 1 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-004-U	Group 1	9/27/2023	REG	Field Measure	FLOW RATE	7.36				ft3/min
TVX-004-U	Group 1	9/27/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	9/27/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0176		0.0102	0.0102	ppmv
TVX-004-U	Group 1	9/28/2023	REG	Field Measure	CARBON DIOXIDE	34100				ppmv
TVX-004-U	Group 1	9/28/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-U	Group 1	9/28/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-U	Group 1	9/28/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Group 1	9/28/2023	REG	Field Measure	FLOW RATE	8.01				ft3/min
TVX-004-U	Group 1	9/28/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	9/28/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0139		0.0102	0.0102	ppmv
TVX-004-U	Group 1	10/2/2023	REG	Field Measure	CARBON DIOXIDE	33100				ppmv
TVX-004-U	Group 1	10/2/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.00993	U	0.00993	0.00993	ppmv
TVX-004-U	Group 1	10/2/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.00999	U	0.00999	0.00999	ppmv
TVX-004-U	Group 1	10/2/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Group 1	10/2/2023	REG	Field Measure	FLOW RATE	9.84				ft/min
TVX-004-U	Group 1	10/2/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	10/2/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0132		0.0102	0.0102	ppmv
TVX-004-U	Group 1	10/9/2023	REG	Field Measure	CARBON DIOXIDE	32900				ppmv
TVX-004-U	Group 1	10/9/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	10/9/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-U	Group 1	10/9/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Group 1	10/9/2023	REG	Field Measure	FLOW RATE	9.42				ft3/min
TVX-004-U	Group 1	10/9/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	10/9/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0187		0.0101	0.0101	ppmv
TVX-004-U	Group 1	10/16/2023	REG	Field Measure	CARBON DIOXIDE	22500				ppmv
TVX-004-U	Group 1	10/16/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	10/16/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-U	Group 1	10/16/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-U	Group 1	10/16/2023	REG	Field Measure	FLOW RATE	9.41				ft3/min
TVX-004-U	Group 1	10/16/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-U	Group 1	10/16/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0503		0.0101	0.0101	ppmv

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-3. Results from Group 2 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-001-V	Group 2	10/23/2023	REG	Field Measure	CARBON DIOXIDE	25200				ppmv
TVM-001-V	Group 2	10/23/2023	REG	Field Measure	FLOW RATE	8.27				ft3/min
TVM-001-V	Group 2	10/23/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/23/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Group 2	10/23/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Group 2	10/23/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/23/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/24/2023	REG	Field Measure	CARBON DIOXIDE	21900				ppmv
TVM-001-V	Group 2	10/24/2023	REG	Field Measure	FLOW RATE	6.26				ft3/min
TVM-001-V	Group 2	10/24/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/24/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Group 2	10/24/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Group 2	10/24/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/24/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/25/2023	REG	Field Measure	CARBON DIOXIDE	25500				ppmv
TVM-001-V	Group 2	10/25/2023	REG	Field Measure	FLOW RATE	6.94				ft3/min
TVM-001-V	Group 2	10/25/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/25/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Group 2	10/25/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Group 2	10/25/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/25/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0105		0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/26/2023	REG	Field Measure	CARBON DIOXIDE	28400				ppmv
TVM-001-V	Group 2	10/26/2023	REG	Field Measure	FLOW RATE	8.24				ft3/min
TVM-001-V	Group 2	10/26/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/26/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Group 2	10/26/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Group 2	10/26/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/26/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/30/2023	REG	Field Measure	CARBON DIOXIDE	25300				ppmv
TVM-001-V	Group 2	10/30/2023	REG	Field Measure	FLOW RATE	5.04				ft3/min
TVM-001-V	Group 2	10/30/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/30/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Group 2	10/30/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Group 2	10/30/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	10/30/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	11/6/2023	REG	Field Measure	CARBON DIOXIDE	29400				ppmv
TVM-001-V	Group 2	11/6/2023	REG	Field Measure	FLOW RATE	7.71				ft3/min
TVM-001-V	Group 2	11/6/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	11/6/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Group 2	11/6/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Group 2	11/6/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0133		0.0101	0.0101	ppmv

Table A-3. Results from Group 2 of the High Frequency Sampling Events *(continued)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-001-V	Group 2	11/6/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	11/13/2023	REG	Field Measure	CARBON DIOXIDE	28900				ppmv
TVM-001-V	Group 2	11/13/2023	REG	Field Measure	FLOW RATE	7.49				ft3/min
TVM-001-V	Group 2	11/13/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	11/13/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-V	Group 2	11/13/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-V	Group 2	11/13/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-V	Group 2	11/13/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/23/2023	REG	Field Measure	CARBON DIOXIDE	39800				ppmv
TVX-007-U	Group 2	10/23/2023	FD	Field Measure	CARBON DIOXIDE	39800				ppmv
TVX-007-U	Group 2	10/23/2023	REG	Field Measure	FLOW RATE	14.1				ft3/min
TVX-007-U	Group 2	10/23/2023	FD	Field Measure	FLOW RATE	14.1				ft3/min
TVX-007-U	Group 2	10/23/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0249		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/23/2023	FD	EPA5021A	CARBON TETRACHLORIDE	0.0255		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/23/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	10/23/2023	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	10/23/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Group 2	10/23/2023	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Group 2	10/23/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0462		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/23/2023	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0432		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/23/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0586		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/23/2023	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0563		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/24/2023	REG	Field Measure	CARBON DIOXIDE	34300				ppmv
TVX-007-U	Group 2	10/24/2023	REG	Field Measure	FLOW RATE	13.18				ft3/min
TVX-007-U	Group 2	10/24/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0171		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/24/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	10/24/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Group 2	10/24/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0375		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/24/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0465		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/25/2023	REG	Field Measure	CARBON DIOXIDE	39600				ppmv
TVX-007-U	Group 2	10/25/2023	REG	Field Measure	FLOW RATE	13.3				ft3/min
TVX-007-U	Group 2	10/25/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0166		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/25/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	10/25/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Group 2	10/25/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0447		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/25/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.052		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/26/2023	REG	Field Measure	CARBON DIOXIDE	40200				ppmv
TVX-007-U	Group 2	10/26/2023	REG	Field Measure	FLOW RATE	12.9				ft3/min
TVX-007-U	Group 2	10/26/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.013		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/26/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	10/26/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv

Table A-3. Results from Group 2 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-007-U	Group 2	10/26/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0405		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/26/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0475		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/30/2023	REG	Field Measure	CARBON DIOXIDE	43700				ppmv
TVX-007-U	Group 2	10/30/2023	REG	Field Measure	FLOW RATE	13.6				ft3/min
TVX-007-U	Group 2	10/30/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0119		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/30/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	10/30/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Group 2	10/30/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0299		0.0101	0.0101	ppmv
TVX-007-U	Group 2	10/30/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0479		0.0101	0.0101	ppmv
TVX-007-U	Group 2	11/6/2023	REG	Field Measure	CARBON DIOXIDE	42700				ppmv
TVX-007-U	Group 2	11/6/2023	REG	Field Measure	FLOW RATE	15.09				ft3/min
TVX-007-U	Group 2	11/6/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-U	Group 2	11/6/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	11/6/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Group 2	11/6/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0447		0.0101	0.0101	ppmv
TVX-007-U	Group 2	11/6/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0511		0.0101	0.0101	ppmv
TVX-007-U	Group 2	11/13/2023	REG	Field Measure	CARBON DIOXIDE	45200				ppmv
TVX-007-U	Group 2	11/13/2023	REG	Field Measure	FLOW RATE	15.11				ft3/min
TVX-007-U	Group 2	11/13/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-U	Group 2	11/13/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	Group 2	11/13/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	Group 2	11/13/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0372		0.0101	0.0101	ppmv
TVX-007-U	Group 2	11/13/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0525		0.0101	0.0101	ppmv

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-4. Results from Group 3 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-002-V	Group 3	11/27/2023	FD	Field Measure	CARBON DIOXIDE	6820				ppmv
TVM-002-V	Group 3	11/27/2023	REG	Field Measure	CARBON DIOXIDE	6820				ppmv
TVM-002-V	Group 3	11/27/2023	FD	Field Measure	FLOW RATE	10.47				ft3/min
TVM-002-V	Group 3	11/27/2023	REG	Field Measure	FLOW RATE	10.47				ft3/min
TVM-002-V	Group 3	11/27/2023	FD	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/27/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/27/2023	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	11/27/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	11/27/2023	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	11/27/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	11/27/2023	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/27/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/27/2023	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/27/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/28/2023	REG	Field Measure	CARBON DIOXIDE	7050				ppmv
TVM-002-V	Group 3	11/28/2023	REG	Field Measure	FLOW RATE	11				ft3/min
TVM-002-V	Group 3	11/28/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/28/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	11/28/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	11/28/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/28/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/29/2023	REG	Field Measure	CARBON DIOXIDE	5720				ppmv
TVM-002-V	Group 3	11/29/2023	REG	Field Measure	FLOW RATE	10.32				ft3/min
TVM-002-V	Group 3	11/29/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/29/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	11/29/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	11/29/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/29/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/30/2023	REG	Field Measure	CARBON DIOXIDE	7380				ppmv
TVM-002-V	Group 3	11/30/2023	REG	Field Measure	FLOW RATE	6.79				ft3/min
TVM-002-V	Group 3	11/30/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/30/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	11/30/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	11/30/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	11/30/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0193		0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/4/2023	REG	Field Measure	CARBON DIOXIDE	12000				ppmv
TVM-002-V	Group 3	12/4/2023	REG	Field Measure	FLOW RATE	7.35				ft3/min
TVM-002-V	Group 3	12/4/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/4/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	12/4/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	12/4/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv

Table A-4. Results from Group 3 of the High Frequency Sampling Events *(continued)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-002-V	Group 3	12/4/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0358		0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/11/2023	REG	Field Measure	CARBON DIOXIDE	13200				ppmv
TVM-002-V	Group 3	12/11/2023	REG	Field Measure	FLOW RATE	6.53				ft3/min
TVM-002-V	Group 3	12/11/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/11/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	12/11/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	12/11/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/11/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0446		0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/18/2023	REG	Field Measure	CARBON DIOXIDE	21300				ppmv
TVM-002-V	Group 3	12/18/2023	REG	Field Measure	FLOW RATE	6.2				ft3/min
TVM-002-V	Group 3	12/18/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/18/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-V	Group 3	12/18/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-V	Group 3	12/18/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-V	Group 3	12/18/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0982		0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/27/2023	REG	Field Measure	CARBON DIOXIDE	19500				ppmv
TVX-002-U	Group 3	11/27/2023	REG	Field Measure	FLOW RATE	7.76				ft3/min
TVX-002-U	Group 3	11/27/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/27/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Group 3	11/27/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Group 3	11/27/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/27/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0163		0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/28/2023	REG	Field Measure	CARBON DIOXIDE	19700				ppmv
TVX-002-U	Group 3	11/28/2023	REG	Field Measure	FLOW RATE	6.98				ft3/min
TVX-002-U	Group 3	11/28/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/28/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Group 3	11/28/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Group 3	11/28/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/28/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0373		0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/29/2023	REG	Field Measure	CARBON DIOXIDE	28200				ppmv
TVX-002-U	Group 3	11/29/2023	REG	Field Measure	FLOW RATE	8.03				ft3/min
TVX-002-U	Group 3	11/29/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/29/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Group 3	11/29/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Group 3	11/29/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/29/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0414		0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/30/2023	REG	Field Measure	CARBON DIOXIDE	28600				ppmv
TVX-002-U	Group 3	11/30/2023	REG	Field Measure	FLOW RATE	8.35				ft3/min
TVX-002-U	Group 3	11/30/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/30/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Group 3	11/30/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv

Table A-4. Results from Group 3 of the High Frequency Sampling Events *(continued)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-002-U	Group 3	11/30/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	11/30/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0473		0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/4/2023	REG	Field Measure	CARBON DIOXIDE	34300				ppmv
TVX-002-U	Group 3	12/4/2023	REG	Field Measure	FLOW RATE	9.12				ft3/min
TVX-002-U	Group 3	12/4/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/4/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Group 3	12/4/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Group 3	12/4/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/4/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0741		0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/11/2023	REG	Field Measure	CARBON DIOXIDE	39600				ppmv
TVX-002-U	Group 3	12/11/2023	REG	Field Measure	FLOW RATE	7.42				ft3/min
TVX-002-U	Group 3	12/11/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/11/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Group 3	12/11/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Group 3	12/11/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/11/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0403		0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/18/2023	REG	Field Measure	CARBON DIOXIDE	41200				ppmv
TVX-002-U	Group 3	12/18/2023	REG	Field Measure	FLOW RATE	6.92				ft3/min
TVX-002-U	Group 3	12/18/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/18/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-002-U	Group 3	12/18/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-002-U	Group 3	12/18/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-002-U	Group 3	12/18/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0634		0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/27/2023	REG	Field Measure	CARBON DIOXIDE	92000				ppmv
TVX-004-L	Group 3	11/27/2023	REG	Field Measure	FLOW RATE	3.13				ft3/min
TVX-004-L	Group 3	11/27/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/27/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	Group 3	11/27/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Group 3	11/27/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/27/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0668		0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/28/2023	REG	Field Measure	CARBON DIOXIDE	86000				ppmv
TVX-004-L	Group 3	11/28/2023	REG	Field Measure	FLOW RATE	1.98				ft3/min
TVX-004-L	Group 3	11/28/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/28/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	Group 3	11/28/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Group 3	11/28/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/28/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0414		0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/29/2023	REG	Field Measure	CARBON DIOXIDE	105300				ppmv
TVX-004-L	Group 3	11/29/2023	REG	Field Measure	FLOW RATE	1.76				ft3/min
TVX-004-L	Group 3	11/29/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/29/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv

Table A-4. Results from Group 3 of the High Frequency Sampling Events *(continued)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-004-L	Group 3	11/29/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Group 3	11/29/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/29/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0712		0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/30/2023	REG	Field Measure	CARBON DIOXIDE	86400				ppmv
TVX-004-L	Group 3	11/30/2023	REG	Field Measure	FLOW RATE	2.29				ft3/min
TVX-004-L	Group 3	11/30/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/30/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	Group 3	11/30/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Group 3	11/30/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	11/30/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0677		0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/4/2023	REG	Field Measure	CARBON DIOXIDE	70800				ppmv
TVX-004-L	Group 3	12/4/2023	REG	Field Measure	FLOW RATE	3.79				ft3/min
TVX-004-L	Group 3	12/4/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/4/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	Group 3	12/4/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Group 3	12/4/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/4/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0402		0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/11/2023	REG	Field Measure	CARBON DIOXIDE	53400				ppmv
TVX-004-L	Group 3	12/11/2023	REG	Field Measure	FLOW RATE	3.15				ft3/min
TVX-004-L	Group 3	12/11/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/11/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	Group 3	12/11/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Group 3	12/11/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/11/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.046		0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/18/2023	REG	Field Measure	CARBON DIOXIDE	50600				ppmv
TVX-004-L	Group 3	12/18/2023	REG	Field Measure	FLOW RATE	2.76				ft3/min
TVX-004-L	Group 3	12/18/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/18/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	Group 3	12/18/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	Group 3	12/18/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	Group 3	12/18/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0656		0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/27/2023	REG	Field Measure	CARBON DIOXIDE	87600				ppmv
TVX-006-L	Group 3	11/27/2023	REG	Field Measure	FLOW RATE	4.17				ft3/min
TVX-006-L	Group 3	11/27/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/27/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-L	Group 3	11/27/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0521		0.0102	0.0102	ppmv
TVX-006-L	Group 3	11/27/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/27/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/28/2023	REG	Field Measure	CARBON DIOXIDE	70500				ppmv
TVX-006-L	Group 3	11/28/2023	REG	Field Measure	FLOW RATE	3.77				ft3/min
TVX-006-L	Group 3	11/28/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv

Table A-4. Results from Group 3 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-006-L	Group 3	11/28/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-L	Group 3	11/28/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.03		0.0102	0.0102	ppmv
TVX-006-L	Group 3	11/28/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/28/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/29/2023	REG	Field Measure	CARBON DIOXIDE	78100				ppmv
TVX-006-L	Group 3	11/29/2023	REG	Field Measure	FLOW RATE	3.69				ft3/min
TVX-006-L	Group 3	11/29/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/29/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-L	Group 3	11/29/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0212		0.0102	0.0102	ppmv
TVX-006-L	Group 3	11/29/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/29/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/30/2023	REG	Field Measure	CARBON DIOXIDE	72500				ppmv
TVX-006-L	Group 3	11/30/2023	REG	Field Measure	FLOW RATE	4.25				ft3/min
TVX-006-L	Group 3	11/30/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/30/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-L	Group 3	11/30/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0152		0.0102	0.0102	ppmv
TVX-006-L	Group 3	11/30/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	11/30/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/4/2023	REG	Field Measure	CARBON DIOXIDE	60500				ppmv
TVX-006-L	Group 3	12/4/2023	REG	Field Measure	FLOW RATE	5.09				ft3/min
TVX-006-L	Group 3	12/4/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/4/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-L	Group 3	12/4/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-L	Group 3	12/4/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/4/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0107		0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/11/2023	REG	Field Measure	CARBON DIOXIDE	53900				ppmv
TVX-006-L	Group 3	12/11/2023	REG	Field Measure	FLOW RATE	2.98				ft3/min
TVX-006-L	Group 3	12/11/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/11/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-L	Group 3	12/11/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-L	Group 3	12/11/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/11/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0324		0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/18/2023	REG	Field Measure	CARBON DIOXIDE	44800				ppmv
TVX-006-L	Group 3	12/18/2023	REG	Field Measure	FLOW RATE	2.83				ft3/min
TVX-006-L	Group 3	12/18/2023	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/18/2023	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-L	Group 3	12/18/2023	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-L	Group 3	12/18/2023	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-L	Group 3	12/18/2023	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.051		0.0101	0.0101	ppmv

Table A-4. Results from Group 3 of the High Frequency Sampling Events *(continued/end)*.

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-5. Results from Group 4 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-004-V	Group 4	1/8/2024	REG	Field Measure	CARBON DIOXIDE	6160				ppmv
TVM-004-V	Group 4	1/8/2024	FD	Field Measure	CARBON DIOXIDE	6160				ppmv
TVM-004-V	Group 4	1/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/8/2024	FD	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/8/2024	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/8/2024	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/8/2024	REG	Field Measure	FLOW RATE	1.82				ft3/min
TVM-004-V	Group 4	1/8/2024	FD	Field Measure	FLOW RATE	1.82				ft3/min
TVM-004-V	Group 4	1/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/8/2024	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.03		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/8/2024	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0299		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/9/2024	REG	Field Measure	CARBON DIOXIDE	9480				ppmv
TVM-004-V	Group 4	1/9/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/9/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/9/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/9/2024	REG	Field Measure	FLOW RATE	4.71				ft3/min
TVM-004-V	Group 4	1/9/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/9/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0586		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/10/2024	REG	Field Measure	CARBON DIOXIDE	20100				ppmv
TVM-004-V	Group 4	1/10/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/10/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/10/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/10/2024	REG	Field Measure	FLOW RATE	1.82				ft3/min
TVM-004-V	Group 4	1/10/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0151		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/10/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0997		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/11/2024	REG	Field Measure	CARBON DIOXIDE	19300				ppmv
TVM-004-V	Group 4	1/11/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/11/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/11/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/11/2024	REG	Field Measure	FLOW RATE	1.92				ft3/min
TVM-004-V	Group 4	1/11/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0148		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/11/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.111		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/16/2024	REG	Field Measure	CARBON DIOXIDE	25100				ppmv

Table A-5. Results from Group 4 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-004-V	Group 4	1/16/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/16/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/16/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/16/2024	REG	Field Measure	FLOW RATE	1.45				ft3/min
TVM-004-V	Group 4	1/16/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0247		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/16/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.126		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/22/2024	REG	Field Measure	CARBON DIOXIDE	23300				ppmv
TVM-004-V	Group 4	1/22/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/22/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/22/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/22/2024	REG	Field Measure	FLOW RATE	1.92				ft3/min
TVM-004-V	Group 4	1/22/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0213		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/22/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.107		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/29/2024	REG	Field Measure	CARBON DIOXIDE	26000				ppmv
TVM-004-V	Group 4	1/29/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0108		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/29/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	Group 4	1/29/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	Group 4	1/29/2024	REG	Field Measure	FLOW RATE	1.36				ft3/min
TVM-004-V	Group 4	1/29/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0279		0.0101	0.0101	ppmv
TVM-004-V	Group 4	1/29/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.11		0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/8/2024	REG	Field Measure	CARBON DIOXIDE	21200				ppmv
TVX-005-U	Group 4	1/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Group 4	1/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Group 4	1/8/2024	REG	Field Measure	FLOW RATE	11.64				ft3/min
TVX-005-U	Group 4	1/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/9/2024	REG	Field Measure	CARBON DIOXIDE	24500				ppmv
TVX-005-U	Group 4	1/9/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/9/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Group 4	1/9/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Group 4	1/9/2024	REG	Field Measure	FLOW RATE	3.78				ft3/min
TVX-005-U	Group 4	1/9/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/9/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0107		0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/10/2024	REG	Field Measure	CARBON DIOXIDE	18400				ppmv
TVX-005-U	Group 4	1/10/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv

Table A-5. Results from Group 4 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-005-U	Group 4	1/10/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Group 4	1/10/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Group 4	1/10/2024	REG	Field Measure	FLOW RATE	11.08				ft3/min
TVX-005-U	Group 4	1/10/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/10/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/11/2024	REG	Field Measure	CARBON DIOXIDE	11400				ppmv
TVX-005-U	Group 4	1/11/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/11/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Group 4	1/11/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Group 4	1/11/2024	REG	Field Measure	FLOW RATE	8.93				ft/min
TVX-005-U	Group 4	1/11/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/11/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/16/2024	REG	Field Measure	CARBON DIOXIDE	27900				ppmv
TVX-005-U	Group 4	1/16/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/16/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Group 4	1/16/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Group 4	1/16/2024	REG	Field Measure	FLOW RATE	8.56				ft3/min
TVX-005-U	Group 4	1/16/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/16/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0103		0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/22/2024	REG	Field Measure	CARBON DIOXIDE	27500				ppmv
TVX-005-U	Group 4	1/22/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/22/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Group 4	1/22/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Group 4	1/22/2024	REG	Field Measure	FLOW RATE	10.88				ft3/min
TVX-005-U	Group 4	1/22/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/22/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/29/2024	REG	Field Measure	CARBON DIOXIDE	29800				ppmv
TVX-005-U	Group 4	1/29/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/29/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-U	Group 4	1/29/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-U	Group 4	1/29/2024	REG	Field Measure	FLOW RATE	11.05				ft/min
TVX-005-U	Group 4	1/29/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-U	Group 4	1/29/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-6. Results from Group 5 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-003-L	Group 5	2/5/2024	REG	Field Measure	CARBON DIOXIDE	4130				ppmv
TVX-003-L	Group 5	2/5/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/5/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Group 5	2/5/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Group 5	2/5/2024	REG	Field Measure	FLOW RATE	0.95				ft3/min
TVX-003-L	Group 5	2/5/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/5/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/6/2024	REG	Field Measure	CARBON DIOXIDE	1005				ppmv
TVX-003-L	Group 5	2/6/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/6/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Group 5	2/6/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Group 5	2/6/2024	REG	Field Measure	FLOW RATE	0.85				ft3/min
TVX-003-L	Group 5	2/6/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/6/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/7/2024	REG	Field Measure	CARBON DIOXIDE	1920				ppmv
TVX-003-L	Group 5	2/7/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/7/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Group 5	2/7/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Group 5	2/7/2024	REG	Field Measure	FLOW RATE	1.34				ft3/min
TVX-003-L	Group 5	2/7/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/7/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/8/2024	REG	Field Measure	CARBON DIOXIDE	1710				ppmv
TVX-003-L	Group 5	2/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Group 5	2/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Group 5	2/8/2024	REG	Field Measure	FLOW RATE	0.93				ft3/min
TVX-003-L	Group 5	2/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/13/2024	REG	Field Measure	CARBON DIOXIDE	1875				ppmv
TVX-003-L	Group 5	2/13/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/13/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Group 5	2/13/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Group 5	2/13/2024	REG	Field Measure	FLOW RATE	1.51				ft3/min
TVX-003-L	Group 5	2/13/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/13/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/20/2024	REG	Field Measure	CARBON DIOXIDE	1050				ppmv
TVX-003-L	Group 5	2/20/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/20/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Group 5	2/20/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Group 5	2/20/2024	REG	Field Measure	FLOW RATE	1.89				ft3/min
TVX-003-L	Group 5	2/20/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv

Table A-6. Results from Group 5 of the High Frequency Sampling Events *(continued/end).*

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-003-L	Group 5	2/20/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.011		0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/26/2024	REG	Field Measure	CARBON DIOXIDE	1130				ppmv
TVX-003-L	Group 5	2/26/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/26/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-003-L	Group 5	2/26/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-003-L	Group 5	2/26/2024	REG	Field Measure	FLOW RATE	0.71				ft3/min
TVX-003-L	Group 5	2/26/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-003-L	Group 5	2/26/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/5/2024	REG	Field Measure	CARBON DIOXIDE	22100				ppmv
TVX-006-U	Group 5	2/5/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/5/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/5/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/5/2024	REG	Field Measure	FLOW RATE	11.15				ft3/min
TVX-006-U	Group 5	2/5/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/5/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/6/2024	REG	Field Measure	CARBON DIOXIDE	24200				ppmv
TVX-006-U	Group 5	2/6/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/6/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/6/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/6/2024	REG	Field Measure	FLOW RATE	17.21				ft3/min
TVX-006-U	Group 5	2/6/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/6/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0116		0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/7/2024	REG	Field Measure	CARBON DIOXIDE	22800				ppmv
TVX-006-U	Group 5	2/7/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/7/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/7/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/7/2024	REG	Field Measure	FLOW RATE	18.62				ft3/min
TVX-006-U	Group 5	2/7/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/7/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/8/2024	FD	Field Measure	CARBON DIOXIDE	25900				ppmv
TVX-006-U	Group 5	2/8/2024	REG	Field Measure	CARBON DIOXIDE	25900				ppmv
TVX-006-U	Group 5	2/8/2024	FD	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/8/2024	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/8/2024	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/8/2024	FD	Field Measure	FLOW RATE	19.41				ft3/min
TVX-006-U	Group 5	2/8/2024	REG	Field Measure	FLOW RATE	19.41				ft3/min
TVX-006-U	Group 5	2/8/2024	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv

Table A-6. Results from Group 5 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-006-U	Group 5	2/8/2024	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0104		0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/13/2024	REG	Field Measure	CARBON DIOXIDE	26420				ppmv
TVX-006-U	Group 5	2/13/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/13/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/13/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/13/2024	REG	Field Measure	FLOW RATE	18.06				ft3/s
TVX-006-U	Group 5	2/13/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/13/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102		0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/20/2024	REG	Field Measure	CARBON DIOXIDE	26300				ppmv
TVX-006-U	Group 5	2/20/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/20/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/20/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/20/2024	REG	Field Measure	FLOW RATE	15.47				ft3/min
TVX-006-U	Group 5	2/20/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/20/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0114		0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/26/2024	REG	Field Measure	CARBON DIOXIDE	27800				ppmv
TVX-006-U	Group 5	2/26/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/26/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-006-U	Group 5	2/26/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-006-U	Group 5	2/26/2024	REG	Field Measure	FLOW RATE	16.75				ft3/min
TVX-006-U	Group 5	2/26/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-006-U	Group 5	2/26/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0114		0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/5/2024	REG	Field Measure	CARBON DIOXIDE	18400				ppmv
TVX-007-L	Group 5	2/5/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/5/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Group 5	2/5/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Group 5	2/5/2024	REG	Field Measure	FLOW RATE	1.3				ft3/min
TVX-007-L	Group 5	2/5/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/5/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0319		0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/6/2024	REG	Field Measure	CARBON DIOXIDE	22300				ppmv
TVX-007-L	Group 5	2/6/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/6/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Group 5	2/6/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Group 5	2/6/2024	REG	Field Measure	FLOW RATE	0.67				ft3/min
TVX-007-L	Group 5	2/6/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/6/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0506		0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/7/2024	REG	Field Measure	CARBON DIOXIDE	17900				ppmv
TVX-007-L	Group 5	2/7/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/7/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Group 5	2/7/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv

Table A-6. Results from Group 5 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-007-L	Group 5	2/7/2024	REG	Field Measure	FLOW RATE	1.14				ft3/min
TVX-007-L	Group 5	2/7/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/7/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0387		0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/8/2024	REG	Field Measure	CARBON DIOXIDE	31600				ppmv
TVX-007-L	Group 5	2/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Group 5	2/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Group 5	2/8/2024	REG	Field Measure	FLOW RATE	0.75				ft3/min
TVX-007-L	Group 5	2/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0315		0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/13/2024	REG	Field Measure	CARBON DIOXIDE	31800				ppmv
TVX-007-L	Group 5	2/13/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/13/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Group 5	2/13/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Group 5	2/13/2024	REG	Field Measure	FLOW RATE	0.61				ft3/min
TVX-007-L	Group 5	2/13/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/13/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0358		0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/20/2024	REG	Field Measure	CARBON DIOXIDE	25400				ppmv
TVX-007-L	Group 5	2/20/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/20/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Group 5	2/20/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Group 5	2/20/2024	REG	Field Measure	FLOW RATE	1.12				ft3/min
TVX-007-L	Group 5	2/20/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/20/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0763		0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/26/2024	REG	Field Measure	CARBON DIOXIDE	22800				ppmv
TVX-007-L	Group 5	2/26/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/26/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	Group 5	2/26/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	Group 5	2/26/2024	REG	Field Measure	FLOW RATE	1.2				ft3/min
TVX-007-L	Group 5	2/26/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	Group 5	2/26/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0483		0.0101	0.0101	ppmv

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-7. Results from Group 6 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-003-U	Group 6	3/11/2024	REG	Field Measure	CARBON DIOXIDE	8900				ppmv
TVM-003-U	Group 6	3/11/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/11/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Group 6	3/11/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Group 6	3/11/2024	REG	Field Measure	FLOW RATE	12.1				ft3/min
TVM-003-U	Group 6	3/11/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/11/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.032		0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/12/2024	REG	Field Measure	CARBON DIOXIDE	35200				ppmv
TVM-003-U	Group 6	3/12/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/12/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Group 6	3/12/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Group 6	3/12/2024	REG	Field Measure	FLOW RATE	4.98				ft3/min
TVM-003-U	Group 6	3/12/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/12/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.148		0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/13/2024	REG	Field Measure	CARBON DIOXIDE	36800				ppmv
TVM-003-U	Group 6	3/13/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/13/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Group 6	3/13/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Group 6	3/13/2024	REG	Field Measure	FLOW RATE	5.88				ft3/min
TVM-003-U	Group 6	3/13/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/13/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.143		0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/14/2024	REG	Field Measure	CARBON DIOXIDE	37500				ppmv
TVM-003-U	Group 6	3/14/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/14/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Group 6	3/14/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Group 6	3/14/2024	REG	Field Measure	FLOW RATE	3.5				ft3/min
TVM-003-U	Group 6	3/14/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/14/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.147		0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/18/2024	REG	Field Measure	CARBON DIOXIDE	39600				ppmv
TVM-003-U	Group 6	3/18/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/18/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Group 6	3/18/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Group 6	3/18/2024	REG	Field Measure	FLOW RATE	5.93				ft3/min
TVM-003-U	Group 6	3/18/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/18/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.15		0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/25/2024	REG	Field Measure	CARBON DIOXIDE	36000				ppmv

Table A-7. Results from Group 6 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-003-U	Group 6	3/25/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/25/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Group 6	3/25/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Group 6	3/25/2024	REG	Field Measure	FLOW RATE	3.81				ft3/min
TVM-003-U	Group 6	3/25/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	3/25/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.159		0.0101	0.0101	ppmv
TVM-003-U	Group 6	4/1/2024	REG	Field Measure	CARBON DIOXIDE	38700				ppmv
TVM-003-U	Group 6	4/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	4/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	Group 6	4/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	Group 6	4/1/2024	REG	Field Measure	FLOW RATE	3.67				ft3/min
TVM-003-U	Group 6	4/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	Group 6	4/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.141		0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/11/2024	REG	Field Measure	CARBON DIOXIDE	43900				ppmv
TVX-005-L	Group 6	3/11/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/11/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	3/11/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Group 6	3/11/2024	REG	Field Measure	FLOW RATE	2.51				ft3/min
TVX-005-L	Group 6	3/11/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/11/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/12/2024	REG	Field Measure	CARBON DIOXIDE	63100				ppmv
TVX-005-L	Group 6	3/12/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/12/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	3/12/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Group 6	3/12/2024	REG	Field Measure	FLOW RATE	3.55				ft3/min
TVX-005-L	Group 6	3/12/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/12/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/13/2024	REG	Field Measure	CARBON DIOXIDE	69900				ppmv
TVX-005-L	Group 6	3/13/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/13/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	3/13/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Group 6	3/13/2024	REG	Field Measure	FLOW RATE	3.34				ft3/min
TVX-005-L	Group 6	3/13/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/13/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/14/2024	REG	Field Measure	CARBON DIOXIDE	64900				ppmv
TVX-005-L	Group 6	3/14/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv

Table A-7. Results from Group 6 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-005-L	Group 6	3/14/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	3/14/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Group 6	3/14/2024	REG	Field Measure	FLOW RATE	2.69				ft3/min
TVX-005-L	Group 6	3/14/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/14/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/18/2024	REG	Field Measure	CARBON DIOXIDE	55300				ppmv
TVX-005-L	Group 6	3/18/2024	FD	Field Measure	CARBON DIOXIDE	55300				ppmv
TVX-005-L	Group 6	3/18/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/18/2024	FD	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/18/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	3/18/2024	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	3/18/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Group 6	3/18/2024	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Group 6	3/18/2024	REG	Field Measure	FLOW RATE	2.73				ft3/min
TVX-005-L	Group 6	3/18/2024	FD	Field Measure	FLOW RATE	2.73				ft3/min
TVX-005-L	Group 6	3/18/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/18/2024	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/18/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/18/2024	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/25/2024	REG	Field Measure	CARBON DIOXIDE	48400				ppmv
TVX-005-L	Group 6	3/25/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/25/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	3/25/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-005-L	Group 6	3/25/2024	REG	Field Measure	FLOW RATE	2.52				ft3/min
TVX-005-L	Group 6	3/25/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	3/25/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	4/1/2024	REG	Field Measure	CARBON DIOXIDE	47300				ppmv
TVX-005-L	Group 6	4/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	4/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-005-L	Group 6	4/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0104		0.0102	0.0102	ppmv
TVX-005-L	Group 6	4/1/2024	REG	Field Measure	FLOW RATE	1.98				ft3/min
TVX-005-L	Group 6	4/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-005-L	Group 6	4/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-8. Results from Group 7 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-002-U	Group 7	4/8/2024	REG	Field Measure	CARBON DIOXIDE	25300				ppmv
TVM-002-U	Group 7	4/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Group 7	4/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Group 7	4/8/2024	REG	Field Measure	FLOW RATE	6.03				ft3/min
TVM-002-U	Group 7	4/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.131		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/9/2024	REG	Field Measure	CARBON DIOXIDE	51300				ppmv
TVM-002-U	Group 7	4/9/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/9/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Group 7	4/9/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Group 7	4/9/2024	REG	Field Measure	FLOW RATE	5.51				ft3/min
TVM-002-U	Group 7	4/9/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0344		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/9/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.496		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/10/2024	REG	Field Measure	CARBON DIOXIDE	56300				ppmv
TVM-002-U	Group 7	4/10/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/10/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Group 7	4/10/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Group 7	4/10/2024	REG	Field Measure	FLOW RATE	5.93				ft3/min
TVM-002-U	Group 7	4/10/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0401		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/10/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.553		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/11/2024	REG	Field Measure	CARBON DIOXIDE	58200				ppmv
TVM-002-U	Group 7	4/11/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/11/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Group 7	4/11/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Group 7	4/11/2024	REG	Field Measure	FLOW RATE	7.07				ft3/min
TVM-002-U	Group 7	4/11/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0377		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/11/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.462		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/15/2024	REG	Field Measure	CARBON DIOXIDE	51400				ppmv
TVM-002-U	Group 7	4/15/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/15/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Group 7	4/15/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Group 7	4/15/2024	REG	Field Measure	FLOW RATE	5.73				ft3/min
TVM-002-U	Group 7	4/15/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.036		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/15/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.386		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/22/2024	REG	Field Measure	CARBON DIOXIDE	45000				ppmv

Table A-8. Results from Group 7 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-002-U	Group 7	4/22/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/22/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Group 7	4/22/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Group 7	4/22/2024	REG	Field Measure	FLOW RATE	1.14				ft3/min
TVM-002-U	Group 7	4/22/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0418		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/22/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.371		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/29/2024	REG	Field Measure	CARBON DIOXIDE	43800				ppmv
TVM-002-U	Group 7	4/29/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/29/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	Group 7	4/29/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	Group 7	4/29/2024	REG	Field Measure	FLOW RATE	5.83				ft3/min
TVM-002-U	Group 7	4/29/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0332		0.0101	0.0101	ppmv
TVM-002-U	Group 7	4/29/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.292		0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/8/2024	REG	Field Measure	CARBON DIOXIDE	11600				ppmv
TVX-001-L	Group 7	4/8/2024	FD	Field Measure	CARBON DIOXIDE	11600				ppmv
TVX-001-L	Group 7	4/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/8/2024	FD	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/8/2024	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/8/2024	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/8/2024	REG	Field Measure	FLOW RATE	7.44				ft3/min
TVX-001-L	Group 7	4/8/2024	FD	Field Measure	FLOW RATE	7.44				ft3/min
TVX-001-L	Group 7	4/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/8/2024	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0102		0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/8/2024	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/9/2024	REG	Field Measure	CARBON DIOXIDE	28600				ppmv
TVX-001-L	Group 7	4/9/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/9/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/9/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/9/2024	REG	Field Measure	FLOW RATE	6.69				ft3/min
TVX-001-L	Group 7	4/9/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/9/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0316		0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/10/2024	REG	Field Measure	CARBON DIOXIDE	29700				ppmv
TVX-001-L	Group 7	4/10/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv

Table A-8. Results from Group 7 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-001-L	Group 7	4/10/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/10/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/10/2024	REG	Field Measure	FLOW RATE	7.33				ft3/min
TVX-001-L	Group 7	4/10/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/10/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0304		0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/11/2024	REG	Field Measure	CARBON DIOXIDE	30000				ppmv
TVX-001-L	Group 7	4/11/2024	REG	Field Measure	CARBON DIOXIDE	30000				ppmv
TVX-001-L	Group 7	4/11/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/11/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/11/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/11/2024	REG	Field Measure	FLOW RATE	8.06				ft3/min
TVX-001-L	Group 7	4/11/2024	REG	Field Measure	FLOW RATE	8.06				ft3/min
TVX-001-L	Group 7	4/11/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/11/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0225		0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/15/2024	REG	Field Measure	CARBON DIOXIDE	30800				ppmv
TVX-001-L	Group 7	4/15/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/15/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/15/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/15/2024	REG	Field Measure	FLOW RATE	7.28				ft3/min
TVX-001-L	Group 7	4/15/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/15/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0182		0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/22/2024	REG	Field Measure	CARBON DIOXIDE	30200				ppmv
TVX-001-L	Group 7	4/22/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/22/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/22/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/22/2024	REG	Field Measure	FLOW RATE	0.95				ft3/min
TVX-001-L	Group 7	4/22/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/22/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0173		0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/29/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/29/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-001-L	Group 7	4/29/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-001-L	Group 7	4/29/2024	REG	Field Measure	FLOW RATE	7.74				ft/min
TVX-001-L	Group 7	4/29/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-001-L	Group 7	4/29/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0159		0.0101	0.0101	ppmv

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-9. Results from Group 8 of the High Frequency Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-001-U	Group 8	5/6/2024	REG	Field Measure	CARBON DIOXIDE	10100				ppmv
TVM-001-U	Group 8	5/6/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/6/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Group 8	5/6/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Group 8	5/6/2024	REG	Field Measure	FLOW RATE	4.46				ft/min
TVM-001-U	Group 8	5/6/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/6/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/7/2024	REG	Field Measure	CARBON DIOXIDE	9800				ppmv
TVM-001-U	Group 8	5/7/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/7/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Group 8	5/7/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Group 8	5/7/2024	REG	Field Measure	FLOW RATE	4.83				ft3/min
TVM-001-U	Group 8	5/7/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/7/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/8/2024	REG	Field Measure	CARBON DIOXIDE	10000				ppmv
TVM-001-U	Group 8	5/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Group 8	5/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Group 8	5/8/2024	REG	Field Measure	FLOW RATE	5.12				ft3/min
TVM-001-U	Group 8	5/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/9/2024	REG	Field Measure	CARBON DIOXIDE	62300				ppmv
TVM-001-U	Group 8	5/9/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/9/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Group 8	5/9/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0136		0.0102	0.0102	ppmv
TVM-001-U	Group 8	5/9/2024	REG	Field Measure	FLOW RATE	4.87				ft3/min
TVM-001-U	Group 8	5/9/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/9/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/13/2024	REG	Field Measure	CARBON DIOXIDE	42300				ppmv
TVM-001-U	Group 8	5/13/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/13/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Group 8	5/13/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Group 8	5/13/2024	REG	Field Measure	FLOW RATE	2.23				ft3/min
TVM-001-U	Group 8	5/13/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/13/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/20/2024	REG	Field Measure	CARBON DIOXIDE	33600				ppmv

Table A-9. Results from Group 8 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-001-U	Group 8	5/20/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/20/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Group 8	5/20/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Group 8	5/20/2024	REG	Field Measure	FLOW RATE	9.32				ft3/min
TVM-001-U	Group 8	5/20/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/20/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0108		0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/27/2024	REG	Field Measure	CARBON DIOXIDE	29100				ppmv
TVM-001-U	Group 8	5/27/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0134		0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/27/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-001-U	Group 8	5/27/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-001-U	Group 8	5/27/2024	REG	Field Measure	FLOW RATE	4.24				ft3/min
TVM-001-U	Group 8	5/27/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0249		0.0101	0.0101	ppmv
TVM-001-U	Group 8	5/27/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0163		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/6/2024	REG	Field Measure	CARBON DIOXIDE	16100				ppmv
TVM-004-U	Group 8	5/6/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/6/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/6/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/6/2024	REG	Field Measure	FLOW RATE	3.12				ft3/min
TVM-004-U	Group 8	5/6/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/6/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/7/2024	REG	Field Measure	CARBON DIOXIDE	4750				ppmv
TVM-004-U	Group 8	5/7/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/7/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/7/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/7/2024	REG	Field Measure	FLOW RATE	4.58				ft3/min
TVM-004-U	Group 8	5/7/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/7/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.048		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/8/2024	REG	Field Measure	CARBON DIOXIDE	6300				ppmv
TVM-004-U	Group 8	5/8/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/8/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/8/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/8/2024	REG	Field Measure	FLOW RATE	5.61				ft3/min
TVM-004-U	Group 8	5/8/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0134		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/8/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0761		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/9/2024	REG	Field Measure	CARBON DIOXIDE	27400				ppmv
TVM-004-U	Group 8	5/9/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv

Table A-9. Results from Group 8 of the High Frequency Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-004-U	Group 8	5/9/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/9/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/9/2024	REG	Field Measure	FLOW RATE	0.84				ft3/min
TVM-004-U	Group 8	5/9/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/9/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0457		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/13/2024	REG	Field Measure	CARBON DIOXIDE	26600				ppmv
TVM-004-U	Group 8	5/13/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0115		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/13/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/13/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/13/2024	REG	Field Measure	FLOW RATE	1.93				ft3/min
TVM-004-U	Group 8	5/13/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.015		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/13/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0542		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/20/2024	REG	Field Measure	CARBON DIOXIDE	27000				ppmv
TVM-004-U	Group 8	5/20/2024	FD	Field Measure	CARBON DIOXIDE	27000				ppmv
TVM-004-U	Group 8	5/20/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0117		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/20/2024	FD	EPA5021A	CARBON TETRACHLORIDE	0.013		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/20/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/20/2024	FD	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/20/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/20/2024	FD	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/20/2024	REG	Field Measure	FLOW RATE	3.36				ft3/min
TVM-004-U	Group 8	5/20/2024	FD	Field Measure	FLOW RATE	3.36				ft3/min
TVM-004-U	Group 8	5/20/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0199		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/20/2024	FD	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0188		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/20/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.052		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/20/2024	FD	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0513		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/27/2024	REG	Field Measure	CARBON DIOXIDE	8960				ppmv
TVM-004-U	Group 8	5/27/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/27/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-U	Group 8	5/27/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-U	Group 8	5/27/2024	REG	Field Measure	FLOW RATE	8.07				ft3/min
TVM-004-U	Group 8	5/27/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0106		0.0101	0.0101	ppmv
TVM-004-U	Group 8	5/27/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0181		0.0101	0.0101	ppmv

Notes:
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

Table A-10. Results from the Post SVE Evaluation Sampling Events.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVM-002-U	3Q2024	8/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0144		0.0101	0.0101	ppmv
TVM-002-U	3Q2024	8/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	3Q2024	8/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	3Q2024	8/1/2024	REG	Field Measure	FLOW RATE	5.99				ft3/min
TVM-002-U	3Q2024	8/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0452		0.0101	0.0101	ppmv
TVM-002-U	3Q2024	8/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.139		0.0101	0.0101	ppmv
TVM-002-U	4Q2024	11/19/2024	REG	Field Measure	CARBON DIOXIDE	35300				ppmv
TVM-002-U	4Q2024	11/19/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-002-U	4Q2024	11/19/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-002-U	4Q2024	11/19/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-002-U	4Q2024	11/19/2024	REG	Field Measure	FLOW RATE	3.65				ft3/min
TVM-002-U	4Q2024	11/19/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0161		0.0101	0.0101	ppmv
TVM-002-U	4Q2024	11/19/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.104		0.0101	0.0101	ppmv
TVM-003-U	3Q2024	8/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	3Q2024	8/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	3Q2024	8/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	3Q2024	8/1/2024	REG	Field Measure	FLOW RATE	4.32				ft3/min
TVM-003-U	3Q2024	8/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	3Q2024	8/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0652		0.0101	0.0101	ppmv
TVM-003-U	4Q2024	11/19/2024	REG	Field Measure	CARBON DIOXIDE	36600				ppmv
TVM-003-U	4Q2024	11/19/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	4Q2024	11/19/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-003-U	4Q2024	11/19/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-003-U	4Q2024	11/19/2024	REG	Field Measure	FLOW RATE	2.74				ft3/min
TVM-003-U	4Q2024	11/19/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-003-U	4Q2024	11/19/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.05		0.0101	0.0101	ppmv
TVM-004-V	3Q2024	8/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	3Q2024	8/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	3Q2024	8/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	3Q2024	8/1/2024	REG	Field Measure	FLOW RATE	4.9				ft3/min
TVM-004-V	3Q2024	8/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	3Q2024	8/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	4Q2024	11/19/2024	REG	Field Measure	CARBON DIOXIDE	2900				ppmv
TVM-004-V	4Q2024	11/19/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	4Q2024	11/19/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVM-004-V	4Q2024	11/19/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVM-004-V	4Q2024	11/19/2024	REG	Field Measure	FLOW RATE	11.25				ft3/min
TVM-004-V	4Q2024	11/19/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVM-004-V	4Q2024	11/19/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	3Q2024	8/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	3Q2024	8/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv

Table A-10. Results from the Post SVE Evaluation Sampling Events *(continued/end)*.

SVE Well Name	Sample Description	Sample Date	Sample Type	Analytical Method	Analyte	Result	Result Qualifier	EQL	MDL	Units
TVX-004-L	3Q2024	8/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	3Q2024	8/1/2024	REG	Field Measure	FLOW RATE	14.29				ft3/min
TVX-004-L	3Q2024	8/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	3Q2024	8/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0125		0.0101	0.0101	ppmv
TVX-004-L	4Q2024	11/19/2024	REG	Field Measure	CARBON DIOXIDE	4100				ppmv
TVX-004-L	4Q2024	11/19/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	4Q2024	11/19/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-004-L	4Q2024	11/19/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-004-L	4Q2024	11/19/2024	REG	Field Measure	FLOW RATE	4.21				ft3/min
TVX-004-L	4Q2024	11/19/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-004-L	4Q2024	11/19/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	3Q2024	8/1/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	3Q2024	8/1/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-L	3Q2024	8/1/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-L	3Q2024	8/1/2024	REG	Field Measure	FLOW RATE	0.69				ft3/min
TVX-007-L	3Q2024	8/1/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-L	3Q2024	8/1/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0501		0.0101	0.0101	ppmv
TVX-007-U	4Q2024	11/19/2024	REG	Field Measure	CARBON DIOXIDE	36200				ppmv
TVX-007-U	4Q2024	11/19/2024	REG	EPA5021A	CARBON TETRACHLORIDE	0.0101	U	0.0101	0.0101	ppmv
TVX-007-U	4Q2024	11/19/2024	REG	EPA5021A	CHLOROETHENE (VINYL CHLORIDE)	0.01	U	0.0100	0.0100	ppmv
TVX-007-U	4Q2024	11/19/2024	REG	EPA5021A	CIS-1,2-DICHLOROETHYLENE	0.0102	U	0.0102	0.0102	ppmv
TVX-007-U	4Q2024	11/19/2024	REG	Field Measure	FLOW RATE	9.69				ft3/min
TVX-007-U	4Q2024	11/19/2024	REG	EPA5021A	TETRACHLOROETHYLENE (PCE)	0.0101	U	0.0101	0.0101	ppmv
TVX-007-U	4Q2024	11/19/2024	REG	EPA5021A	TRICHLOROETHYLENE (TCE)	0.0101	U	0.0101	0.0101	ppmv

Notes:
3Q2024 – third quarter 2024
4Q2024 – fourth quarter 2024
EQL – Estimated Quantitation Limit
MDL – Method Detection Limit
SVE – Soil Vapor Extraction
ppmv – parts per million by volume
ft3/min – cubic feet per minute
Sample types: REG – Regular; FD – Field Duplicate
Qualifiers: U – Non-detect; J – Estimated

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Appendix B
Emission Rate Calculation Tables

Defintions

cfm – cubic feet per minute
lb/ft3 – pound per cubic feet
lb/month – pound per month
lb/yr – pound per year
ppmv – part per million by volume

Table B-1. Group 1 Emission Rate Calculations.

TVM-003-V	9/25/2023		9/26/2023		9/27/2023		9/28/2023		10/2/2023		10/9/2023		10/16/2023		Average or Total
Flow Rate (cfm)	6.82		8.96		7.2		6.56		7.17		7.69		7.63		7.43
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*7.71E-02*	*2.59E-08*	*6.84E-02*	*2.30E-08*	*6.05E-02*	*2.03E-08*	*5.69E-02*	*1.91E-08*	*5.18E-02*	*1.74E-08*	*5.08E-02*	*1.71E-08*	*0*	*0*	
Total Concentration (lb/ft3)	2.59E-08		2.30E-08		2.03E-08		1.91E-08		1.74E-08		1.71E-08		0		1.75E-08
Hours of Operation															360
Monthly Total (lb/month)															2.81E-03
Annual Total (lb/yr)															**3.38E-02**

TVX-002-L	9/25/2023		9/26/2023		9/27/2023		9/28/2023		10/2/2023		10/9/2023		10/16/2023		Average or Total
Flow Rate (cfm)	3.77		1.15		1.02		0.58		0.77		0.91		0.87		1.30
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.19E-02*	*4.00E-09*	
Total Concentration (lb/ft3)	0		0		0		0		0		0		4.00E-09		5.71E-10
Hours of Operation															360
Monthly Total (lb/month)															1.60E-05
Annual Total (lb/yr)															**1.92E-04**

TVX-004-U	9/25/2023		9/26/2023		9/27/2023		9/28/2023		10/2/2023		10/9/2023		10/16/2023		Average or Total
Flow Rate (cfm)	7.71		4.75		7.36		8.01		9.84		9.42		9.41		8.07
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*1.92E-02*	*6.45E-09*	*2.06E-02*	*6.92E-09*	*1.76E-02*	*5.91E-09*	*1.39E-02*	*4.67E-09*	*1.32E-02*	*4.43E-09*	*1.87E-02*	*6.28E-09*	*5.03E-02*	*1.69E-08*	
Total Concentration (lb/ft3)	6.45E-09		6.92E-09		5.91E-09		4.67E-09		4.43E-09		6.28E-09		1.69E-08		7.36E-09
Hours of Operation															360
Monthly Total (lb/month)															1.28E-03
Annual Total (lb/yr)															**1.54E-02**

Table B-2. Group 2 Emission Rate Calculations.

TVM-001-V	10/23/2023		10/24/2023		10/25/2023		10/26/2023		10/30/2023		11/6/2023		11/13/2023		Average or Total
Flow Rate (cfm)	8.27		6.26		6.94		8.24		5.04		7.71		7.49		7.14
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.33E-02*	*5.64E-09*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*0*	*0*	*1.05E-02*	*3.53E-09*	*0*	*0*	*0*	*0*	*0*	*0*	*1.02E-02*	*3.42E-09*	
Total Concentration (lb/ft3)	0		0		3.53E-09		0		0		5.64E-09		3.42E-09		1.80E-09
Hours of Operation															360
Monthly Total (lb/month)															2.77E-04
Annual Total (lb/yr)															**3.33E-03**

TVX-007-U	10/23/2023		10/24/2023		10/25/2023		10/26/2023		10/30/2023		11/6/2023		11/13/2023		Average or Total
Flow Rate (cfm)	14.1		13.18		13.3		12.9		13.6		15.09		15.11		13.90
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*2.49E-02*	*9.79E-09*	*1.71E-02*	*6.72E-09*	*1.66E-02*	*6.52E-09*	*1.30E-02*	*5.11E-09*	*1.19E-02*	*4.68E-09*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*4.62E-02*	*1.96E-08*	*3.75E-02*	*1.59E-08*	*4.47E-02*	*1.89E-08*	*4.05E-02*	*1.72E-08*	*2.99E-02*	*1.27E-08*	*4.47E-02*	*1.89E-08*	*3.72E-02*	*1.58E-08*	
TRICHLOROETHYLENE (TCE)	*5.86E-02*	*1.97E-08*	*4.65E-02*	*1.56E-08*	*5.20E-02*	*1.75E-08*	*4.75E-02*	*1.59E-08*	*4.79E-02*	*1.61E-08*	*5.11E-02*	*1.72E-08*	*5.25E-02*	*1.76E-08*	
Total Concentration (lb/ft3)	4.90E-08		3.82E-08		4.29E-08		3.82E-08		3.34E-08		3.61E-08		3.34E-08		3.88E-08
Hours of Operation															360
Monthly Total (lb/month)															1.16E-02
Annual Total (lb/yr)															**1.40E-01**

Table B-3. Group 3 Emission Rate Calculations.

TVX-004-L	11/27/2023		11/28/2023		11/29/2023		11/30/2023		12/4/2023		12/11/2023		12/18/2023		Average or Total
Flow Rate (cfm)	3.13		1.98		1.76		2.29		3.79		3.15		2.76		2.69
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*6.68E-02*	*2.24E-08*	*4.14E-02*	*1.39E-08*	*7.12E-02*	*2.39E-08*	*6.77E-02*	*2.27E-08*	*4.02E-02*	*1.35E-08*	*4.60E-02*	*1.54E-08*	*6.56E-02*	*2.20E-08*	
Total Concentration (lb/ft3)	2.24E-08		1.39E-08		2.39E-08		2.27E-08		1.35E-08		1.54E-08		2.20E-08		1.91E-08
Hours of Operation															360
Monthly Total (lb/month)															1.11E-03
Annual Total (lb/yr)															**1.34E-02**

TVX-006-L	11/27/2023		11/28/2023		11/29/2023		11/30/2023		12/4/2023		12/11/2023		12/18/2023		Average or Total
Flow Rate (cfm)	4.17		3.77		3.69		4.25		5.09		2.98		2.83		3.83
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*5.21E-02*	*1.29E-08*	*3.00E-02*	*7.43E-09*	*2.12E-02*	*5.25E-09*	*1.52E-02*	*3.76E-09*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.07E-02*	*3.59E-09*	*3.24E-02*	*1.09E-08*	*5.10E-02*	*1.71E-08*	
Total Concentration (lb/ft3)	1.29E-08		7.43E-09		5.25E-09		3.76E-09		3.59E-09		1.09E-08		1.71E-08		8.71E-09
Hours of Operation															360
Monthly Total (lb/month)															7.19E-04
Annual Total (lb/yr)															**8.63E-03**

TVX-002-U	11/27/2023		11/28/2023		11/29/2023		11/30/2023		12/4/2023		12/11/2023		12/18/2023		Average or Total
Flow Rate (cfm)	7.76		6.98		8.03		8.35		9.12		7.42		6.92		7.80
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*1.63E-02*	*5.47E-09*	*3.73E-02*	*1.25E-08*	*4.14E-02*	*1.39E-08*	*4.73E-02*	*1.59E-08*	*7.41E-02*	*2.49E-08*	*4.03E-02*	*1.35E-08*	*6.34E-02*	*2.13E-08*	
Total Concentration (lb/ft3)	5.47E-09		1.25E-08		1.39E-08		1.59E-08		2.49E-08		1.35E-08		2.13E-08		1.54E-08
Hours of Operation															360
Monthly Total (lb/month)															2.59E-03
Annual Total (lb/yr)															**3.10E-02**

Table B-3. Group 3 Emission Rate Calculations *(continued/end)*.

TVM-002-V	11/27/2023		11/28/2023		11/29/2023		11/30/2023		12/4/2023		12/11/2023		12/18/2023		Average or Total
Flow Rate (cfm)	10.47		11		10.32		6.79		7.35		6.53		6.2		8.38
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*0*	*0*	*0*	*0*	*1.93E-02*	*6.48E-09*	*3.58E-02*	*1.20E-08*	*4.46E-02*	*1.50E-08*	*9.82E-02*	*3.30E-08*	
Total Concentration (lb/ft3)	0		0		0		6.48E-09		1.20E-08		1.50E-08		3.30E-08		9.49E-09
Hours of Operation															360
Monthly Total (lb/month)															1.72E-03
Annual Total (lb/yr)															**2.06E-02**

Table B-4. Group 4 Emission Rate Calculations.

TVX-005-U	1/8/2024		1/9/2024		1/10/2024		1/11/2024		1/16/2024		1/22/2024		1/29/2024		Average or Total
Flow Rate (cfm)	11.64		3.78		11.08		8.93		8.56		10.88		11.05		9.42
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*1.07E-02*	*3.59E-09*	*0*	*0*	*0*	*0*	*1.03E-02*	*3.46E-09*	*0*	*0*	*0*	*0*	
Total Concentration (lb/ft3)	0		3.59E-09		0		0		3.46E-09		0		0		1.01E-09
Hours of Operation															360
Monthly Total (lb/month)															2.05E-04
Annual Total (lb/yr)															**2.46E-03**

TVM-004-V	1/8/2024		1/9/2024		1/10/2024		1/11/2024		1/16/2024		1/22/2024		1/29/2024		Average or Total
Flow Rate (cfm)	1.82		4.71		1.82		1.92		1.45		1.92		1.36		2.14
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.08E-02*	*4.24E-09*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*1.51E-02*	*6.40E-09*	*1.48E-02*	*6.27E-09*	*2.47E-02*	*1.05E-08*	*2.13E-02*	*9.02E-09*	*2.79E-02*	*1.18E-08*	
TRICHLOROETHYLENE (TCE)	*3.00E-02*	*1.01E-08*	*5.86E-02*	*1.97E-08*	*9.97E-02*	*3.35E-08*	*1.11E-01*	*3.73E-08*	*1.26E-01*	*4.23E-08*	*1.07E-01*	*3.59E-08*	*1.10E-01*	*3.69E-08*	
Total Concentration (lb/ft3)	1.01E-08		1.97E-08		3.99E-08		4.35E-08		5.28E-08		4.49E-08		5.30E-08		3.77E-08
Hours of Operation															360
Monthly Total (lb/month)															1.74E-03
Annual Total (lb/yr)															**2.09E-02**

Table B-5. Group 5 Emission Rate Calculations.

TVX-003-L	2/5/2024		2/6/2024		2/7/2024		2/8/2024		2/13/2024		2/20/2024		2/26/2024		Average or Total
Flow Rate (cfm)	0.95		0.85		1.34		0.93		1.51		1.89		0.71		1.17
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.10E-02*	*3.69E-09*	*0*	*0*	
Total Concentration (lb/ft3)	0		0		0		0		0		3.69E-09		0		5.28E-10
Hours of Operation															360
Monthly Total (lb/month)															1.33E-05
Annual Total (lb/yr)															**1.60E-04**

TVX-006-U	2/5/2024		2/6/2024		2/7/2024		2/8/2024		2/13/2024		2/20/2024		2/26/2024		Average or Total
Flow Rate (cfm)	11.15		17.21		18.62		19.41		18.06		15.47		16.75		16.67
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*1.16E-02*	*3.89E-09*	*0*	*0*	*1.04E-02*	*3.49E-09*	*1.02E-02*	*3.42E-09*	*1.14E-02*	*3.83E-09*	*1.14E-02*	*3.83E-09*	
Total Concentration (lb/ft3)	0		3.89E-09		0		3.49E-09		3.42E-09		3.83E-09		3.83E-09		2.64E-09
Hours of Operation															360
Monthly Total (lb/month)															9.50E-04
Annual Total (lb/yr)															**1.14E-02**

TVX-007-L	2/5/2024		2/6/2024		2/7/2024		2/8/2024		2/13/2024		2/20/2024		2/26/2024		Average or Total
Flow Rate (cfm)	1.3		0.67		1.14		0.75		0.61		1.12		1.2		0.97
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*3.19E-02*	*1.07E-08*	*5.06E-02*	*1.70E-08*	*3.87E-02*	*1.30E-08*	*3.15E-02*	*1.06E-08*	*3.58E-02*	*1.20E-08*	*7.63E-02*	*2.56E-08*	*4.83E-02*	*1.62E-08*	
Total Concentration (lb/ft3)	1.07E-08		1.70E-08		1.30E-08		1.06E-08		1.20E-08		2.56E-08		1.62E-08		1.50E-08
Hours of Operation															360
Monthly Total (lb/month)															3.15E-04
Annual Total (lb/yr)															**3.78E-03**

Table B-6. Group 6 Emission Rate Calculations.

TVX-005-L	3/11/2024		3/12/2024		3/13/2024		3/14/2024		3/18/2024		3/25/2024		4/1/2024		Average or Total
Flow Rate (cfm)	2.51		3.55		3.34		2.69		2.73		2.52		1.98		2.76
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.04E-02*	*2.58E-09*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
Total Concentration (lb/ft3)	0		0		0		0		0		0		2.58E-09		3.68E-10
Hours of Operation															360
Monthly Total (lb/month)															2.19E-05
Annual Total (lb/yr)															**2.63E-04**

TVM-003-U	3/11/2024		3/12/2024		3/13/2024		3/14/2024		3/18/2024		3/25/2024		4/1/2024		Average or Total
Flow Rate (cfm)	12.1		4.98		5.88		3.5		5.93		3.81		3.67		5.70
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*3.20E-02*	*1.07E-08*	*1.48E-01*	*4.97E-08*	*1.43E-01*	*4.80E-08*	*1.47E-01*	*4.94E-08*	*1.50E-01*	*5.04E-08*	*1.59E-01*	*5.34E-08*	*1.41E-01*	*4.73E-08*	
Total Concentration (lb/ft3)	1.07E-08		4.97E-08		4.80E-08		4.94E-08		5.04E-08		5.34E-08		4.73E-08		4.41E-08
Hours of Operation															360
Monthly Total (lb/month)															5.43E-03
Annual Total (lb/yr)															**6.51E-02**

Table B-7. Group 7 Emission Rate Calculations.

TVX-001-L	4/8/2024		4/9/2024		4/10/2024		4/11/2024		4/15/2024		4/22/2024		4/29/2024		Average or Total
Flow Rate (cfm)	7.44		6.69		7.33		8.06		7.28		0.95		7.74		6.50
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TRICHLOROETHYLENE (TCE)	*1.02E-02*	*3.42E-09*	*3.16E-02*	*1.06E-08*	*3.04E-02*	*1.02E-08*	*2.25E-02*	*7.55E-09*	*1.82E-02*	*6.11E-09*	*1.73E-02*	*5.81E-09*	*1.59E-02*	*5.34E-09*	
Total Concentration (lb/ft3)	3.42E-09		1.06E-08		1.02E-08		7.55E-09		6.11E-09		5.81E-09		5.34E-09		7.01E-09
Hours of Operation															360
Monthly Total (lb/month)															9.84E-04
Annual Total (lb/yr)															**1.18E-02**

TVM-002-U	4/8/2024		4/10/2024		4/9/2024		4/11/2024		4/15/2024		4/22/2024		4/29/2024		Average or Total
Flow Rate (cfm)	6.03		5.93		5.51		7.07		5.73		1.14		5.83		5.32
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*4.01E-02*	*1.70E-08*	*3.44E-02*	*1.46E-08*	*3.77E-02*	*1.60E-08*	*3.60E-02*	*1.53E-08*	*4.18E-02*	*1.77E-08*	*3.32E-02*	*1.41E-08*	
TRICHLOROETHYLENE (TCE)	*1.31E-01*	*4.40E-08*	*5.53E-01*	*1.86E-07*	*4.96E-01*	*1.67E-07*	*4.62E-01*	*1.55E-07*	*3.86E-01*	*1.30E-07*	*3.71E-01*	*1.25E-07*	*2.92E-01*	*9.80E-08*	
Total Concentration (lb/ft3)	4.40E-08		2.03E-07		1.81E-07		1.71E-07		1.45E-07		1.42E-07		1.12E-07		1.43E-07
Hours of Operation															360
Monthly Total (lb/month)															1.64E-02
Annual Total (lb/yr)															**1.97E-01**

Table B-8. Group 8 Emission Rate Calculations.

TVM-001-U	5/6/2024		5/7/2024		5/8/2024		5/9/2024		5/13/2024		5/20/2024		5/27/2024		Average or Total
Flow Rate (cfm)	4.46		4.83		5.12		4.87		2.23		9.32		4.24		5.01
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.34E-02*	*5.27E-09*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*1.36E-02*	*3.37E-09*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*2.49E-02*	*1.06E-08*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.08E-02*	*3.63E-09*	*1.63E-02*	*5.47E-09*	
Total Concentration (lb/ft3)	0		0		0		3.37E-09		0		3.63E-09		2.13E-08		4.04E-09
Hours of Operation															360
Monthly Total (lb/month)															4.37E-04
Annual Total (lb/yr)															**5.25E-03**

TVM-004-U	5/6/2024		5/7/2024		5/8/2024		5/9/2024		5/13/2024		5/20/2024		5/27/2024		Average or Total
Flow Rate (cfm)	3.12		4.58		5.61		0.84		1.93		3.36		8.07		3.93
Units	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	ppmv	lb/ft3	
CARBON TETRACHLORIDE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1.15E-02*	*4.52E-09*	*1.17E-02*	*4.60E-09*	*0*	*0*	
CHLOROETHENE (VINYL CHLORIDE)	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
CIS-1,2-DICHLOROETHYLENE	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
TETRACHLOROETHYLENE (PCE)	*0*	*0*	*0*	*0*	*1.34E-02*	*5.68E-09*	*0*	*0*	*1.50E-02*	*6.36E-09*	*1.99E-02*	*8.43E-09*	*1.06E-02*	*4.49E-09*	
TRICHLOROETHYLENE (TCE)	*0*	*0*	*4.80E-02*	*1.61E-08*	*7.61E-02*	*2.55E-08*	*4.57E-02*	*1.53E-08*	*5.42E-02*	*1.82E-08*	*5.20E-02*	*1.75E-08*	*1.81E-02*	*6.08E-09*	
Total Concentration (lb/ft3)	0		1.61E-08		3.12E-08		1.53E-08		2.91E-08		3.05E-08		1.06E-08		1.90E-08
Hours of Operation															360
Monthly Total (lb/month)															1.61E-03
Annual Total (lb/yr)															**1.93E-02**

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Appendix C
Results Not Included in Evaluation

Appendix C can be found in an Excel spreadsheet (i.e., .xlsx file) on CD submittal named "Appendix C."