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Subject: Delavan SVE System Construction completion report

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Cynde,

Attached is the construction completion report for the Installation of the SVE system at the Delavan facility in Bamberg. The system is up and running. Please contact me with any questions.

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Construction Completion Report – Soil Vapor Extraction System

**Delavan Spray Technologies Site
4334 Main Highway
US Highway 301 South
Bamberg, South Carolina**

VCC 13-4762-RP

Prepared by:

AECOM Technical Services, Inc.
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Raleigh, North Carolina

August 11, 2022

**CONSTRUCTION COMPLETION REPORT
- SOIL VAPOR EXTRACTION SYSTEM**

**DELAVAN SPRAY TECHNOLOGIES SITE
BAMBERG, SOUTH CAROLINA**

RESPONSIBLE PARTY VOLUNTARY CLEANUP CONTRACT NUMBER 13-4762

The undersigned certify that they have reviewed the attached document and that the document is in material compliance with the guidelines and requirements of the State of South Carolina and the South Carolina Department of Health and Environmental Control (SCDHEC) and specifically, requirements under the SCDHEC Voluntary Cleanup Contract (VCC). The data presentations contained herein are consistent with generally accepted practices in the environmental profession.

Prepared by:

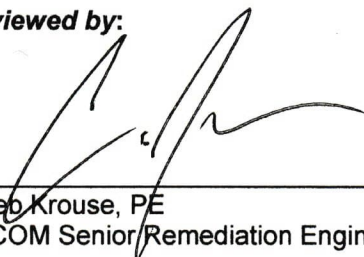


Ian J. Ros, PE
AECOM Remediation Engineer

8/11/2022

Date

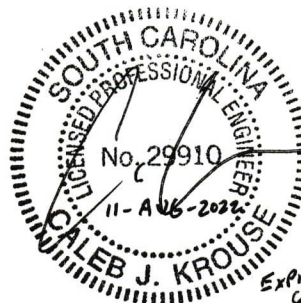
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Caleb Krouse, PE
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8/11/2022

Date



EXPIRES
6/30/2024

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2	Permits
3	SVE Screen Design Calculations
4	As-Built Drawings
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1.0 INTRODUCTION

AECOM Technical Services, Inc. (AECOM) has prepared this *Construction Completion Report* (CCR) to detail the installation and activation of a soil vapor extraction (SVE) system at the Delavan Spray Technologies Site (the Site). The Site is located at 4334 Main Highway (US Highway 301 South) in Bamberg, South Carolina (**Attachment 1**). A Voluntary Cleanup Contract (VCC) (VCC 13-4762-RP) for the Site was signed between South Carolina Department of Health and Environmental Control (SCDHEC) and Delavan Spray, LLC (Delavan) on July 13, 2013 (SCDHEC, July 2013).

2.0 BACKGROUND AND INTERIM REMOVAL ACTION OBJECTIVES

Assessment activities were initiated at the Site in 2003, after chlorinated volatile organic compounds (VOCs) were detected in groundwater beneath the Site. The primary compounds of concern (COCs) were reported to be tetrachloroethene (PCE) and its degradation products trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride (VC). A *Remedial Investigation* (RI) was implemented in accordance with the VCC in February and March 2014 (AECOM, July 2014). Several supplemental soil and groundwater investigations were performed between 2014 and 2020, including the recent *High-Resolution Site Characterization* (HRSC) investigation within and surrounding the main facility building (AECOM, March 2021). Based on the results of these investigations, elevated concentrations of PCE in soil directly below the building represent the most significant PCE release areas at the Site. During a meeting attended by SCDHEC, Raytheon Technologies, and AECOM on June 1, 2021, AECOM described the proposed installation of an SVE system utilizing horizontal wells to expedite removal of PCE mass in soil below the building. An *Interim Removal Action Work Plan* (IRAWP) was then prepared and submitted by AECOM on June 18, 2021 (AECOM, June 2021) to formally propose implementation of the SVE system interim action for SCDHEC approval. The objectives of SVE system interim action were described in the IRAWP and are summarized as follows:

- Remove PCE mass from areas of vadose zone impacts delineated during the HRSC investigation, and
- Provide vapor capture infrastructure for future groundwater remediation (i.e., capture vapors produced from future air sparging or vapor byproducts produced from other future groundwater remediation alternatives, such as in-situ chemical or biological oxidation or reduction).

As stated in the IRAWP, the SVE system interim action was not intended to represent a comprehensive remedy for the Site. As discussed with SCDHEC during the June 1, 2021 meeting, a *Feasibility Study* report (AECOM, November 2021) intended to present, evaluate, and select the comprehensive remedial action(s) for the Site was prepared and submitted by AECOM on November 30, 2021 for SCDHEC review and approval. Additional details of the Site and the Site history including previous investigations and remediation activities can be found in the *Feasibility Study* (AECOM, November 2021).

3.0 PERMITTING

Well construction and permitting requirements under South Carolina (SC) Regulations 61 - 71 were not applicable to the horizontal SVE wells due to the wells not breaching the water table. As such, no well permits were obtained for installation of the horizontal SVE wells.

Installation of the SVE system equipment required submittal of a building permit application to the Bamberg County Inspection Department (County). The County provided a building permit to the system installation contractor (Winter Environmental) and completed and signed off on the inspections required prior to the installation of the system electrical service (see **Section 4.4**).

The total area of land disturbing activities associated with the SVE system installation was estimated at approximately 0.2 acres. Per South Carolina (SC) Regulation 72, “[f]or land disturbing activities involving two (2) acres or less of actual land disturbance which are not part of a larger common plan of development or sale, the person responsible for the land disturbing activity shall submit a simplified stormwater management and sediment control plan meeting the requirements of R.72-307H. This plan does not require approval by the implementing agency and does not require preparation or certification by the designers specified in R.72-305H and R.72-305I.” Compliance with this regulation was accomplished by submitting the *Notification Form for Sites Disturbing Less Than 1-Acre (Not Part of a Larger Common Plan, Non-Coastal County)* (DHEC Form 2628) and the required attachments to SCDHEC prior to land disturbance. SCDHEC notice of receipt documentation as well as the map submitted with the permit application showing anticipated land disturbance areas is included in **Attachment 2**.

The SVE system will not require a new air quality construction permit nor modification of the Delavan facility’s existing Bureau of Air Quality State Operating Permit. Based on AECOM’s experience with similar systems and a review of Site soil and groundwater concentrations, the VOC mass extracted by the system will qualify for exemptions from air quality permitting under SC Regulation 61-62.1. Specifically, the total mass of applicable VOCs extracted by the system will fall below the 1,000 pound per month permitting exemption threshold under SC Regulation 61-62.1, Section 2(B)(2)(h) and the extracted mass of individual toxic air pollutants will fall below the applicable de minimis values under SC Regulation 61-62.1, Section 2(b)(6)(c). Most notably, mass extraction is expected to remain below the SC Toxics De Minimis value of 40.2 pounds per day (lbs/day) for PCE. During the horizontal well installation, a pilot test was performed to confirm these expectations (**Section 4.3**). Conditions F.1.7 and F.1.8 of the Delavan facility’s current permit grants the facility permission to construct and operate sources meeting the exemptions described above (SCDHEC, August 2020). Condition F.3 of the permit requires that the facility document specific information pertaining to permit exempt activities in its on-Site implementation log (OSIL). Condition F.5 of the permit requires the permittee to submit OSIL documentation to the SCDHEC once every five years. Based on these requirements, a summary of SVE system installation and operations, including documentation of calculated total VOC and individual constituent mass extraction rates, will be included in the OSIL and in the next applicable OSIL SCDHEC submittal.

4.0 SOIL VAPOR EXTRACTION SYSTEM INSTALLATION AND OPERATION

The following sections document the activities and procedures involved in the horizontal SVE well and SVE equipment installation as well as the SVE system start-up and operations.

4.1 Utility Clearance and Construction Zone Management

Prior to any intrusive activities, a private utility locating company was contracted through the primary subcontractor to locate and mark underground utilities within the anticipated work area. On August 23, 2021, West Locating was contracted by the drilling subcontractor (Ellingson-DTD) prior to horizontal well installation activities. On April 12, 2022, GPRS was contracted by the equipment installation contractor (Winter Environmental) prior to the SVE equipment installation activities. The South Carolina One Call service was contacted 72 hours prior to each mobilization to maintain an active ticket throughout intrusive work activities. Soft digging methods were utilized where well drilling entry points or piping trenches were excavated within 5 feet of a known utility. During each phase (horizontal well install and SVE equipment install) an exclusion zone was established around all work areas using a combination of traffic cones, snow fencing, and caution tape to prevent pedestrian and vehicle traffic through the work zone.

4.2 Horizontal SVE Well Design and Installation

Prior to mobilization to the Site, AECOM collaborated with the Ellingson-DTD on the well design to ensure feasibility of installation and performance. Since the wells were anticipated to be installed via single-entry (blind bore), schedule 80 polyvinyl chloride (PVC) was chosen as the well material to withstand the pushing force during installation. The well screen was then designed to have 0.2 percent (%) open area with perpendicular, 0.02-inch-wide slots. The SVE well screen design calculations are provided in **Attachment 3**.

On August 23, 2021, AECOM and Ellingson-DTD mobilized to the Site to begin installation of the horizontal SVE wells. A total of 7 SVE wells (SVE-1 through SVE-7) were installed below the main Delavan facility building via horizontal directional drilling (HDD) techniques. The horizontal well screens were installed to a target depth of approximately 6 feet below the building slab within the vadose zone soils. For each well, a concrete saw was used to cut and remove a section of asphalt and an entry pit was dug using a mini excavator. Ellingson-DTD used a Vermeer 24x40 drill rig to drill an open bore with a diameter of approximately 6 to 7 inches. A biodegradable polymer drilling fluid was used to advance the bore and prevent collapse during tooling removal. Once the tooling was removed, the well materials were pushed in from the entry to the terminus of the bore. To avoid downtime, Ellingson-DTD installed SVE-5 first so that AECOM could perform a pilot test (**Section 4.3**) while the other wells were being installed. Each well was developed using a water and enzyme solution to remove the bulk of drilling fluid and drill cuttings as well as accelerate breakdown of the polymer. Following the well flush, a high-pressure nozzle was used to jet the well screens with water to remove material that may have been pressed into the slots during well installation. Each well was then completed with a seal of neat cement which was installed via tremie pipe to seal the screened section from the surface. The horizontal well installation was completed on September 10, 2021. A summary of the well construction including average screen depths is provided in **Table 1**. As-

built Drawings are included in **Attachment 4 - Sheet 4** and the horizontal SVE well locations are shown on Sheet 3. An As-Built Report provided by Ellingson-DTD detailing well lengths and depths is included in **Attachment 5**.

4.3 SVE Pilot Test

On September 8, 2021, the pilot test was performed by AECOM during the installation of the horizontal SVE wells to evaluate the radius of influence (ROI) for a single SVE well to confirm appropriate spacing for SVE well network as well as evaluate vacuum and airflow rate of a single SVE well to confirm SVE blower design requirements. For the pilot test, vacuum was applied to SVE-5 for approximately 8 hours. Monitoring data was then collected throughout the duration of the test from several locations including vapor monitoring points (VMP), sub-slab vapor pins (SSV), monitoring wells, SVE-5, and the skid-mounted SVE blower. A photo-ionization detector (PID) was utilized to measure total VOC concentrations and mass discharge rates were calculated to confirm that the air permit exemption criteria was not exceeded. Confirmatory laboratory analytical samples were also collected at the beginning, middle, and end of the pilot test. VMP and SSV locations are shown in the SVE Pilot Test Layout which is provided in **Attachment 6**. Monitoring data collected during the pilot test is summarized in **Table 2**.

4.4 SVE Conveyance Piping and Equipment Installation

Prior to mobilization to the Site, the Bamberg Board of Public Works installed two power utility poles to run the electrical service from behind the main facility building (north side of property) to the southwest edge of the west parking lot. The utility poles were installed outside of the parking lot as to not interfere with employee vehicle traffic or parking. Locations of the newly installed utility poles and power lines are shown on **Attachment 4 - Sheet 3**.

On April 12, 2022, AECOM and Winter Environmental mobilized to the Site to begin installation of the SVE conveyance piping and equipment. A concrete saw was used to cut and remove asphalt and a small section of sidewalk before a 36-inch-wide trench was excavated with a mini excavator. The main trench was located to include all of the SVE well entry points and secondary trenches were excavated to connect each SVE wellhead to the main trench. Steel traffic plates were used to cover the trench where it crossed the driveway to maintain employee access to the west parking lot. A temporary crossing constructed out of 2-inch by 4-inch reinforced plywood was used to cover the trench where it crossed the sidewalk to maintain employee and visitor access to the main building entrance. Nine 4-inch schedule 40 PVC pipes were installed in the main trench to connect to each individual SVE well. 2 pipes were installed as spares to be used in the future, if deemed necessary. Five 1-inch high-density polyethylene pipes were also installed within the trench to be incorporated with an air sparge system in the future, if deemed necessary. A tracer wire was installed in the main trench and each secondary trench so conveyance piping could be easily located in the future. At each well head, a "T" fitting was installed with one leg used for connection to the conveyance pipe and the other leg used to create a stub-up fitted with an expanding lockable well cap that was finished at the surface with a 12-inch flush-mounted manhole. At the SVE equipment compound, the nine conveyance pipes were stubbed-up above ground within the equipment compound footprint to be secured later by the concrete pad. After the seven SVE conveyance pipe runs were complete, a low-pressure air test was

performed on each run to confirm that the piping wouldn't leak once a vacuum was applied after SVE system activation. The test consisted of applying approximately 10 to 12 pounds per square inch (psi) for approximately 30 minutes. The excavated native material consisted of fine to medium sand which served as adequate backfill for the trench and minimized waste generation. The native material was backfilled in lifts and each lift was compacted with a motorized tamper. Where located in asphalt, the trench backfill was covered in approximately six inches of compacted base course and then capped with six inches of concrete. Per request of the facility owners, the concrete in the parking lot and driveway was dyed in an effort to match the surrounding asphalt. Where located in grass, the trench was backfilled with native material to the surface. The trench, pipe installation, and backfill (not including concrete) was completed on May 3, 2022. The locations of the SVE well vaults, main trench, and secondary trench are shown in **Attachment 4 - Sheet 3**. Details of the trench and well head construction are shown in **Attachment 4 - Sheet 5** and **Attachment 4 - Sheet 6**, respectively.

To support the SVE equipment, a 16-foot by 32-foot area was graded and covered with four inches of compacted base course. A 6-inch concrete slab was then poured that encapsulated the SVE conveyance pipe stub-ups and the 4-inch by 4-inch wood fence posts. Concrete for the pad, trench, well vaults, and sidewalk section replacement was poured on the same day, May 4, 2022. The SVE system equipment was pre-assembled by Enviro-Equipment, Inc. within a standard shipping container and transported to the Site on May 5, 2022. The SVE systems main components include a control panel, intake manifold, blower, moisture separator, condensate transfer pump, and condensate storage tank. After delivery to the site, the equipment container was offloaded and temporarily staged near the equipment compound to allow the concrete adequate cure time. While the concrete was allowed to cure, the wooden fence enclosure was installed along the perimeter of the equipment compound. On May 11, 2022, a crane was remobilized to the Site to move the SVE equipment container on to the concrete pad. The SVE equipment installation was completed on May 18, 2022, and after the electrical inspection was completed, the Bamberg Board of Public Works completed the final connection to the power service. All disturbed areas were seeded with a rye and fescue grass seed mix, covered with straw matting, and hydrated. Construction details of the SVE conveyance pipe stub-ups and equipment compound are shown in **Attachment 4 - Sheet 6** and **Attachment 4 - Sheet 7**, respectively. A process and instrumentation diagram for the SVE system is shown in **Attachment 4 - Sheet 8**. A photographic log documenting the horizontal well and SVE equipment installation activities is provided in **Attachment 7**.

4.5 SVE System Start-up and Operations

The SVE system start-up occurred over two days. On June 15, 2022 (day 1), AECOM and Enviro-Equipment mobilized to the Site to activate the SVE system and perform any troubleshooting, if needed. The SVE system was activated by gradually introducing vacuum to each of the 7 horizontal SVE wells. On both days, monitoring data was collected from the SVE system and the pilot test monitoring points so that an optimum flow and vacuum could be determined for each well to maximize VOC mass removal. To confirm vacuum influence across the entire targeted area, vacuum was monitored at the pilot test monitoring points during all-well SVE operation and a single SVE well influence test was also performed. On day 1, vacuum measurements were collected from VMP-1 through VMP-6 and SSV-2, SSV-5, and SSV-6 while the SVE blower speed was set at half capacity (approximately 31 hertz [Hz]) and an average vacuum of

approximately 54 inches of water column (in-WC) was applied to each SVE well. On day 2, vacuum measurements were collected from the same locations with a blower speed of 32 Hz and an average vacuum of approximately 41 in-WC applied to each well. During the single SVE well influence test, a vacuum of approximately 54 inches of water column (in-WC) was applied to only SVE-2 and the valves for the other SVE wells were completely closed. Vacuum readings were then collected at the adjacent SVE well heads (SVE-1 and SVE-3). A vacuum of 0.140 in-WC and 0.234 in-WC was recorded at SVE-1 and SVE-3, respectively. Monitoring data collected during the 2-day start-up is summarized in **Table 3**. Monitoring data from hour 8 of the pilot test is also included in **Table 3** for comparison purposes.

Additionally, PID and flow measurements were collected again during start-up to confirm that mass extraction rates conform to air quality permit exemptions. Analytical samples were also collected from the influent and effluent streams of the SVE system. Due to the effluent concentrations generally being higher than that of the influent, the effluent sample was considered the more representative sample and was chosen for analytical comparison and mass removal evaluation as the more conservative approach. To calculate mass removal, the airflow rate of the SVE blower at the time of analytical sample collection was utilized to assume a constant rate for a full 24-hour day. During the pilot test, the peak mass removal rate of PCE was 0.0022 lbs/day and the peak mass removal rate for total VOCs was 0.052 lbs/day which both occurred during Hour 5. During SVE system startup, the peak mass removal rate of PCE was 1.230 lbs/day and the peak mass removal rate for total VOCs was 1.286 lbs/day which both occurred during Day 1. A summary of the analytical results from the pilot test and from the SVE system startup is provided in **Table 4** and the analytical laboratory reports for both events are included in **Attachment 8**. The mass removal calculations for the SVE pilot test and SVE system startup are summarized in **Table 5**.

5.0 WASTE MANAGEMENT

The waste generated during the horizontal SVE well installation including used drilling mud, well borehole drill cuttings, equipment decontamination wash water, and flush water from the well development was containerized in liquid tight roll-off boxes. The solids were allowed to settle and liquids were removed via vac truck. Specifically, waste was removed from the Site on August 31, 2021, September 3, 2021, and September 10, 2021, by Tradebe Environmental Services, LLC. A total of 12,700 gallons of non-hazardous liquid waste and 6.53 tons of non-hazardous solid waste were generated and disposed of in accordance with applicable State and Federal regulations during the horizontal SVE well installation. Copies of the waste manifests and weight tickets are included in **Attachment 9**.

The waste generated during the SVE equipment installation included excess soils from the SVE piping trench excavation. Excess soils were containerized in lined roll-off boxes and removed from the Site on May 3, 2022, and May 10, 2022, by Clean Harbors Environmental Services, Inc. A total of 49.7 tons of non-hazardous solid waste was generated and disposed of in accordance with applicable State and Federal regulations during the SVE equipment installation. Copies of the waste manifests and weight tickets are included in **Attachment 9**.

6.0 CONCLUSIONS

The SVE system interim action installation began August 23, 2021 and was completed when the system was activated on June 15, 2022. The interim action was able to be installed without any major deviations from the IRAWP. As discussed in the IRAWP and **Section 2.0** of this CCR, the primary objectives of the SVE system were to remove PCE mass from the targeted area and provide vapor capture for future groundwater remedies.

During the SVE pilot test and the 2-day SVE system startup, the VMP least influenced by the SVE system was VMP-6 and the SSV least influenced by the system was SSV-2. As expected, these points were the least influenced due to the points being located furthest from the beginning of the SVE well screen (SVE-5) where vacuum and flow is highest. To evaluate performance of the SVE system, a vacuum of 0.1 in-WC was assumed as the benchmark for vacuum influence. During the 2-day startup, VMP-6 averaged a measured vacuum of 0.95 in-WC and SSV-2 averaged 0.31 in-WC (**Table 3**). For comparison, the monitoring points located nearest to the beginning of the well screen averaged 13.55 in-WC (VMP-1) and 4.40 in-WC (SSV-5). Assuming this trend applies to each SVE well, this data indicates that sufficient vacuum is being achieved across the entire targeted area. Additionally, a vacuum of 0.140 in-WC and 0.234 in-WC was recorded at SVE-1 and SVE-3, respectively, when vacuum was applied only to SVE-2 during the single well influence test. Assuming this trend applies to each SVE well, this data indicates a radius of influence greater than 40 feet for each well. Since the extraction wells are spaced 40 feet apart, this indicates that the system would have sufficient lateral vacuum influence even if an interior extraction well were not operating.

Based on the mass calculations using the analytical data collected during the 2-day startup, the SVE system removed PCE at an estimated rate of 1.23 lbs/day on the first day and 0.498 lbs/day on the second day (**Table 5**). Additionally, the SVE system removed total VOCs at an estimated rate of 1.29 lbs/day on the first day and 0.60 lbs/day on the second day. This data indicates mass removal and reduction of PCE, and total VOCs, in the vadose zone within the targeted area.

During the 2-day startup, the variable frequency drive (VFD) was used to set an optimum speed of the blower motor at 32 Hz. With a max speed of 60 Hz, the SVE system is currently operating at half capacity. This data indicates further vapor capture potential of the SVE system for vapor byproducts produced from future groundwater remedies.

Based on the results discussed above, AECOM concludes that SVE interim action was successfully installed and achieves the primary objectives as set forth by the IRAWP.

AECOM will continue to perform routine inspection and operation and maintenance (O&M) on the SVE system. The routine O&M inspection tasks include the following:

- Collection of vacuum and flow readings
- System adjustments and optimization
- Blower inlet filter and dilution filter replacement
- Blower oil, grease, and belt replacement
- Cleaning of system components

- Checking float switches and alarms to confirm functionality
- Collection of influent and effluent PID readings
- Collection of effluent vapor laboratory analytical samples
- Response to and troubleshooting of unplanned system alarms and shutdowns.

The frequency of O&M inspections will decrease over time after consistent SVE system operation and performance has been established. In addition to routine inspections by the O&M technician, system monitoring and data logging will be performed by the Project Engineer via the remote telemetry.

Waste generated during system operations will include condensate water collected by the moisture separator. The condensate water will be characterized and, as needed, the condensate storage tank will be emptied via vac truck. The condensate will then be disposed of in accordance with applicable State and Federal regulations.

The SVE system operations data will be included in the semi-annual groundwater monitoring reports submitted to SCDHEC. The reports will include a summary of SVE system O&M activities, operation monitoring data, summaries of effluent vapor analytical sample results, and calculated extraction rates for total VOCs and individual vapor constituents. The semi-annual groundwater monitoring reports are typically submitted in March and September of each year. As discussed in **Section 2.0**, a summary of SVE system installation and operations will also be included in the facilities OSIL and in the next applicable OSIL SCDHEC submittal.

7.0 REFERENCES

AECOM, July 2014. *Remedial Investigation Report, United Technologies Corporation, Delavan Spray Technologies Site, 4334 Main Highway, Bamberg, South Carolina*. July 3, 2014.

AECOM, March 2021. *High Resolution Source Characterization Report, Delavan Spray Technologies Site, Bamberg, South Carolina, VCC 13-4762-RP*. March 9, 2021.

AECOM, June 2021. *Interim Removal Action Work Plan, Delavan Spray Technologies Site, Bamberg, South Carolina, VCC 13-4762-RP*. June 18, 2021.

AECOM, November 2021. *Feasibility Study, Delavan Spray Technologies Site, Bamberg, South Carolina, VCC 13-4762-RP*. June 18, 2021.

SCDHEC, July 2013. *Voluntary Cleanup Contract 13-4762-RP*. July 3, 2013

SCDHEC, August 2020. *Bureau of Air Quality State Operating Permit, Delavan Spray, LLC, 4334 Main Highway Bamberg, South Carolina 29003, Bamberg County Permit Number: SOP-0260-0013*. Issue Date: August 11, 2020. Effective Date: October 1, 2020.

TABLES

Table 1
Horizontal Well Construction Summary
Construction Completion Report - SVE System
Delavan Spray Technologies Site

SVE Well ID	Well Material	Well Diameter (in)	Screen Slot Size (in)	Screen Open Area (%)	Average Screen Depth (ft bgs)	Entry Angle (degrees from horizontal)	Screen Length (ft)	Riser Length (ft)	Total Well Length (ft)
SVE-1	SCH 80 PVC	4	0.020	0.2	5.88	-17.5	150	50	200
SVE-2	SCH 80 PVC	4	0.020	0.2	5.99	-17.5	150	50	200
SVE-3	SCH 80 PVC	4	0.020	0.2	6.04	-17	150	50	200
SVE-4	SCH 80 PVC	4	0.020	0.2	6.36	-17.5	150	54	204
SVE-5	SCH 80 PVC	4	0.020	0.2	7.34	-17.6	150	55	205
SVE-6	SCH 80 PVC	4	0.020	0.2	6.23	-16.5	150	50	200
SVE-7	SCH 80 PVC	4	0.020	0.2	5.91	-15	70	50	120
Total							970	359	1,329

Notes:
SVE - soil vapor extraction
SCH 80 - Schedule 80 pipe wall thickness
in - inches
ft - feet
bgs - below ground surface

Table 2
SVE Pilot Test Monitoring Data
Construction Completion Report - SVE System
Delavan Spray Technologies Site

Time	SVE Blower Blower Vacuum (in-WC)	SVE-5 Wellhead				Depth to Water		VMP-1			VMP-2			VMP-3		
		Vacuum (in-WC)	Temp. (Degrees F)	Flowrate (CFM)	PID (ppm)	MW-2 (ft BTOC)	MW-19 (ft BTOC)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)
10:10	0	0	92.6	0	>9999	11.53	12.62	-0.011	0	0	-0.012	0	30	-0.009	75	0
11:30	38	14	94.6	28.24	41.1	11.61	12.61	2	0	0	0.594	0	30	0.202	75	0
12:00	38	14.3	88.5	27.73	0	11.61	12.61	2	0	0	0.594	0	30	0.202	75	0
12:30	38	14.8	92.6	29.19	0	11.61	12.61	2	0	0	0.592	0	30	0.208	75	0
13:00	50	28.6	86.1	58.08	0	11.63	12.59	3.8	0	0	1	0	30	0.405	75	0
14:00	50	28.8	79.1	61.59	0	11.67	12.57	4.1	0	0	1.1	0	30	0.463	75	0
15:00	64	46	80.1	116.65	0	11.7	12.57	9.2	0	0	2.7	0	30	1.1	75	0
16:00	62	47.1	79.8	128.29	0	11.73	12.58	9.9	0	0	2.8	0	30	1.2	75	0
17:00	62	46.2	78	131.94	0	11.76	12.6	10.4	0	0	3.1	0	30	1.2	75	0
18:00	62	46.7	76.4	137.58	0	11.9	12.6	10.5	0	0	3.2	0	30	1.4	75	0
19:00	70	60.1	68.8	223.9	172	11.95	12.61	17.6	0	0	5.2	0	30	2.4	75	0

Time	SVE Blower Blower Vacuum (in-WC)	SVE-5 Wellhead				Depth to Water		VMP-4			VMP-5			VMP-6		
		Vacuum (in-WC)	Temp. (Degrees F)	Flowrate (CFM)	PID (ppm)	MW-2 (ft BTOC)	MW-19 (ft BTOC)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)
10:10	0	0	92.6	0	>9999	11.53	12.62	-0.004	75	20	-0.004	150	0	-0.006	150	10
11:30	38	14	94.6	28.24	41.1	11.61	12.61	0.178	75	20	0.019	150	0	0.017	150	10
12:00	38	14.3	88.5	27.73	0	11.61	12.61	0.178	75	20	0.019	150	0	0.017	150	10
12:30	38	14.8	92.6	29.19	0	11.61	12.61	0.18	75	20	0.021	150	0	0.003	150	10
13:00	50	28.6	86.1	58.08	0	11.63	12.59	0.353	75	20	0.007	150	0	0.008	150	10
14:00	50	28.8	79.1	61.59	0	11.67	12.57	0.405	75	20	0.029	150	0	0.027	150	10
15:00	64	46	80.1	116.65	0	11.7	12.57	0.938	75	20	0.33	150	0	0.209	150	10
16:00	62	47.1	79.8	128.29	0	11.73	12.58	1.036	75	20	0.507	150	0	0.34	150	10
17:00	62	46.2	78	131.94	0	11.76	12.6	1.062	75	20	0.542	150	0	0.369	150	10
18:00	62	46.7	76.4	137.58	0	11.9	12.6	1.1	75	20	0.66	150	0	0.446	150	10
19:00	70	60.1	68.8	223.9	172	11.95	12.61	1.9	75	20	1.2	150	0	0.787	150	10

Time	SVE Blower Blower Vacuum (in-WC)	SVE-5 Wellhead				Depth to Water		SSV-2			SSV-5			SSV-6		
		Vacuum (in-WC)	Temp. (Degrees F)	Flowrate (CFM)	PID (ppm)	MW-2 (ft BTOC)	MW-19 (ft BTOC)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)	Vacuum (in-WC)	Long. Distance (ft)	Lat. Distance (ft)
10:10	0	0	92.6	0	>9999	11.53	12.62	0	115	0	-0.011	0	30	0	75	20
11:30	38	14	94.6	28.24	41.1	11.61	12.61	0.007	115	0	0.571	0	30	0.18	75	20
12:00	38	14.3	88.5	27.73	0	11.61	12.61	0.007	115	0	0.571	0	30	0.18	75	20
12:30	38	14.8	92.6	29.19	0	11.61	12.61	0.004	115	0	0.591	0	30	0.182	75	20
13:00	50	28.6	86.1	58.08	0	11.63	12.59	0.014	115	0	1.1	0	30	0.355	75	20
14:00	50	28.8	79.1	61.59	0	11.67	12.57	0.015	115	0	1.1	0	30	0.397	75	20
15:00	64	46	80.1	116.65	0	11.7	12.57	0.096	115	0	2.7	0	30	0.949	75	20
16:00	62	47.1	79.8	128.29	0	11.73	12.58	0.123	115	0	3	0	30	1.062	75	20
17:00	62	46.2	78	131.94	0	11.76	12.6	0.135	115	0	3.1	0	30	1.088	75	20
18:00	62	46.7	76.4	137.58	0	11.9	12.6	0.149	115	0	3.2	0	30	1.1	75	20
19:00	70	60.1	68.8	223.9	172	11.95	12.61	0.285	115	0	5.1	0	30	2	75	20

Notes:
in-WC - inches of water column
ft - feet
Temp. - temperature
F - Fahrenheit
CFM - cubfic feet per minute
PID - photo-ionization detector
ppm - parts per million
ft BTOC - feet below top of casing
Long. - longitudinal distance along well screen
Lat. - lateral distance away from well sceen

Table 3
SVE System Startup Monitoring Data
Construction Completion Report - SVE System
Delavan Spray Technologies Site

			SVE Blower					SVE-5 Wellhead				VMP-1			VMP-2			VMP-3		
			Blower Vacuum	FIT-100 Flowrate	B-100 Speed	TI-101 Inlfuent Temp.	TI-102 Effluent Temp.	Vacuum	Vacuum	Temp.	Flowrate	Vacuum	Long. Distance	Lat. Distance	Vacuum	Long. Distance	Lat. Distance	Vacuum	Long. Distance	Lat. Distance
	Date	Time	(in-WC)	(CFM)	(Hz)	(°F)	(°F)	(in-Hg)	(in-WC)	(°F)	(CFM)	(in-WC)	(ft)	(ft)	(in-WC)	(ft)	(ft)	(in-WC)	(ft)	(ft)
Pilot Test	9/8/2021	18:00	62	-	-	-	-	3.4	46.7	76.4	137.58	10.5	0	0	3.2	0	30	1.4	75	0
Startup Day-1	6/15/2022	12:10	88.5	400.0	31	80	105	4	54.4	94.2	155	13.5	0	0	4.7	0	30	3.5	75	0
Startup Day-2	6/16/2022	10:00	61.2	427.5	32	80	105	3	40.8	-	-	13.6	0	0	4.8	0	30	3.7	75	0

			SVE Blower					SVE-5 Wellhead				VMP-4			VMP-5			VMP-6		
			Blower Vacuum	FIT-100 Flowrate	B-100 Speed	TI-101 Inlfuent Temp.	TI-102 Effluent Temp.	Vacuum	Vacuum	Temp.	Flowrate	Vacuum	Long. Distance	Lat. Distance	Vacuum	Long. Distance	Lat. Distance	Vacuum	Long. Distance	Lat. Distance
	Date	Time	(in-WC)	(CFM)	(Hz)	(°F)	(°F)	(in-Hg)	(in-WC)	(°F)	(CFM)	(in-WC)	(ft)	(ft)	(in-WC)	(ft)	(ft)	(in-WC)	(ft)	(ft)
Pilot Test	9/8/2021	18:00	62	-	-	-	-	3.4	46.7	76.4	137.58	1.1	75	20	0.66	150	0	0.446	150	10
Startup Day-1	6/15/2022	12:10	88.5	400.0	31	80	105	4	54.4	94.2	155	3.2	75	20	1.5	150	0	0.9	150	10
Startup Day-2	6/16/2022	10:00	61.2	427.5	32	80	105	3	40.8	-	-	3.5	75	20	1.8	150	0	1.0	150	10

			SVE Blower					SVE-5 Wellhead				SSV-2			SSV-5			SSV-6		
			Blower Vacuum	FIT-100 Flowrate	B-100 Speed	TI-101 Inlfuent Temp.	TI-102 Effluent Temp.	Vacuum	Vacuum	Temp.	Flowrate	Vacuum	Long. Distance	Lat. Distance	Vacuum	Long. Distance	Lat. Distance	Vacuum	Long. Distance	Lat. Distance
	Date	Time	(in-WC)	(CFM)	(Hz)	(°F)	(°F)	(in-Hg)	(in-WC)	(°F)	(CFM)	(in-WC)	(ft)	(ft)	(in-WC)	(ft)	(ft)	(in-WC)	(ft)	(ft)
Pilot Test	9/8/2021	18:00	62	-	-	-	-	3.4	46.7	76.4	137.58	0.149	115	0	3.2	0	30	1.1	75	20
Startup Day-1	6/15/2022	12:10	88.5	400.0	31	80	105	4	54.4	94.2	155	0.3	115	0	4.4	0	30	3.1	75	20
Startup Day-2	6/16/2022	10:00	61.2	427.5	32	80	105	3	40.8	-	-	0.326	115	0	4.4	0	30	3.5	75	20

Notes:
in-WC - inches of water column
ft - feet
Hz - hertz
Temp. - temperature
°F - degrees Fahrenheit
CFM - cubfic feet per minute
ft BTOC - feet below top of casing
Long. - longitudinal distance along well screen
Lat. - lateral distance away from well sceen
FIT-100 - total SVE flowrate reading
B-100 - SVE blower speed reading

Table 4
SVE Analytical Results Summary
Construction Completion Report - SVE System
Delavan Spray Technologies Site

	Sample ID	Sample Date	Acetone (2-Propanone)	Benzene	Bromomethane	Carbon Disulfide	Chloromethane	Cyclohexane	1,2-Dibromoethane (EDB)	1,1-Dichloroethylene	trans-1,2-Dichloroethylene	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	m-Dichlorobenzene	Ethanol	Ethylbenzene	Ethyl Acetate	4-Ethyltoluene	Heptane	Hexane	2-Hexanone
Pilot Test	SVE-5-BASE	9/8/2021	261	ND	1.7 J	ND	2.1	ND	ND	ND	ND	ND	2.5 J	5.5	42.6	2.0 J	19	2.0 J	ND	ND	28
	SVE-5-MID	9/8/2021	333	ND	ND	9.3 J	ND	ND	216	ND	ND	ND	ND	ND	232	13 J	136	16 J	ND	564	ND
	SVE-5-FINAL	9/8/2021	35.9	1.8 J	ND	ND	2.0	ND	ND	ND	ND	ND	2.4 J	ND	30.9	2.3 J	ND	1.9 J	ND	56.7	ND
Startup Day-1	SVE-EFF(061522)	6/15/2022	118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20 J	ND	ND	ND	ND
Startup Day-2	SVE-EFF(061622)	6/16/2022	128	315	ND	ND	ND	9.6 J	ND	8.3 J	8.3 J	12 J	ND	ND	58	105	28	29	21	7.8 J	ND

	Sample ID	Sample Date	Isopropyl Alcohol	Methylene Chloride	Methyl ethyl ketone	Propylene	Styrene	1,1,1-Trichloroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2,2,4-Trimethylpentane	Tertiary Butyl Alcohol	Tetrachloroethylene	Tetrahydrofuran	Toluene	Trichloroethylene	Vinyl Acetate	m,p-Xylene	o-Xylene	Xylenes (total)
Pilot Test	SVE-5-BASE	9/8/2021	113	3.8	324	16	ND	2.1 J	ND	9.3	2.9 J	ND	2.2 J	304	99.4	9.8	9.1	3.9	8.7	4.8	13
	SVE-5-MID	9/8/2021	51.6	ND	313	ND	22	ND	45	49.6	27	ND	ND	212	2550	15	ND	ND	40	46.0	86.4
	SVE-5-FINAL	9/8/2021	29.7	8.7	23	0.76 J	1.9 J	ND	ND	5.4	2.3 J	ND	1.4 J	11	167	6.4	ND	ND	9.1	4.8	14
Startup Day-1	SVE-EFF(061522)	6/15/2022	ND	18 J	47.5	ND	ND	152	ND	ND	ND	ND	ND	34,300	1150	22 J	27	ND	ND	ND	ND
Startup Day-2	SVE-EFF(061622)	6/16/2022	12	18	75.8	10 J	ND	43	ND	70.8	25	14 J	ND	13,000	98.5	381	32	ND	426	144	569

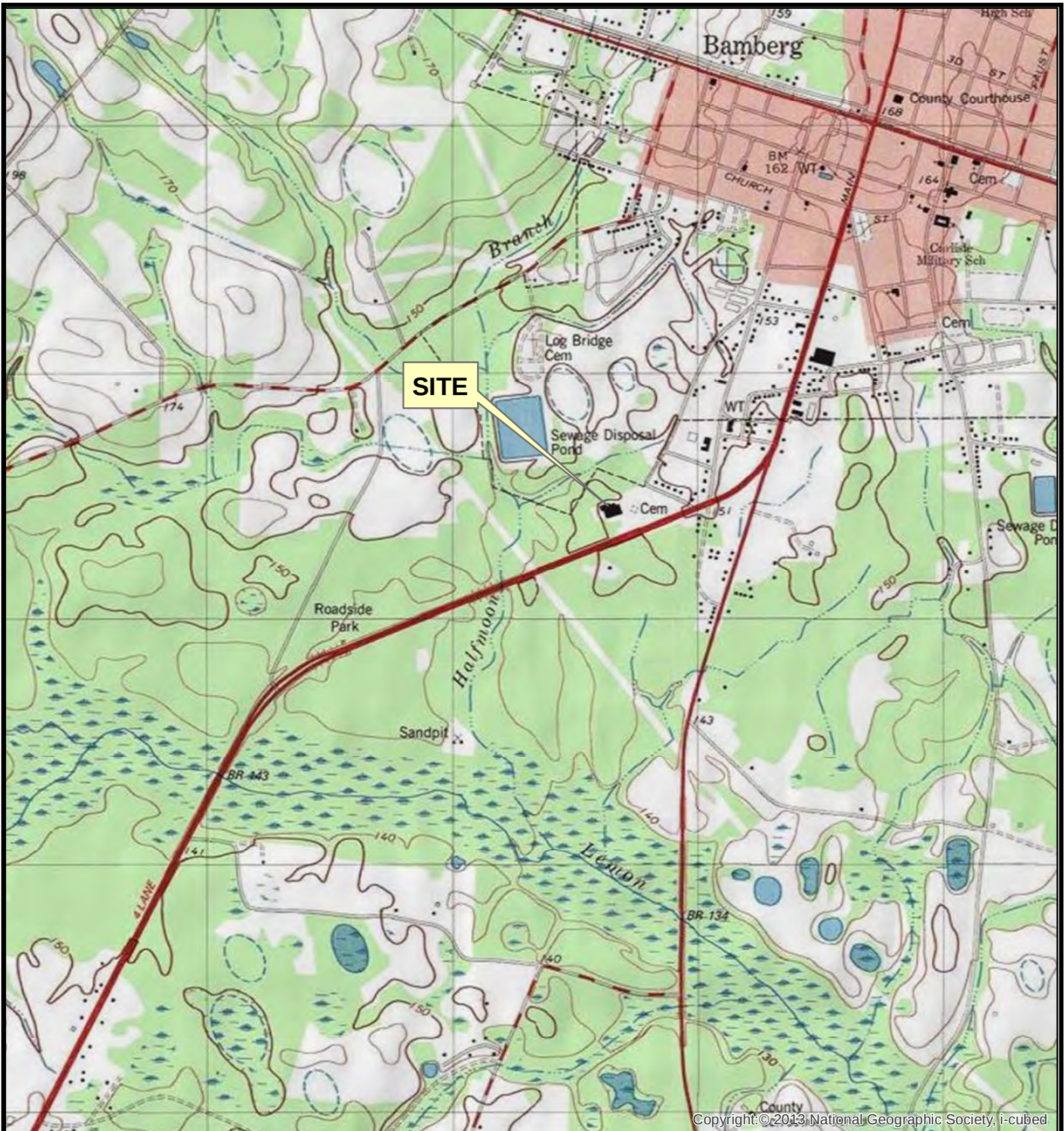
Notes:
All detections are shown.
Concentrations are reported as micrograms per cubic meter (ug/m³).
J - indicates an estimated value.
ND - analyte not detected at or above the method detection limit.

Table 5
SVE Mass Removal Calculations
Construction Completion Report - SVE System
Delavan Spray Technologies Site

Sample ID	Pilot Test						Startup Day-1		Startup Day-2	
	SVE-5-BASE		SVE-5-MID		SVE-5-FINAL		SVE-EFF(061522)		SVE-EFF(061622)	
Airflow Rate (CFM)	28.24		116.65		137.58		400		427.5	
Analyte	ug/m ³	lbs/day	ug/m ³	lbs/day	ug/m ³	lbs/day	ug/m ³	lbs/day	ug/m ³	lbs/day
Acetone (2-Propanone)	261	6.608E-04	333	3.483E-03	35.9	4.428E-04	118	4.232E-03	128	4.906E-03
Benzene		0.000E+00		0.000E+00	1.8	2.220E-05		0.000E+00	315	1.207E-02
Bromomethane	1.7	4.304E-06		0.000E+00		0.000E+00		0.000E+00		0.000E+00
Carbon Disulfide		0.000E+00	9.3	9.726E-05		0.000E+00		0.000E+00		0.000E+00
Chloromethane	2.1	5.317E-06		0.000E+00	2	2.467E-05		0.000E+00		0.000E+00
Cyclohexane		0.000E+00		0.000E+00		0.000E+00		0.000E+00	9.6	3.679E-04
1,2-Dibromoethane (EDB)		0.000E+00	216	2.259E-03		0.000E+00		0.000E+00		0.000E+00
1,1-Dichloroethylene		0.000E+00		0.000E+00		0.000E+00		0.000E+00	8.3	3.181E-04
trans-1,2-Dichloroethylene		0.000E+00		0.000E+00		0.000E+00		0.000E+00	8.3	3.181E-04
cis-1,2-Dichloroethylene		0.000E+00		0.000E+00		0.000E+00		0.000E+00	12	4.599E-04
Dichlorodifluoromethane	2.5	6.330E-06		0.000E+00	2.4	2.960E-05		0.000E+00		0.000E+00
m-Dichlorobenzene	5.5	1.393E-05		0.000E+00		0.000E+00		0.000E+00		0.000E+00
Ethanol	42.6	1.079E-04	232	2.426E-03	30.9	3.811E-04		0.000E+00	58	2.223E-03
Ethylbenzene	2	5.064E-06	13	1.360E-04	2.3	2.837E-05		0.000E+00	105	4.024E-03
Ethyl Acetate	19	4.810E-05	136	1.422E-03		0.000E+00	20	7.172E-04	28	1.073E-03
4-Ethyltoluene	2	5.064E-06	16	1.673E-04	1.9	2.344E-05		0.000E+00	29	1.111E-03
Heptane		0.000E+00		0.000E+00		0.000E+00		0.000E+00	21	8.049E-04
Hexane		0.000E+00	564	5.898E-03	56.7	6.994E-04		0.000E+00	7.8	2.990E-04
2-Hexanone	28	7.089E-05		0.000E+00		0.000E+00		0.000E+00		0.000E+00
Isopropyl Alcohol	113	2.861E-04	51.6	5.396E-04	29.7	3.663E-04		0.000E+00	12	4.599E-04
Methylene Chloride	3.8	9.621E-06		0.000E+00	8.7	1.073E-04	18	6.455E-04	18	6.899E-04
Methyl ethyl ketone	324	8.203E-04	313	3.273E-03	23	2.837E-04	47.5	1.703E-03	75.8	2.905E-03
Propylene	16	4.051E-05		0.000E+00	0.76	9.374E-06		0.000E+00	10	3.833E-04
Styrene		0.000E+00	22	2.301E-04	1.9	2.344E-05		0.000E+00		0.000E+00
1,1,1-Trichloroethane	2.1	5.317E-06		0.000E+00		0.000E+00	152	5.451E-03	43	1.648E-03
1,2,4-Trichlorobenzene		0.000E+00	45	4.706E-04		0.000E+00		0.000E+00		0.000E+00
1,2,4-Trimethylbenzene	9.3	2.355E-05	49.6	5.187E-04	5.4	6.661E-05		0.000E+00	70.8	2.714E-03
1,3,5-Trimethylbenzene	2.9	7.342E-06	27	2.824E-04	2.3	2.837E-05		0.000E+00	25	9.582E-04
2,2,4-Trimethylpentane		0.000E+00		0.000E+00		0.000E+00		0.000E+00	14	5.366E-04
Tertiary Butyl Alcohol	2.2	5.570E-06		0.000E+00	1.4	1.727E-05		0.000E+00		0.000E+00
Tetrachloroethylene	304	7.697E-04	212	2.217E-03	11	1.357E-04	34300	1.230E+00	13000	4.983E-01
Tetrahydrofuran	99.4	2.517E-04	2550	2.667E-02	167	2.060E-03	1150	4.124E-02	98.5	3.775E-03
Toluene	9.8	2.481E-05	15	1.569E-04	6.4	7.894E-05	22	7.890E-04	381	1.460E-02
Trichloroethylene	9.1	2.304E-05		0.000E+00		0.000E+00	27	9.683E-04	32	1.226E-03
Vinyl Acetate	3.9	9.874E-06		0.000E+00		0.000E+00		0.000E+00		0.000E+00
m,p-Xylene	8.7	2.203E-05	40	4.183E-04	9.1	1.122E-04		0.000E+00	426	1.633E-02
o-Xylene	4.8	1.215E-05	46	4.811E-04	4.8	5.921E-05		0.000E+00	144	5.519E-03
Xylenes (total)	13	3.291E-05	86.4	9.036E-04	14	1.727E-04		0.000E+00	569	2.181E-02
Total	1,292.40	0.0033	4,976.90	0.0520	419.36	0.0052	35,854.50	1.2858	15,649.10	0.5998

Notes:
lbs/day = (Concentration ug/m³)*(Airflow rate ft³/min)*(0.0283 m³/ft³)*(0.000001 g/ug)*(0.0022 lbs/g)*(1440 min/day)
lbs - pounds
ug/m³ - micrograms per cubic meter
ft³ - cubic feet
min - minute
g - gram
SVE - soil vapor extraction
CFM - cubic feet per minute

**ATTACHMENT 1
SITE LOCATION MAP**



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0 500 1,000 2,000 3,000 4,000
Feet

U.S.G.S. QUADRANGLE MAP
BAMBERG, SC 1979 (PHOTO REVISED 1987)

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

AECOM

10 Patewood Drive, Building 6, Suite 500
Greenville, SC 29615
T: (864) 234-3000 F: (864) 234-3069

Delavan Spray Technologies Site
Bamberg, South Carolina

Site Location Map

Project No.
60675502

Prepared by
KCG

Date
January 2021

Attachment 1

**ATTACHMENT 2
PERMITS**



**Notification Form for Sites Disturbing
Less Than 1-Acre
(Not Part of a Larger Common Plan,
Non-Coastal County)**

Notification #: _____ (For Official Use Only)

Note: This form is for use on projects located outside of the eight coastal counties (Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Horry, and Jasper) and that are NOT part of a larger common plan for development or sale.

Date: _____
Project/ Site Name: Delevan Spray County: Bamberg

I. Project Information

- A. Is this project part of a Larger Common Plan for Development or Sale (LCP)? ☐ Yes ☒ No
- B. Project Owner/ Operator (Company or person): Delevan Spray, LLC
Company EIN: 26-1674758 Phone: 803-245-6565 Fax: _____
Mailing Address: 4334 Main Highway City: Bamberg State: SC Zip: 29003
Email address: Todd.McLeod2@collins.com
- C. Permit Contact (if owner is company): AECOM Technical Services, Inc. (Jasen Zinna, PE)
Mailing Address: 5438 Wade Park Blvd, Ste 200 City: Raleigh State: NC Zip: 27607
Phone: (Day) _____ (Mobile) 561-271-9662 (Fax) _____
Email address: jasen.zinna@aecom.com

II. Property Information

- A. Site Location (street address, nearest intersection, etc.): 4334 Main Highway
City/ Town (if in limits): Bamberg Latitude: _____° _____' _____" N Longitude: _____° _____' _____" W
Tax map # (list all): 0072-08-01-001
- B. Property Owner (if different from section I above): _____
Mailing Address: _____ City: _____ State: _____ Zip: _____
Phone: (Day) _____ Email address: _____

III. Site Information

- A. Disturbed area (to the nearest tenth of an acre): _____ Total area: _____
- B. Start Date (MM/DD/YYYY): 03 / 07 / 2022 Completion Date: _____/_____/_____
- C. Are there any flooding problems downstream of or adjacent to this site? ☐ Yes ☒ No
- D. Has S.C. DHEC issued a Notice to Comply or Notice of Violation for this site or LCP? ☐ Yes ☒ No
- E. Type of Activity (check all that apply):
☐ Residential: Single-family ☐ Residential: Multi-family ☐ Industrial ☐ Institutional
☐ Multi-use (Commercial & Residential) ☐ Site Preparation (No new impervious) ☒ Linear ☒ Other: Environmental
- F. Is any part of the property located inside an MS4 or urbanized area? ☐ Yes ☒ No
If yes, list the MS4 operator or urbanized area name: _____

IV. Waterbody Information

- A. Nearest receiving waterbody(s) [RWB]: _____ Distance to Nearest RWB (feet): _____
- B. 1. Are there any Waters of the United States/ Waters of the State, jurisdictional or non-jurisdictional wetlands, or any other waters located on site? ☐ Yes ☒ No
2. Are there any impacts to any of the on-site Waters of the U.S./State, jurisdictional or non-jurisdictional wetlands, or any other waters? ☐ Yes ☒ No
- C. If yes for impacts in item B.2, describe each impact and activity, and list all permits (e.g., USACOE Nationwide Permit, DHEC General Permit) and certifications that have been applied for or obtained for each impact.

V. Signatures and Certifications: DO NOT SIGN IN BLACK INK!

- A. Per my signature below, I hereby certify that this project is not part of a Larger Common Plan (LCP) for Development or Sale. I understand that additional construction activities at this site may require permit coverage and I am responsible for obtaining any federal, state, or local permits that may be required for this project.

I certify that all land-disturbing construction and associated activity pertaining to this site shall be accomplished pursuant to and in keeping with the terms and conditions of all relevant regulations, including the Storm Water Management and Sediment Reduction Act of 1991 and the Federal Clean Water Act. Failure to do so may result in penalties. I hereby grant authorization to the Department of Health and Environmental Control and/or the local implementing agency the right of access to the site at all times for the purpose of on site inspections during the course of construction and to perform maintenance inspections following the completion of the land-disturbing activity. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

T. David Graham Jr.
Printed name of Project Owner/Operator

T. David Graham Jr.
Signature of Project Owner/Operator

2/14/2022
Date

Instructions

This form is for the use on projects that will disturb less than 1 acre and are **not** a part of Larger Common Plan (LCP) for development or sale. It may **not** be used on projects located in the eight counties comprising the S.C. Coastal Zone (Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Horry, and Jasper counties).

Completing the Application:

You must type or print legibly. You must include the original, signed notification form and one (1) copy of a sketch plan outlining the anticipated activities and the location of all proposed sediment and erosion control devices.

Where to File: (For projects that are **not** located within the Coastal Zone and are **not** part of a LCP.)

Via Email

Stormwaterlessthan1@dhec.sc.gov
(All files must be submitted as PDFs.)

Via Mail

S.C.DHEC—Stormwater Permitting Section
2600 Bull Street
Columbia, SC 29201-1708

Project/ Site Name

The Project/ Site Name should be a unique or distinguishing name (e.g., not Proposed Subdivision).

Property Information

The official or legal name of the Project Owner/ Operator should be listed under section A. If the Project Owner/ Operator is a company, then a Permit Contact person should be listed under section B. This can be someone other than the person that has signatory authority for the company. **Please provide all requested information including email addresses.**

Property Information

- If this project is part of a Larger Common Plan for sale or development, then mark Yes. Otherwise mark No.
- List a city/town only if the site is within the city/ town limits. See the following website for assistance in obtaining latitude/ longitude coordinates: http://www.epa.gov/tri/report/siting_tool/index.htm. Latitude (from 32° to 35°) and longitude (78° to 83°) should be for the center of the site to the nearest 15". Minutes (') should be from 0 to 59, and seconds (") should be 0, 15, 30, or 45.
- If the Project Owner/ Operator does not own the project site, then list the official or legal name of the current Property Owner of the site. NPDES coverage will be issued to the Project Owner/ Operator (Section I), not the Property Owner, unless same entity.

Site Information

- The total and disturbed areas should be rounded to the nearest tenth of an acre.
- List the estimated start and completion dates of the construction activity.
- If there are any downstream flooding problems, then mark Yes. Otherwise mark No.
- If S.C. DHEC has issued a Notice to Comply or Notice of Violation for this site or LCP check Yes, otherwise check No.
- Identify the type of activity on this site by checking all that apply. Institutional includes schools and other publicly owned projects, except Linear projects. Site Preparation includes clearing, grubbing, and grading only; no new impervious areas should be proposed if this activity type is checked.
- If any of the property is located inside an urbanized area or MS4, then list the entity and contact the respective MS4 or UA to identify applicable project requirements. See the following website for information about MS4s: <http://www.scdhec.gov/environment/water/swnsms4.htm>.
Urbanized area boundary maps are available at <http://cfpub.epa.gov/npdes/stormwater/urbanmapresult.cfm?state=SC>.

Waterbody Information

- The nearest receiving waterbody is the nearest Waters of the State (WOS)(see definition in S.C. Regulation 61-9—<http://www.scdhec.gov/environment/water/reg.htm>) to which the site's stormwater will discharge. If this waterbody is unnamed, then provide a description that references the nearest, named waterbody (e.g., tributary to Grove Creek). If the site's stormwater discharges to multiple waterbodies, then list all such waterbodies and attach additional sheets, if necessary.
- If there are other waters of the U.S./ State on the site not listed in item A (e.g., lake, pond), then mark Yes under item B.1. If there are proposed impacts to these or any WoS, then mark Yes under item B.2. It is also advised that you contact USACOE (866-329-8187) and/ or S.C. DHEC Water Quality Certification, Standards & Wetlands Programs Section (803-898-4300) about these impacts.
- If items B.1 and B.2 were marked Yes, then describe the scope of all impacts to the referenced Waters of the State and list all permits and certifications that have been applied for or obtain which addresses each impact.

Signatures and Certifications

DO NOT SIGN IN BLACK INK! This form must contain original signatures.

- If the Project Owner / Operator is a company, print the name of the person who is signing the NOI for the Project Owner / Operator. A person with signatory authority for the Project Owner / Operator must sign the application. Please see §122.22 of S.C. Reg. 61-9 (Appendix C of the CGP) for complete information about signatory authority.

Office Mechanics & Filing

- Form will be available online for all applicants.



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment

Less Than One Acre (Not Part of LCP) Project Requirements In Non-Coastal Counties

This document provides guidance for projects that disturb less than one (1) acre; are not part of a larger common plan for development or sale (LCP); and are located outside of the 8 coastal counties (Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Horry and Jasper) subject to the requirements of the S.C. Coastal Zone Management Plan. ; and are not part of a MS4 or Urbanized Area (UA). If the less than one (1) acre project is to be constructed in a MS4 or urbanized area, the respective MS4 or UA must be consulted to identify applicable project requirements. The Where-to-apply guidance may also be consulted for MS4/UA contact information.

Regulatory Basis: The S.C. Stormwater Management and Sediment Reduction Act (R.72-300) requires that for land disturbing activities involving two (2) acres or less of actual land disturbance which are not part of a larger common plan of development or sale, the person responsible for the land disturbing activity shall submit a simplified stormwater management and sediment control plan meeting the requirements of R.72-307H. In addition to R.72-300, all projects that disturb 1 acre or more are subject to the requirements of the NPDES General Permit for Storm Water Discharges from Large and Small Construction Activities (CGP). Additionally, projects may be subject to requirements of local governments through local ordinances, in particular, those areas that are considered Municipal Separate Storm Sewer Systems (MS4s) under the NPDES program. Please see <http://www.scdhec.gov/environment/water/swmsms4.htm> for more information. **This specific guidance addresses requirements only for less than one (1) acre non-coastal projects that are not part of a LCP.**

Definition LCP: The plan in LCP is "broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot." [63 Federal Register No. 128, July 6, 1998, p. 36491] For example, if master calculations have been prepared and/or submitted for an entire site, then all phases and parcels at that site would be considered part of an LCP. If the site is part of a subdivision, industrial park, commercial park, etc., then it is considered to be part of an LCP. If there have been land-disturbing activities, including clearing, grading or excavating, that resulted in one (1) disturbed acre or more since 1992, then any future land-disturbing activities at the site are considered to be part of an LCP.

Less Than One (1) Acre Non-Coastal Project Requirements:

Projects that disturb less than 1 acre and are not part of a larger common plan for development or sale (LCP) require the submittal of a simplified plan sheet and Notification Form (DHEC Form 2628) or other form provided by DHEC. **Please note that stormwater detention is not required under R. 72-300 for projects in this program area, however, these projects are required to provide adequate sediment and erosion controls in order to insure no offsite sedimentation into Waters of the State, adjacent properties, and public right-of-ways. Please also note that the Department does not regulate the placement of fill in floodplains. You must contact your local city or county official for such approval. Following is a summary of DHEC's submittal requirements for non-coastal projects that disturb less than one (1) acre and are not part of a LCP or MS4/UA:**

1. Provide one (1) complete (signed and dated) Notification Form (DHEC Form 2628) or other form provided by DHEC. *Note: The Notification form must be signed and dated by the Project Owner/Operator.*
2. Provide one (1) copy of the plan/sketch. *Note: Plan is not required to be prepared by an engineer, Tier B surveyor, or landscape architect; however, if an individual with one of these licenses prepares the plan, then they must sign and seal the plans. The sketched plan should include:*
 - (a) A site location drawing of the proposed project, indicating the location of the proposed project in relation to roadways, jurisdictional boundaries, streams and rivers; (b) The boundary lines of the site on which the work is to be performed; (c) The location of temporary and permanent vegetative and structural stormwater management and sediment control measures; and (d) A topographic map of the site (if required by the implementing agency).
3. A narrative description of the stormwater management and sediment control plan to be used during land disturbing activities. *Note: This may be included on the plans instead of in a written narrative. Include a general description of topographic and soil conditions of the property. Include a general description of adjacent property and a description of existing structures, buildings, and other fixed improvements located on surrounding properties.*

Once completed, the notification package (form, plans, and narrative) may be e-mailed (as pdf) to Stormwaterlessthan1@dhec.sc.gov for electronic processing by the Bureau of Water. **A notice of receipt will be e-mailed to the applicant upon successful receipt of the notification package. Once the notification package has been screened for completeness and applicability, a letter requesting additional information or an approval letter will be e-mailed to the project owner/operator at the e-mail address provided on the notification form.** If electronic submittal is not possible or desired, Less Than One Acre notifications may be mailed to SCDHEC - Bureau of Water, Stormwater Permitting Section, 2600 Bull Street, Columbia, S.C. 29201

Ros, Ian

From: StormWaterLessThan1 <Stormwaterlessthan1@dhec.sc.gov>
Sent: Wednesday, March 9, 2022 2:06 PM
To: Brett Hopper
Subject: Automatic reply: 4334 Main Highway Bamberg, SC 29003 Land Disturbance Permit

We are in receipt of your **Non-Coastal Stormwater Less than One-Acre (LTOA) Notification**.

Please allow this email to serve as confirmation of the Department's receipt of the notification form. Via submittal of this form, you have complied with your obligation for notification under the S.C. Stormwater Management Regulations and your notification has been placed on file with the Department (SCDHEC).

If you are certain your site meets all LTOA program requirements, you may proceed with construction activities identified in the notification submitted to the Department. Please note that ONLY construction activities identified in your notification may be performed at your site. The operator of the activity is responsible for compliance with the plan and assuring no sediment is discharged off-site or to Waters of the State. The operator is also responsible for obtaining any additional approvals that may be necessary for the planned activity.

Please be aware, the Department may conduct periodic inspections of your project/site and failure to meet all applicable requirements, as defined by the Department or the respective MS4, or failure to comply resulting in discharge of sediment to Waters of the State and/or adjacent properties may subject you to applicable penalties under the S. C. Pollution Control Act.

If you are not certain your site meets all LTOA program requirements or if you have additional questions, do not proceed with construction activities. Please review the information on the following links and contact the Department or, if applicable, the respective MS4.

<http://www.scdhec.gov/Environment/WaterQuality/Stormwater/WherettoApply/>

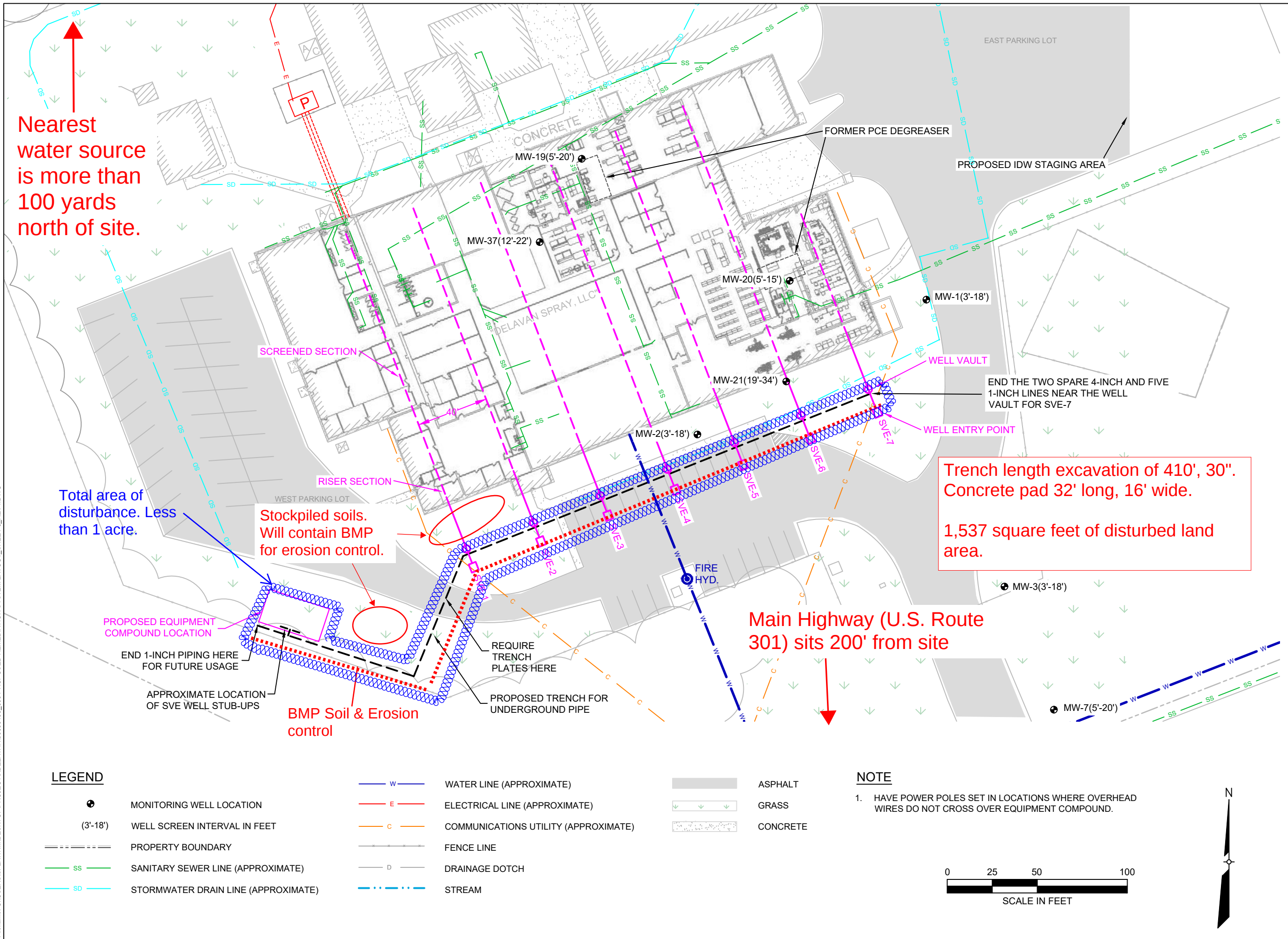
<http://www.scdhec.gov/environment/WaterQuality/Stormwater/lessthan1acre/>

<http://www.scdhec.gov/Environment/docs/nonCoastal-LT1A.pdf>

If you have further questions, please call 803-898-4300 and ask for Stormwater Permitting.

Sincerely,

The Division of Dam Safety and Stormwater Permitting



**ATTACHMENT 3
SVE SCREEN DESIGN CALCULATIONS**

Attachment 3
SVE Well Screen Design Calculations
Construction Completion Report - SVE System
Delavan Spray Technologies Site

Assumptions

Slot orientation is perpendicular to pipe.
Single slot length extends 1/5th circumference of pipe.
Pipe size = **4 in.**
Nominal outer diameter, **OD** = **4.5 in.**
Number of slotted rows, **N_{rows}** = **3**
Slot width, **W_{slot}** = **0.02 in.**
Open area percentage, **A_{open}%** = **0.2 %**

Calculations

Single slot length, **L_{slot}** = $\pi \times \text{OD} \times \text{slot length to circumference fraction}$
Single slot length, **L_{slot}** = **2.83 in.**

Row spacing, **SPACE_{row}** = $(\pi \times \text{OD} - L_{\text{slot}} \times N_{\text{rows}}) / N_{\text{rows}}$
Row spacing, **SPACE_{row}** = **1.88 in.**

Surface area per foot of pipe, **A_{surf}** = $\pi \times \text{OD} \times 12 \text{ in. per foot}$
Surface area per foot of pipe, **A_{surf}** = **169.65 sq. in.**

Open area, **A_{open}** = $A_{\text{surf}} \times A_{\text{open}}\% / 100$
Open area, **A_{open}** = **0.34 sq. in.**

Single slot area, **A_{slot}** = $W_{\text{slot}} \times L_{\text{slot}}$
Single slot area, **A_{slot}** = **0.0565 sq. in.**

3 row slot area, **A_{ring}** = $A_{\text{slot}} \times N_{\text{rows}}$
3 row slot area, **A_{ring}** = **0.1696 sq. in.**

3 row slots per foot of pipe, **N_{rings}** = $A_{\text{open}} / A_{\text{ring}}$
3 row slots per foot of pipe, **N_{rings}** = **2**

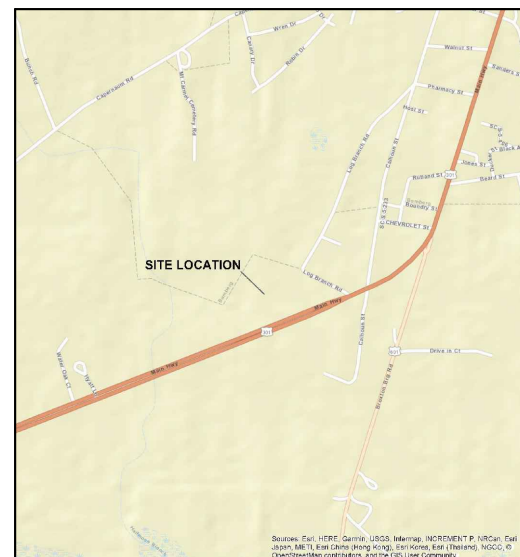
Slot spacing per foot of pipe, **SPACE_{slot}** = $(12 \text{ in. per foot} - N_{\text{rings}} \times W_{\text{slot}}) / N_{\text{rings}}$
Slot spacing per foot of pipe, **SPACE_{slot}** = **5.98 in.**

Notes

in. = inch
sq. = square

**ATTACHMENT 4
AS-BUILT DRAWINGS**

4334 MAIN HIGHWAY
BAMBERG, SOUTH CAROLINA 29003
PARCEL NUMBER: 0072-08-01-001



SITE LOCATION
NOT TO SCALE

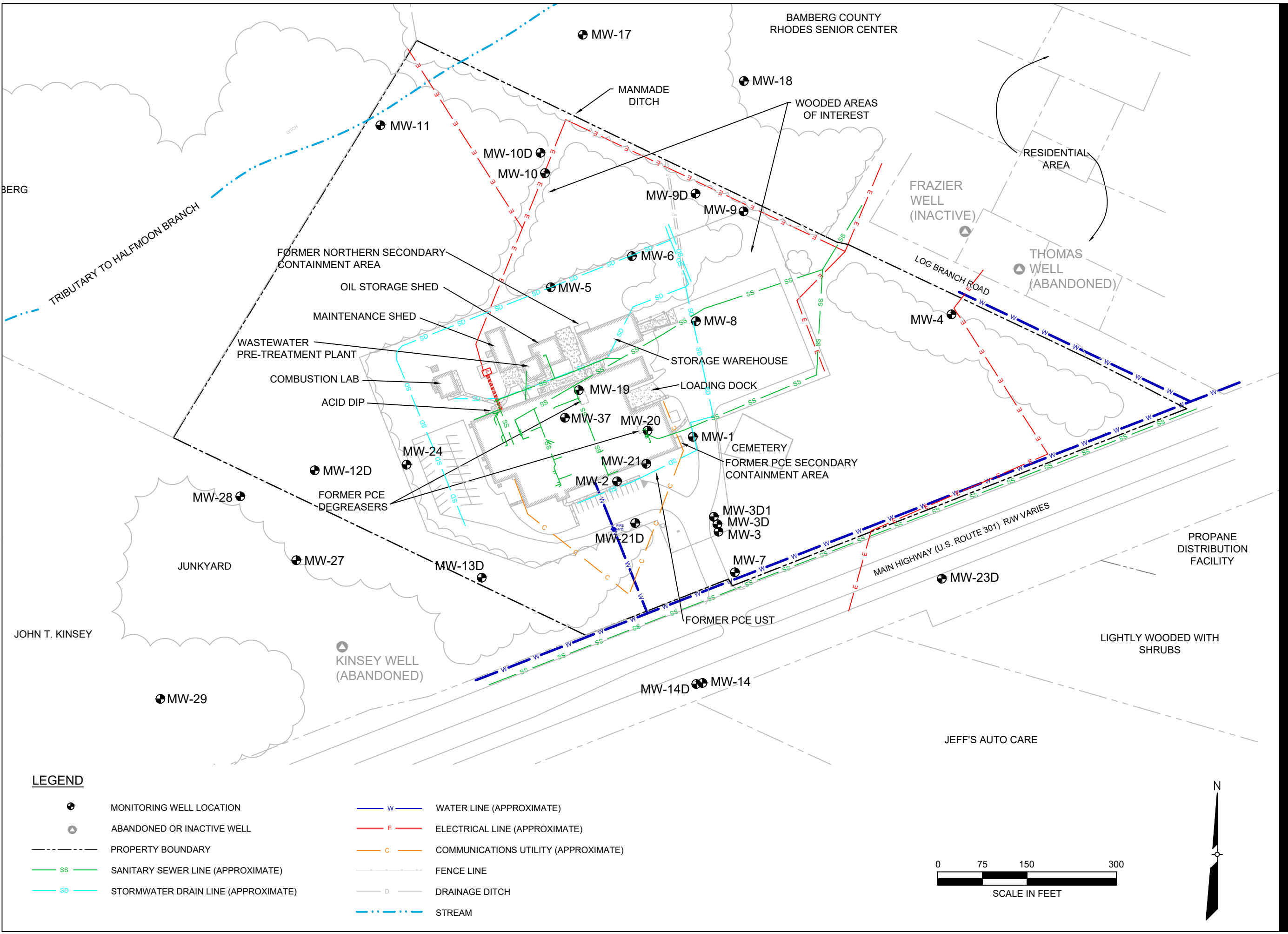


SITE MAP
NOT TO SCALE

SHEET	SHEET TITLE	REVISION
1	COVER SHEET	0
2	SITE LAYOUT MAP	0
3	REMEDIATION SYSTEM LAYOUT	0
4	HORIZONTAL WELL CONSTRUCTION DETAIL	0
5	TRENCH DETAIL	0
6	WELL VAULT AND PIPE STUB-UP DETAILS	0
7	EQUIPMENT COMPOUND DETAIL	0
8	PROCESS AND INSTRUMENTATION DIAGRAM	0

Approved: JZ
Checked: IR
Designer: ID
Project Management Initials:

File name: Z:\PALEIGH-USRA\3\DCS\PROJECTS\B\AECOM\GEOMATICS\CAD\PROJECTS\ID\DELAN TECHNOLOGIES\60650133_011 SITE LAYOUT MAP_SHEET 2_JULY2022.DWG



PROJECT
AS-BUILT DRAWINGS

4334 Main Highway
Bamberg, South Carolina 29003

PREPARED FOR
Delavan Technologies

PREPARED BY
AECOM Technical Services, Inc.
5438 Wade Park Blvd, Suite 200
Raleigh, NC 27607
919.461.100 tel 919.461.1235 fax
www.aecom.com

REGISTRATION
Jasen Zinna, P.E.
License # 31786

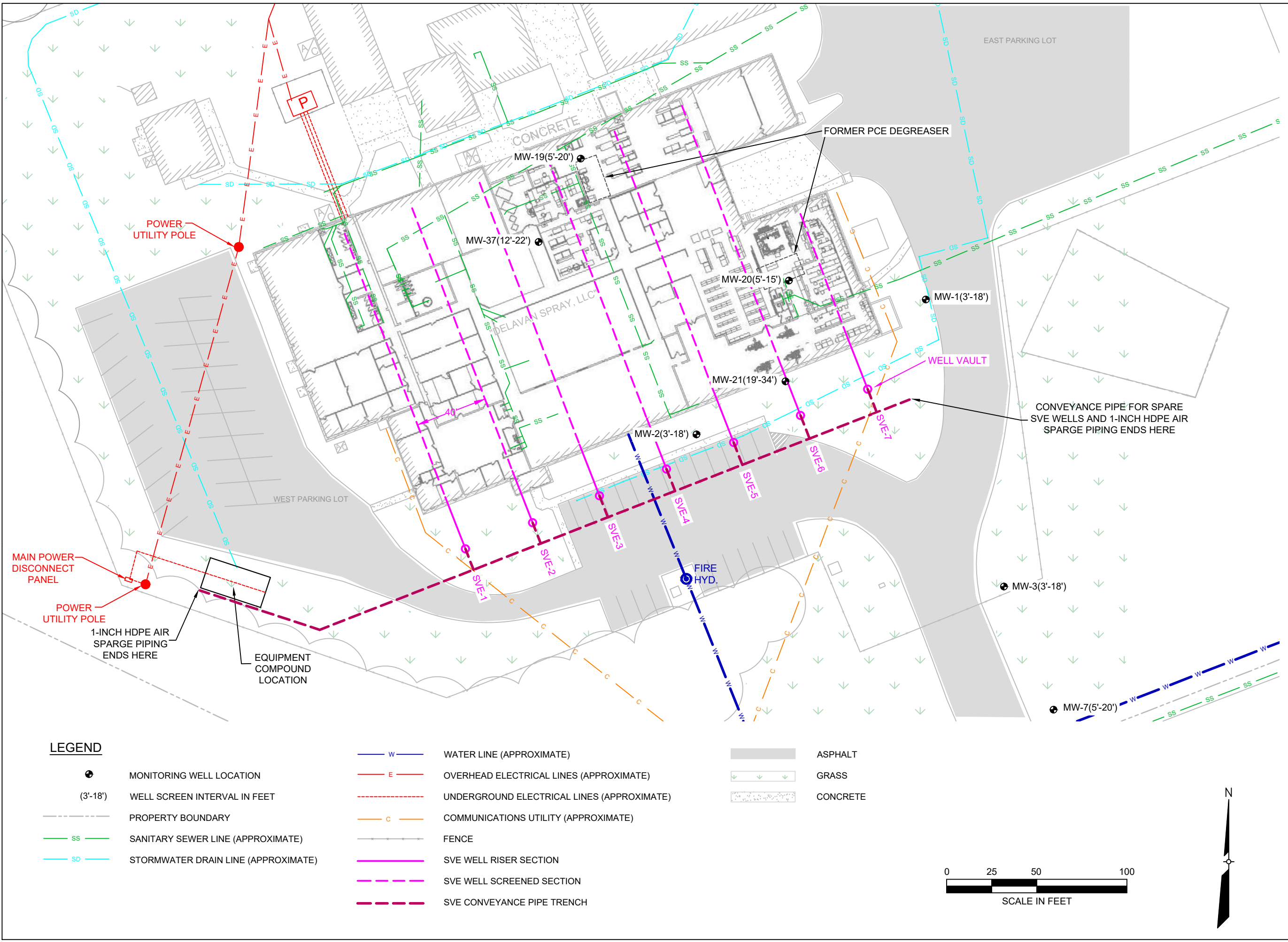
DATE
JULY 2022

PROJECT NUMBER
60675502

SHEET TITLE
SITE LAYOUT MAP

SHEET NUMBER
2

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Project Management Initials: Designer: ID Checked: IR Approved: Z



AECOM
PROJECT
AS-BUILT DRAWINGS

4334 Main Highway
Bamberg, South Carolina 29003

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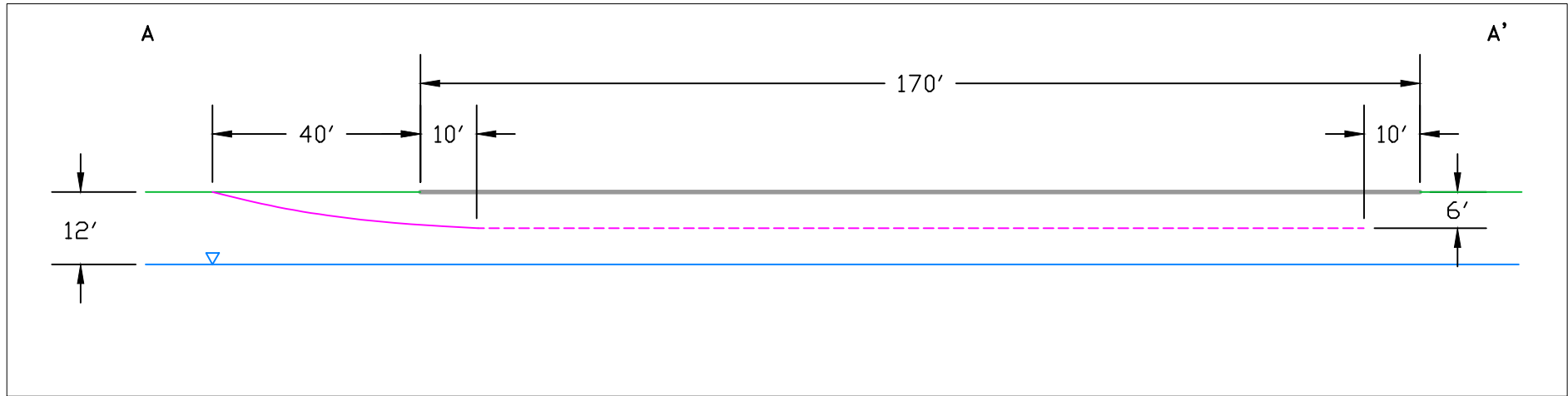
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JULY 2022

PROJECT NUMBER
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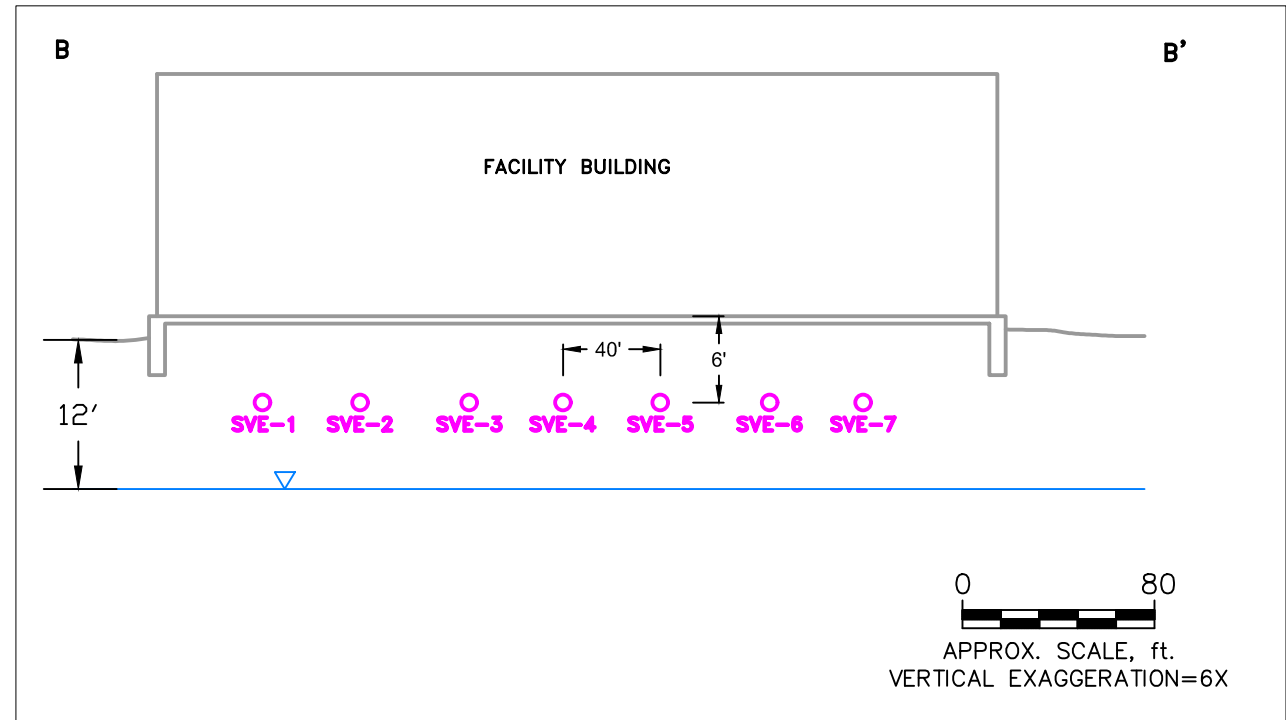
SHEET TITLE
REMEDATION SYSTEM LAYOUT

SHEET NUMBER
3

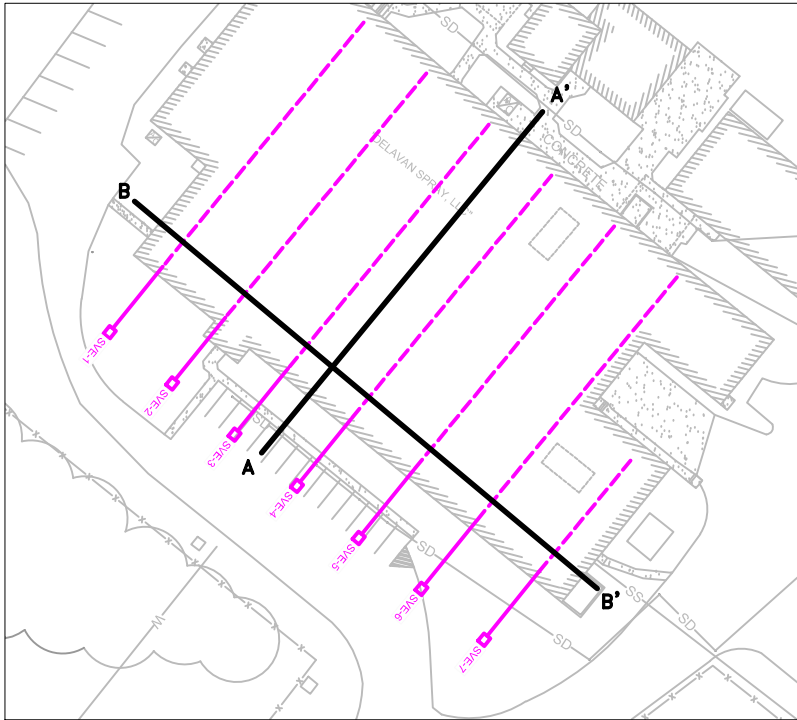
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Project Management Initials: Designer: ID Checked: IR Approved: Z



CROSS-SECTION A-A'
N.T.S.



CROSS-SECTION B-B'



CROSS-SECTION LOCATION MAP

NOTES:

1. THE A-A' BOREPATHS PROVIDE THE CONCEPTUAL PATHS FOR THE HORIZONTAL SVE WELLS INSTALLED AT THE SITE AND ARE NOT TO SCALE (N.T.S.).
2. CROSS-SECTIONS A-A' AND B-B' PROVIDE APPROXIMATE LOCATIONS OF THE HORIZONTAL SVE WELLS AT THE SITE.
3. APPROXIMATE WATER TABLE DEPTH IS BASED ON AVERAGE HISTORIC MONITORING WELL WATER LEVELS COLLECTED AT THE SITE.

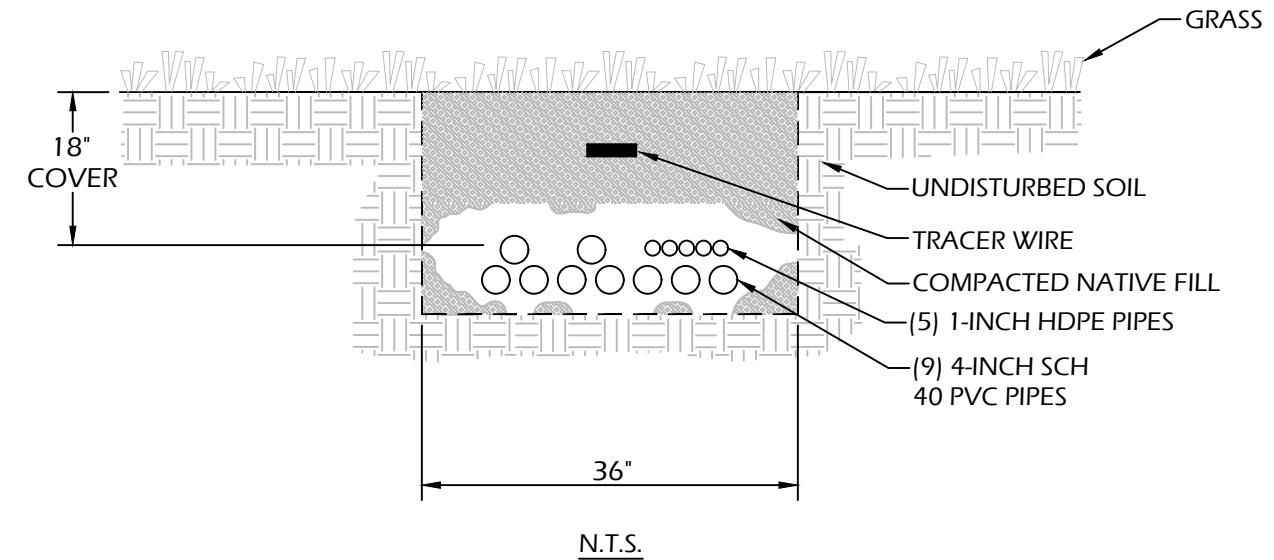
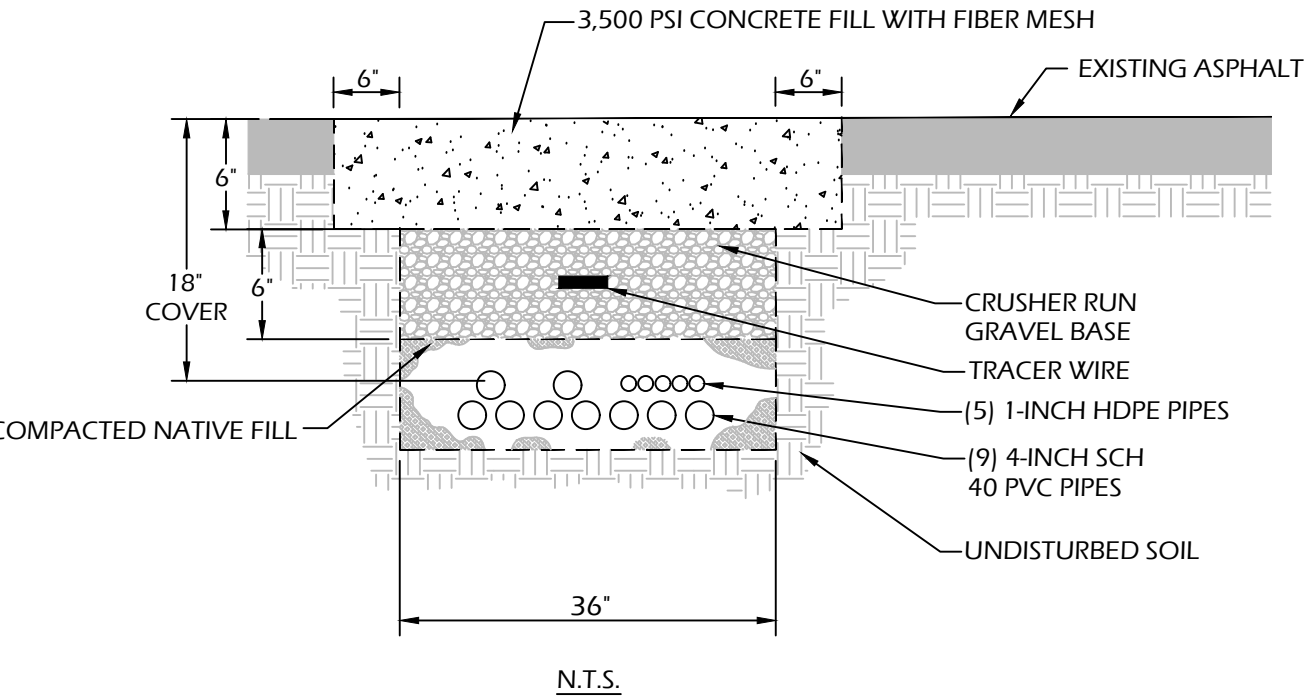
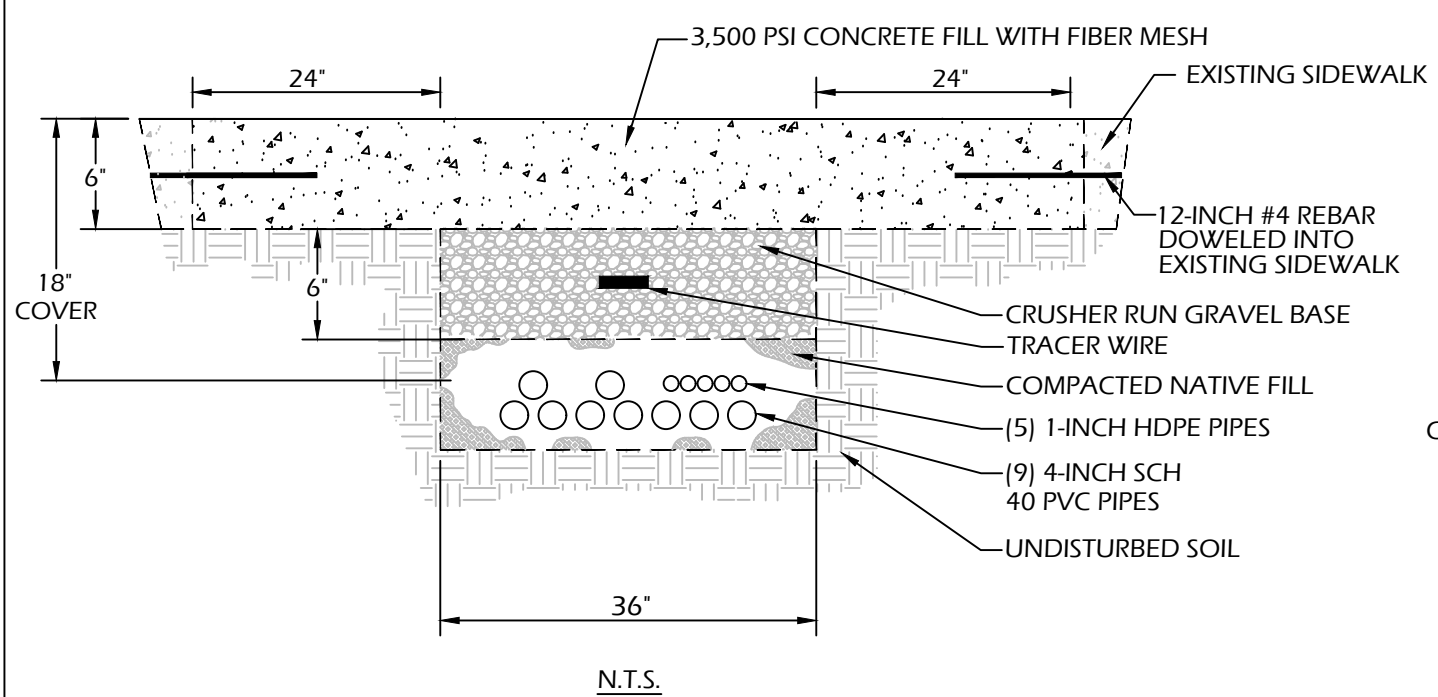
LEGEND

- APPROXIMATE WATER TABLE
- FACILITY BUILDING CONCRETE SLAB
- GROUND SURFACE
- HORIZONTAL WELL RISER PIPE
- HORIZONTAL WELL SCREEN

SVE Well ID	Well Material	Well Diameter (in)	Screen Slot Size (in)	Screen Open Area (%)	Average Screen Depth (ft bgs)	Entry Angle (degrees from horizontal)	Screen Length (ft)	Riser Length (ft)	Total Well Length (ft)
SVE-1	SCH 80 PVC	4	0.020	0.2	5.88	-17.5	150	50	200
SVE-2	SCH 80 PVC	4	0.020	0.2	5.99	-17.5	150	50	200
SVE-3	SCH 80 PVC	4	0.020	0.2	6.04	-17	150	50	200
SVE-4	SCH 80 PVC	4	0.020	0.2	6.36	-17.5	150	54	204
SVE-5	SCH 80 PVC	4	0.020	0.2	7.34	-17.6	150	55	205
SVE-6	SCH 80 PVC	4	0.020	0.2	6.23	-16.5	150	50	200
SVE-7	SCH 80 PVC	4	0.020	0.2	5.91	-15	70	50	120
Total							970	359	1,329

WELL LENGTHS AND CONSTRUCTION SUMMARY

File: Z:\PA\LEIGH-USRA\3\DCS\PROJECTS\BIL-AECOM\GEOMATICS\CAD\PROJECTS\DETAILS\014 TRENCH DETAILS SHEET 5_JULY 2022.DWG
Project Management Initials: Designer: ID Checked: IR Approved: JZ



NOTE:

- NUMBER OF PIPES IN TRENCH VARY BY LOCATION.

AECOM
PROJECT
AS-BUILT DRAWINGS

4334 Main Highway
Bamberg, South Carolina 29003

PREPARED FOR
Delavan Technologies

PREPARED BY
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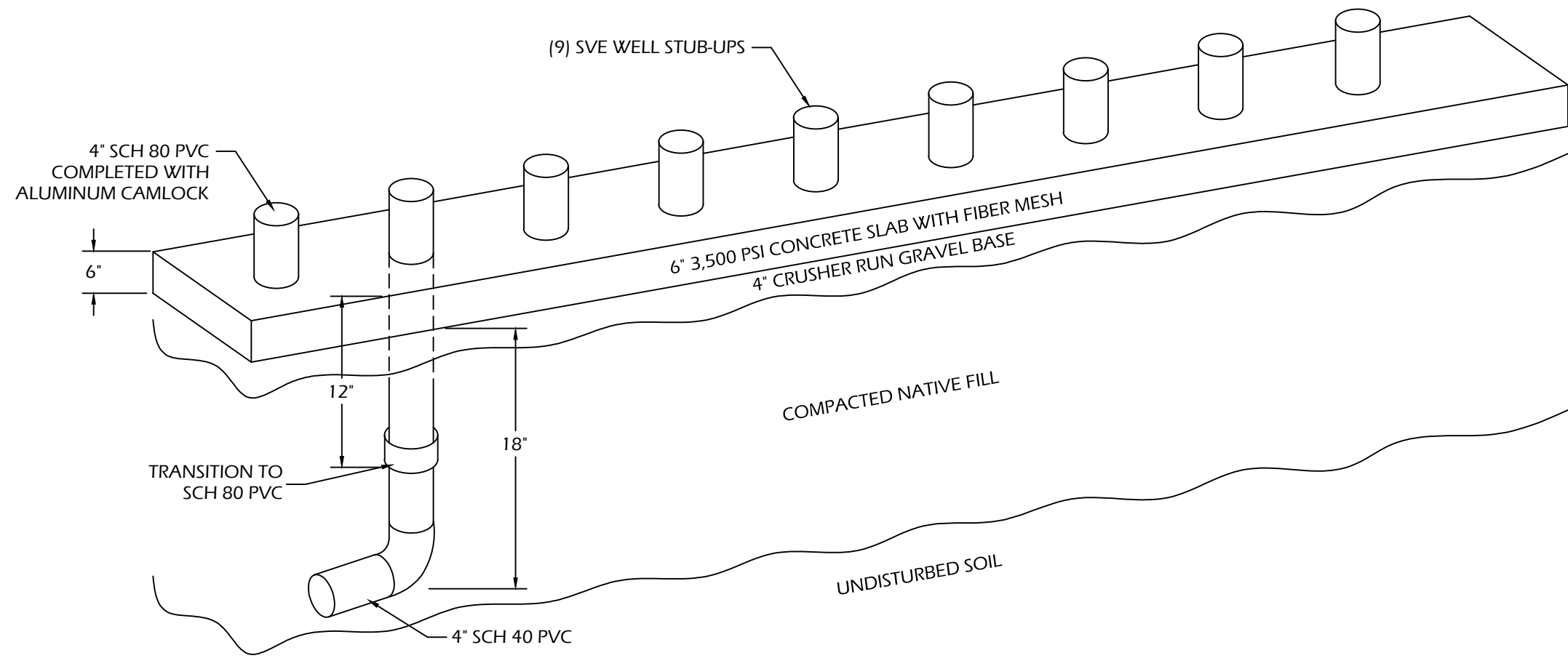
DATE
JULY 2022

PROJECT NUMBER
60675502

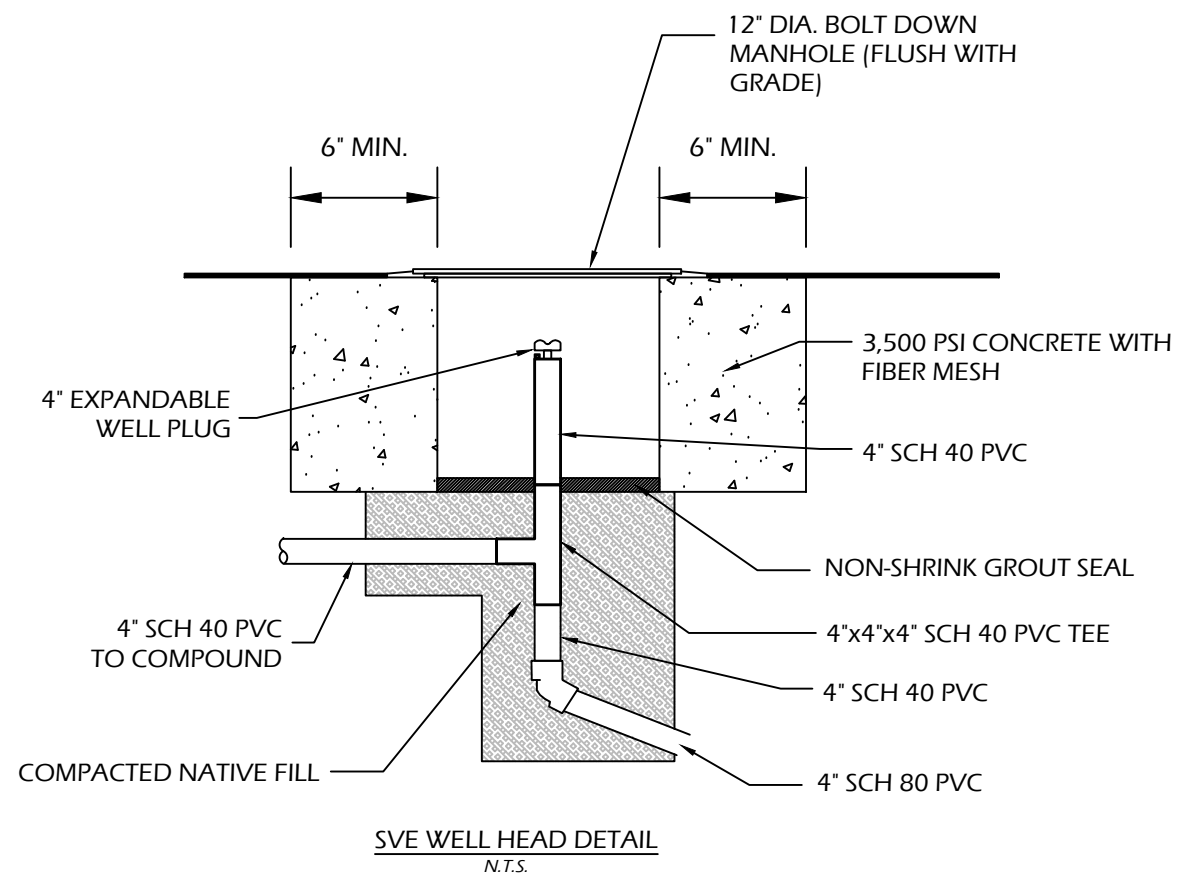
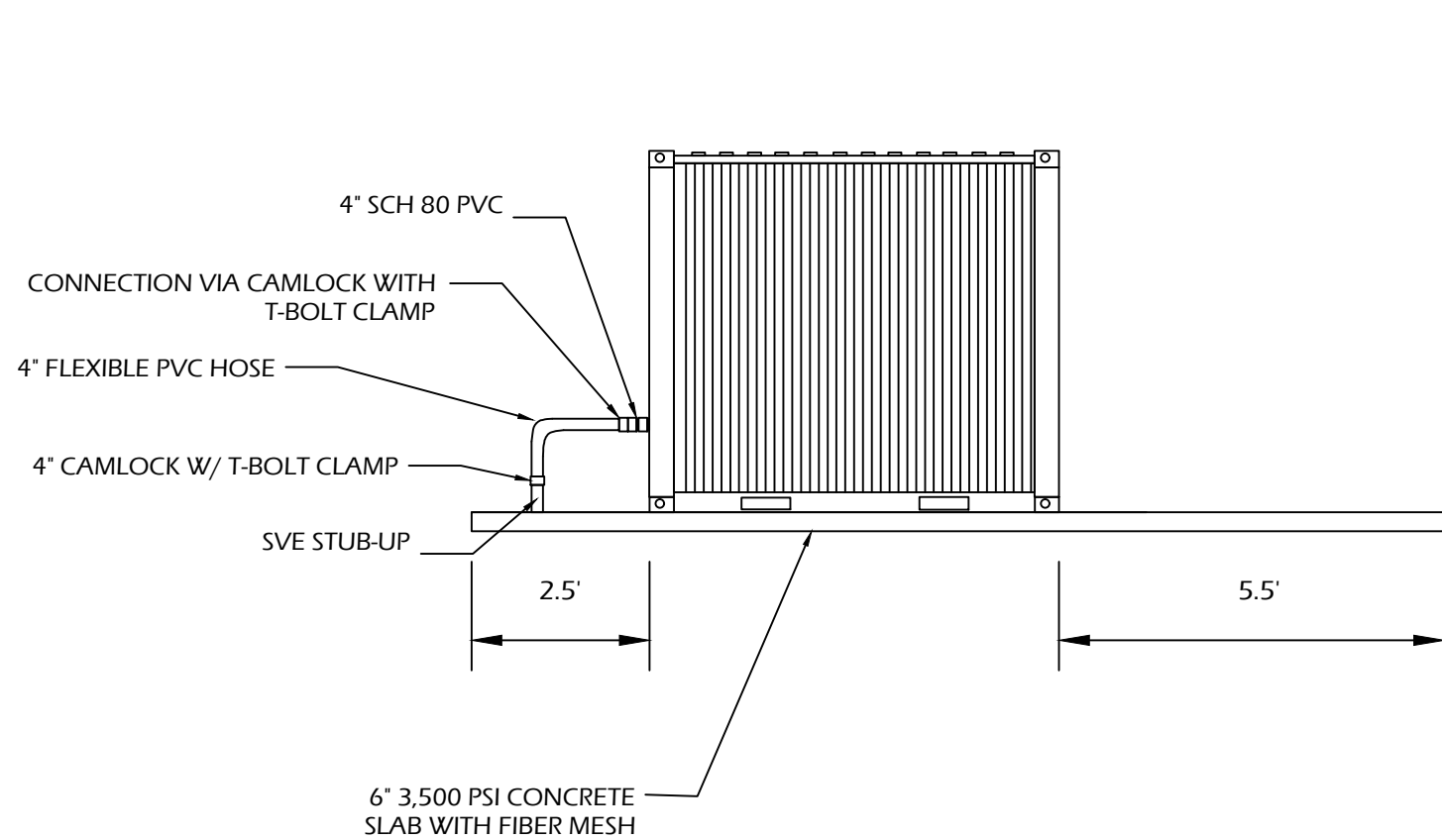
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TRENCH DETAILS

SHEET NUMBER
5

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Project Management Initials: Designer: ID Checked: IR Approved: JZ

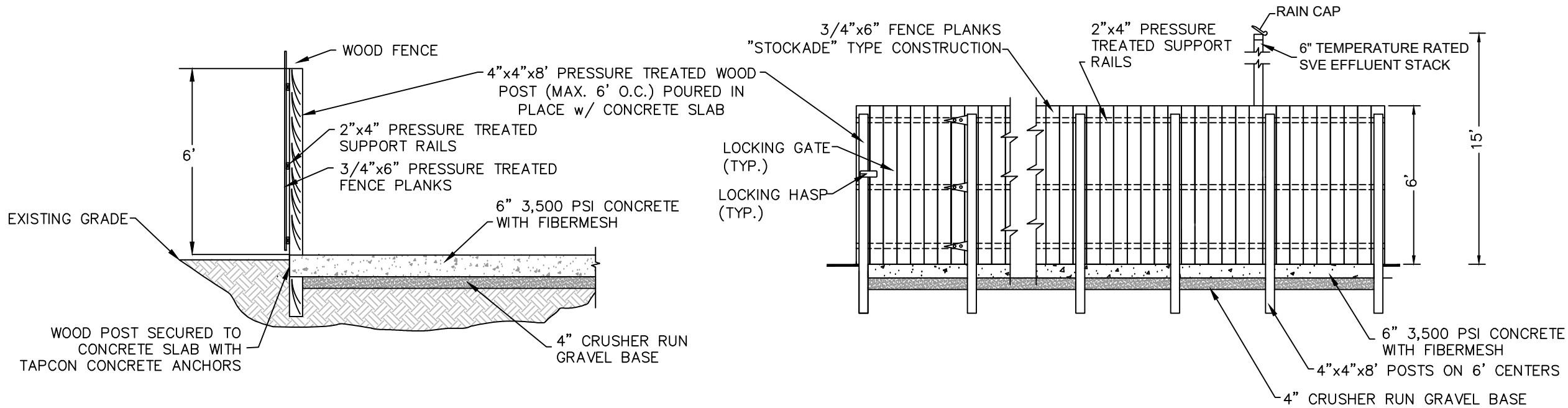


PIPE STUB-UP DETAILS
N.T.S.

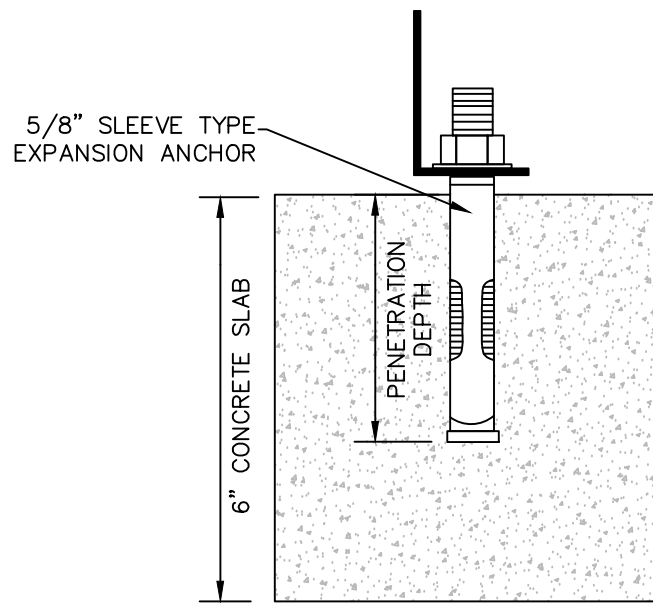


SVE WELL HEAD DETAIL
N.T.S.

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Project Management Initials: Designer: ID Checked: IR Approved: Z

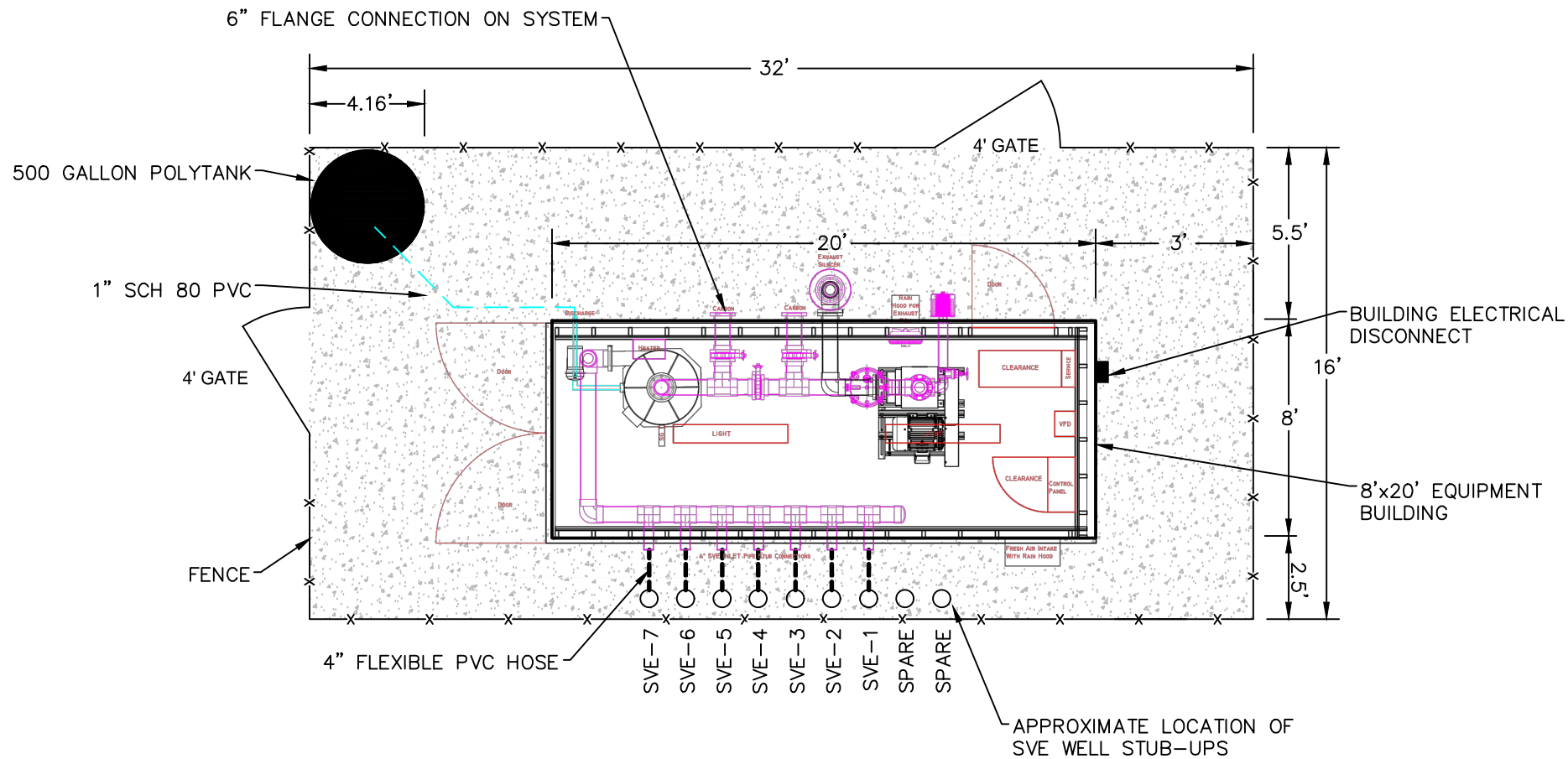


WOOD FENCE AND CONCRETE SLAB DETAILS
N.T.S.

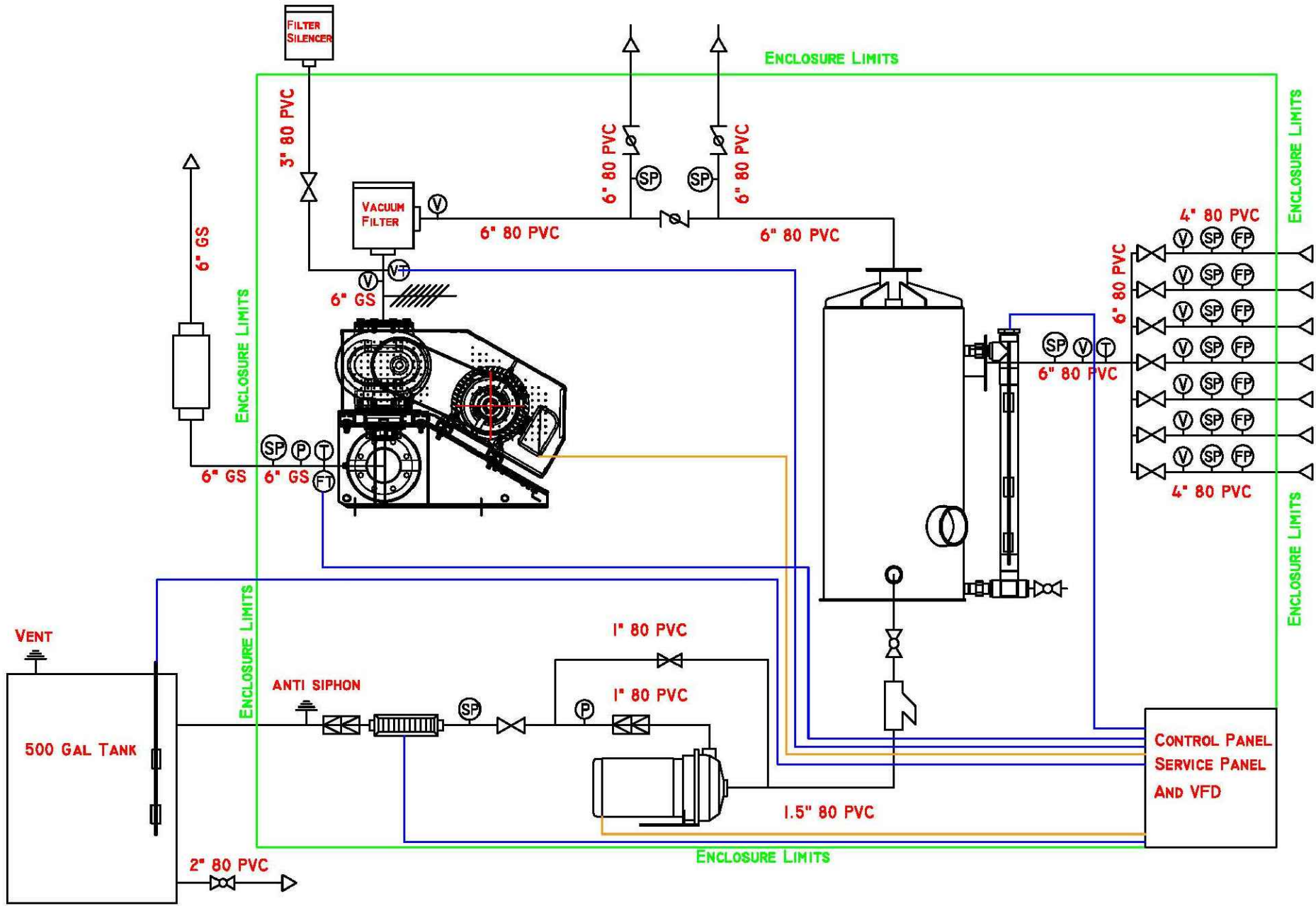


NOTE:
FOUR TIE DOWNS INSTALLED. ONE AT EACH CORNER OF BOX.

BUILDING TIE DOWN DETAIL
N.T.S.



EQUIPMENT COMPOUND DETAIL
N.T.S.



SYMBOL	DESCRIPTION
	SAMPLE PORT
	VACUUM TRANSMITTER
	VACUUM GAUGE
	FLOW PORT
	FLOW TRANSMITTER
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	RELIEF VALVE
	BUTTERFLY VALVE
	WYE STRAINER
	CHECK VALVE
	GATE VALVE
	BALL VALVE
	VACUUM FILTER
	FILTER SILENCER
	EXHAUST MUFFLER
	FLOW TOTALIZER
	TRANSFER PUMP
	REGEN BLOWER
	CLAW COMPRESSOR
	MOISTURE SEPARATOR
	SOLBERG BBF BALDOR MOTOR SUTORBILT BLOWER
	SIGNAL WIRING
	POWER WIRING

AECOM

PROJECT

AS-BUILT DRAWINGS

4334 Main Highway
Bamberg, South Carolina 29003

PREPARED FOR

Delavan Technologies

PREPARED BY

AECOM Technical Services, Inc.
5438 Wade Park Blvd, Suite 200
Raleigh, NC 27607
919.461.100 tel 919.461.1235 fax
www.aecom.com

REGISTRATION

Jasen Zinna, P.E
License # 31786

DATE

JULY 2022

PROJECT NUMBER

60675502

SHEET TITLE

PROCESS AND INSTRUMENTATION
DIAGRAM

SHEET NUMBER

8

**ATTACHMENT 5
DRILLER AS-BUILT REPORT**

Client Name: AECOM
 Job Name: Delavan Spray Technologies
 Well Name: SVE-1
 Location: Bamberg, SC
 Drill Rig: Vermeer 24x40
 Drill bit: 6 inch duckbill
 Well Screen: 4" SCH80 PVC
 Well Casing: 4" SCH80 PVC

SVE-1

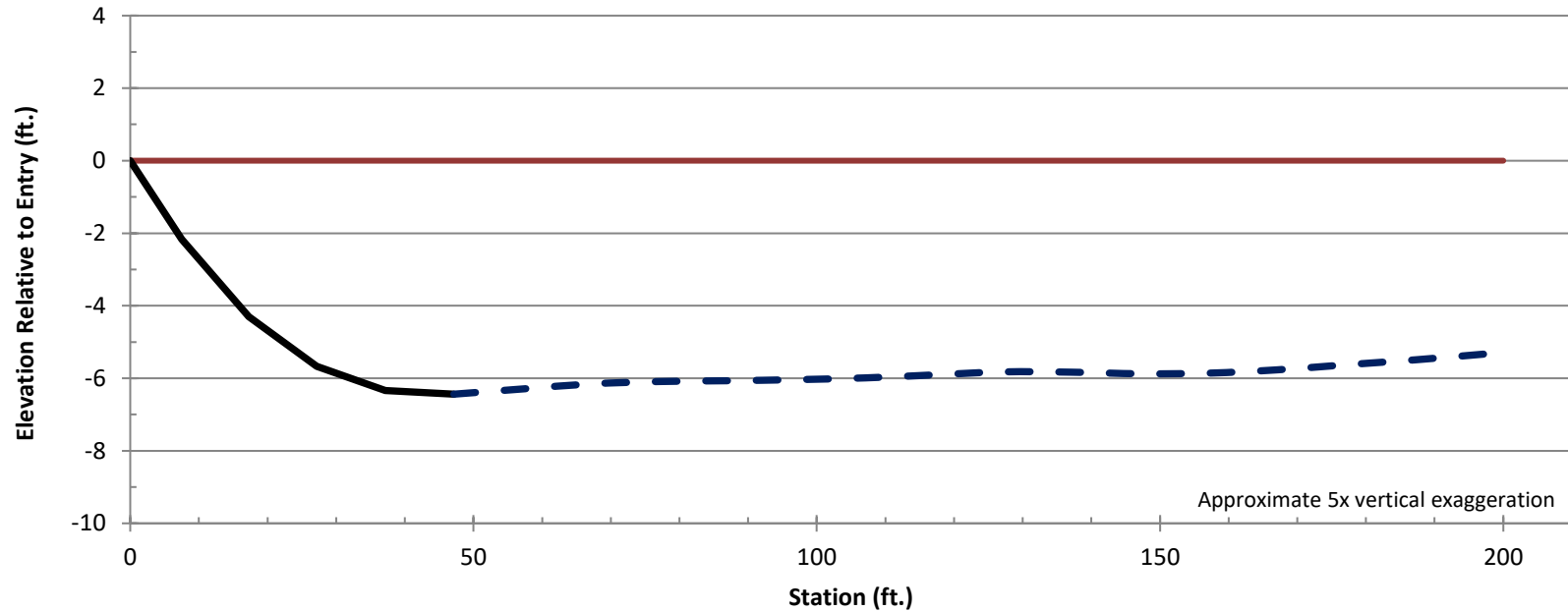


Length of Drill Rods: 10 ft
 Length of Borehole: 199 ft (Horizontal Distance)
 Length of Well: 200 ft
 Screen Length: 150 ft
 Entry Casing Length: 50 ft

Rig Entry Angle	-17.5	degrees
Elevation at Point of Entry	0	ft
Station at Point of Entry	+	station
Horz distance from Transmitter to Point of Entry	2.2	ft
Height of Transmitter above Point of Entry	0	ft

Rod	Rod Distance from Vices (ft)	Station (####)	Description	Bore Elevation (ft below entry)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	2	+		0.0	-31.5 %	-17.5	0	0.0	NA
1	10	+7		-2.2	-26.3 %	-14.8	7	2.2	163
2	20	+17		-4.3	-17.5 %	-9.9	17	4.3	118
3	30	+27		-5.7	-10.2 %	-5.8	27	5.7	140
4	40	+37		-6.3	-3.2 %	-1.9	37	6.3	145
5	50	+47	start of screen @ STA 0+49	-6.4	1.1 %	0.7	47	6.4	229
6	60	+57		-6.3	1.7 %	1.0	57	6.3	1637
7	70	+67		-6.2	1.0 %	0.6	67	6.2	1432
8	80	+77		-6.1	0.3 %	0.2	77	6.1	1273
9	90	+87		-6.1	0.2 %	0.1	87	6.1	11459
10	100	+97		-6.0	0.4 %	0.3	97	6.0	3820
11	110	1+07		-6.0	0.5 %	0.3	107	6.0	11459
12	120	1+17		-5.9	1.1 %	0.7	117	5.9	1637
13	130	1+27		-5.8	0.5 %	0.3	127	5.8	1637
14	140	1+37		-5.8	-0.7 %	-0.4	137	5.8	819
15	150	1+47		-5.9	-0.2 %	-0.1	147	5.9	1910
16	160	1+57		-5.9	0.5 %	0.3	157	5.9	1432
17	170	1+67		-5.8	1.3 %	0.8	167	5.8	1273
18	180	1+77		-5.6	1.5 %	0.9	177	5.6	5730
19	190	1+87		-5.5	1.2 %	0.7	187	5.5	3820
20	200	1+97		-5.3	1.9 %	1.1	197	5.3	1432
20.2	202	1+99	end of screen @ STA 1+99	-5.3	1.9 %	1.1	199	5.3	Infinite

SVE-1
Delavan Spray Technologies
AECOM - Bamberg, SC
Prepared by Ellingson-DTD



BORE NOTES:

1. Surface elevations assumed to be level
2. Entry riser length is 50'
3. Screen length is 150'
4. STA 0+00 corresponds to entry location
5. 4" SCH80 PVC screen, 0.020" slot width, 0.2% open area

START OF SCREEN

STA 0+49
Depth: 6.4'

END OF SCREEN

STA 1+99
Depth: 5.3'

— Assumed ground surface

— Well riser

- - Screen

Client Name: AECOM
Job Name: Delavan Spray Technologies
Well Name: SVE-2
Location: Bamberg, SC
Drill Rig: Vermeer 24x40
Drill bit: 6 inch duckbill
Well Screen: 4" SCH80 PVC
Well Casing: 4" SCH80 PVC
Length of Drill Rods: 10 ft
Length of Borehole: 200 ft (Horizontal Distance)
Length of Well: 200 ft
Screen Length: 150 ft
Entry Casing Length: 50 ft

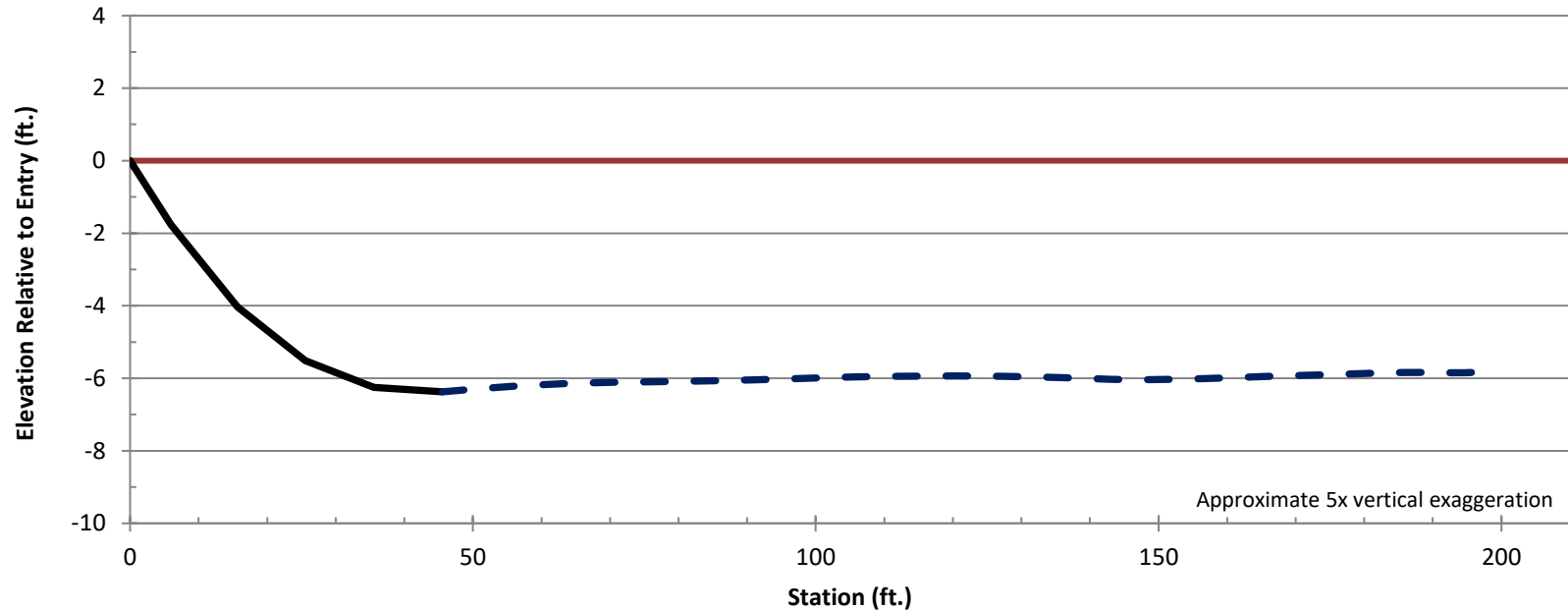
SVE-2



Rig Entry Angle	-17.5	degrees
Elevation at Point of Entry	0	ft
Station at Point of Entry	+	station
Horz distance from Transmitter to Point of Entry	3.8	ft
Height of Transmitter above Point of Entry	0	ft

Rod	Rod Distance from Vices (ft)	Station (####)	Description	Bore Elevation (ft below entry)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	4	+		0.0	-31.5 %	-17.5	0	0.0	NA
1	10	+6		-1.8	-27.7 %	-15.5	6	1.8	178
2	20	+16		-4.0	-19.0 %	-10.8	16	4.0	121
3	30	+26		-5.5	-11.0 %	-6.3	26	5.5	129
4	40	+36		-6.3	-3.8 %	-2.2	36	6.3	140
5	50	+46	start of screen @ STA 0+50	-6.4	1.5 %	0.9	46	6.4	188
6	60	+56		-6.2	1.5 %	0.9	56	6.2	Infinite
7	70	+66		-6.1	0.3 %	0.2	66	6.1	881
8	80	+76		-6.1	0.3 %	0.2	76	6.1	Infinite
9	90	+86		-6.1	0.3 %	0.2	86	6.1	11459
10	100	+96		-6.0	0.7 %	0.4	96	6.0	2292
11	110	1+06		-6.0	0.4 %	0.3	106	6.0	3820
12	120	1+16		-5.9	0.0 %	0.0	116	5.9	2292
13	130	1+26		-5.9	0.0 %	0.0	126	5.9	Infinite
14	140	1+36		-6.0	-0.8 %	-0.5	136	6.0	1273
15	150	1+46		-6.0	-0.3 %	-0.2	146	6.0	2292
16	160	1+56		-6.0	0.8 %	0.5	156	6.0	881
17	170	1+66		-5.9	0.5 %	0.3	166	5.9	3820
18	180	1+76		-5.9	0.5 %	0.3	176	5.9	Infinite
19	190	1+86		-5.8	0.6 %	0.4	186	5.8	11459
20	200	1+96		-5.8	-0.6 %	-0.4	196	5.8	819
20.4	204	2+00	end of screen @ STA 2+00	-5.7	7.2 %	4.1	200	5.7	51

SVE-2
Delavan Spray Technologies
AECOM - Bamberg, SC
Prepared by Ellingson-DTD



BORE NOTES:

1. Surface elevations assumed to be level
2. Entry riser length is 50'
3. Screen length is 150'
4. STA 0+00 corresponds to entry location
5. 4" SCH80 PVC screen, 0.020" slot width, 0.2% open area

START OF SCREEN

STA 0+50
Depth: 6.4'

END OF SCREEN

STA 2+00
Depth: 5.7'

— Assumed ground surface

— Well riser

- - Screen

Client Name: AECOM
Job Name: Delavan Spray Technologies
Well Name: SVE-3
Location: Bamberg, SC
Drill Rig: Vermeer 24x40
Drill bit: 6 inch duckbill
Well Screen: 4" SCH80 PVC
Well Casing: 4" SCH80 PVC
Length of Drill Rods: 10 ft
Length of Borehole: 199 ft (Horizontal Distance)
Length of Well: 200 ft
Screen Length: 150 ft
Entry Casing Length: 50 ft

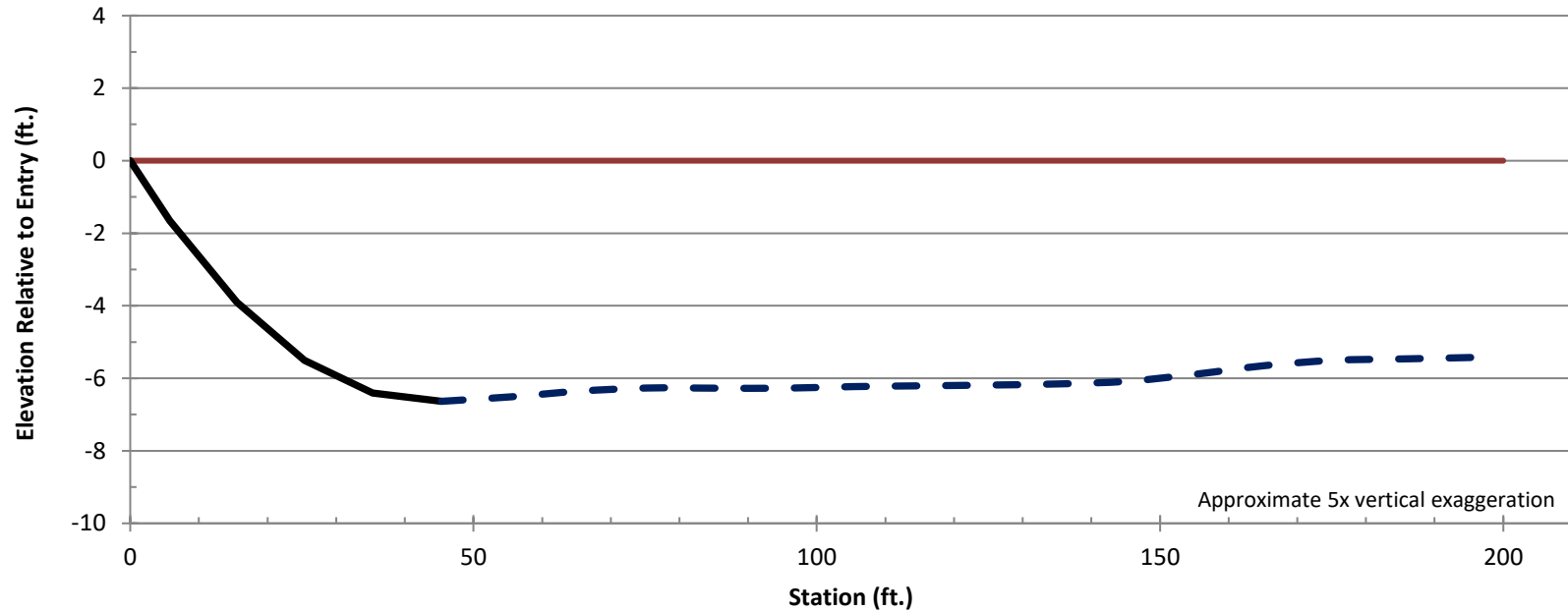
SVE-3



Rig Entry Angle	-17	degrees
Elevation at Point of Entry	0	ft
Station at Point of Entry	+	station
Horz distance from Transmitter to Point of Entry	4	ft
Height of Transmitter above Point of Entry	0	ft

Rod	Rod Distance from Vices (ft)	Station (####)	Description	Bore Elevation (ft below entry)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	4	+		0.0	-30.6 %	-17.0	0	0.0	NA
1	10	+6		-1.7	-26.8 %	-15.0	6	1.7	172
2	20	+16		-3.9	-19.4 %	-11.0	16	3.9	143
3	30	+25		-5.5	-13.0 %	-7.4	25	5.5	159
4	40	+35		-6.4	-5.2 %	-3.0	35	6.4	130
5	50	+45	start of screen @ STA 0+49	-6.6	0.7 %	0.4	45	6.6	169
6	60	+55		-6.5	1.7 %	1.0	55	6.5	955
7	70	+65		-6.4	1.4 %	0.8	65	6.4	2865
8	80	+75		-6.3	0.3 %	0.2	75	6.3	955
9	90	+85		-6.3	-0.4 %	-0.3	85	6.3	1273
10	100	+95		-6.3	0.4 %	0.3	95	6.3	1146
11	110	1+05		-6.2	0.4 %	0.3	105	6.2	Infinite
12	120	1+15		-6.2	0.0 %	0.0	115	6.2	2292
13	130	1+25		-6.2	0.4 %	0.3	125	6.2	2292
14	140	1+35		-6.2	0.2 %	0.1	135	6.2	3820
15	150	1+45		-6.1	1.3 %	0.8	145	6.1	881
16	160	1+55		-5.9	2.6 %	1.5	155	5.9	764
17	170	1+65		-5.6	2.1 %	1.2	165	5.6	1910
18	180	1+75		-5.5	0.8 %	0.5	175	5.5	764
19	190	1+85		-5.5	0.0 %	0.0	185	5.5	1273
20	200	1+95		-5.4	0.8 %	0.5	195	5.4	1273
20.4	204	1+99	end of screen @ STA 1+99	-5.4	0.8 %	0.5	199	5.4	Infinite

SVE-3
Delavan Spray Technologies
AECOM - Bamberg, SC
Prepared by Ellingson-DTD



BORE NOTES:

1. Surface elevations assumed to be level
2. Entry riser length is 50'
3. Screen length is 150'
4. STA 0+00 corresponds to entry location
5. 4" SCH80 PVC screen, 0.020" slot width, 0.2% open area

START OF SCREEN

STA 0+49
Depth: 6.6'

END OF SCREEN

STA 1+99
Depth: 5.4'

— Assumed ground surface

— Well riser

- - - Screen

Client Name: AECOM
Job Name: Delavan Spray Technologies
Well Name: SVE-4
Location: Bamberg, SC
Drill Rig: Vermeer 24x40
Drill bit: 6 inch duckbill
Well Screen: 4" SCH80 PVC
Well Casing: 4" SCH80 PVC
Length of Drill Rods: 10 ft
Length of Borehole: 204 ft (Horizontal Distance)
Length of Well: 204 ft
Screen Length: 150 ft
Entry Casing Length: 54 ft

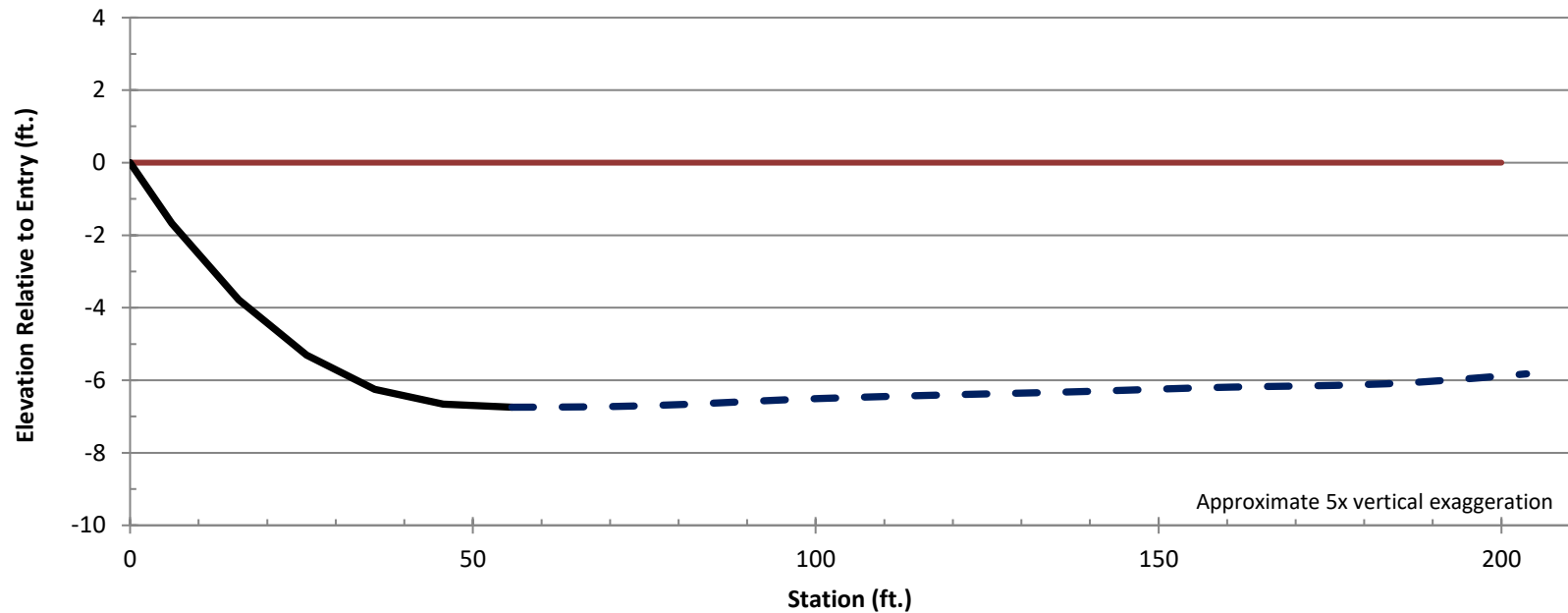
SVE-4



Rig Entry Angle	-17.5	degrees
Elevation at Point of Entry	0	ft
Station at Point of Entry	+	station
Horz distance from Transmitter to Point of Entry	3.7	ft
Height of Transmitter above Point of Entry	0	ft

Rod	Rod Distance from Vices (ft)	Station (####)	Description	Bore Elevation (ft below entry)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	4	+		0.0	-30.1 %	-16.8	0	0.0	NA
1	10	+6		-1.7	-24.9 %	-14.0	6	1.7	131
2	20	+16		-3.8	-18.4 %	-10.4	16	3.8	159
3	30	+26		-5.3	-12.5 %	-7.2	26	5.3	176
4	40	+36		-6.3	-6.4 %	-3.7	36	6.3	164
5	50	+46		-6.7	-1.7 %	-1.0	46	6.7	216
6	60	+56	start of screen @ STA 0+54	-6.7	0.0 %	0.0	56	6.7	573
7	70	+66		-6.7	0.2 %	0.1	66	6.7	5730
8	80	+76		-6.7	0.5 %	0.3	76	6.7	2865
9	90	+86		-6.6	1.0 %	0.6	86	6.6	2292
10	100	+96		-6.5	0.8 %	0.5	96	6.5	5730
11	110	1+06		-6.5	0.5 %	0.3	106	6.5	3820
12	120	1+16		-6.4	0.5 %	0.3	116	6.4	Infinite
13	130	1+26		-6.4	0.4 %	0.3	126	6.4	11459
14	140	1+36		-6.3	0.4 %	0.3	136	6.3	Infinite
15	150	1+46		-6.3	0.7 %	0.4	146	6.3	3820
16	160	1+56		-6.2	0.5 %	0.3	156	6.2	5730
17	170	1+66		-6.2	0.3 %	0.2	166	6.2	3820
18	180	1+76		-6.1	0.3 %	0.2	176	6.1	11459
19	190	1+86		-6.1	1.0 %	0.6	186	6.1	1637
20	200	1+96		-5.9	1.6 %	0.9	196	5.9	1637
20.8	208	2+04	end of screen @ STA 2+04	-5.8	1.6 %	0.9	204	5.8	Infinite

SVE-4
Delavan Spray Technologies
AECOM - Bamberg, SC
Prepared by Ellingson-DTD



BORE NOTES:

1. Surface elevations assumed to be level
2. Entry riser length is 54'
3. Screen length is 150'
4. STA 0+00 corresponds to entry location
5. 4" SCH80 PVC screen, 0.020" slot width, 0.2% open area

START OF SCREEN

STA 0+54
Depth: 6.7'

END OF SCREEN

STA 2+04
Depth: 5.8'

— Assumed ground surface

— Well riser

- - - Screen

Client Name: AECOM
 Job Name: Delavan Spray Technologies
 Well Name: SVE-5
 Location: Bamberg, SC
 Drill Rig: Vermeer 24x40
 Drill bit: 6 inch duckbill
 Well Screen: 4" SCH80 PVC
 Well Casing: 4" SCH80 PVC

SVE-5

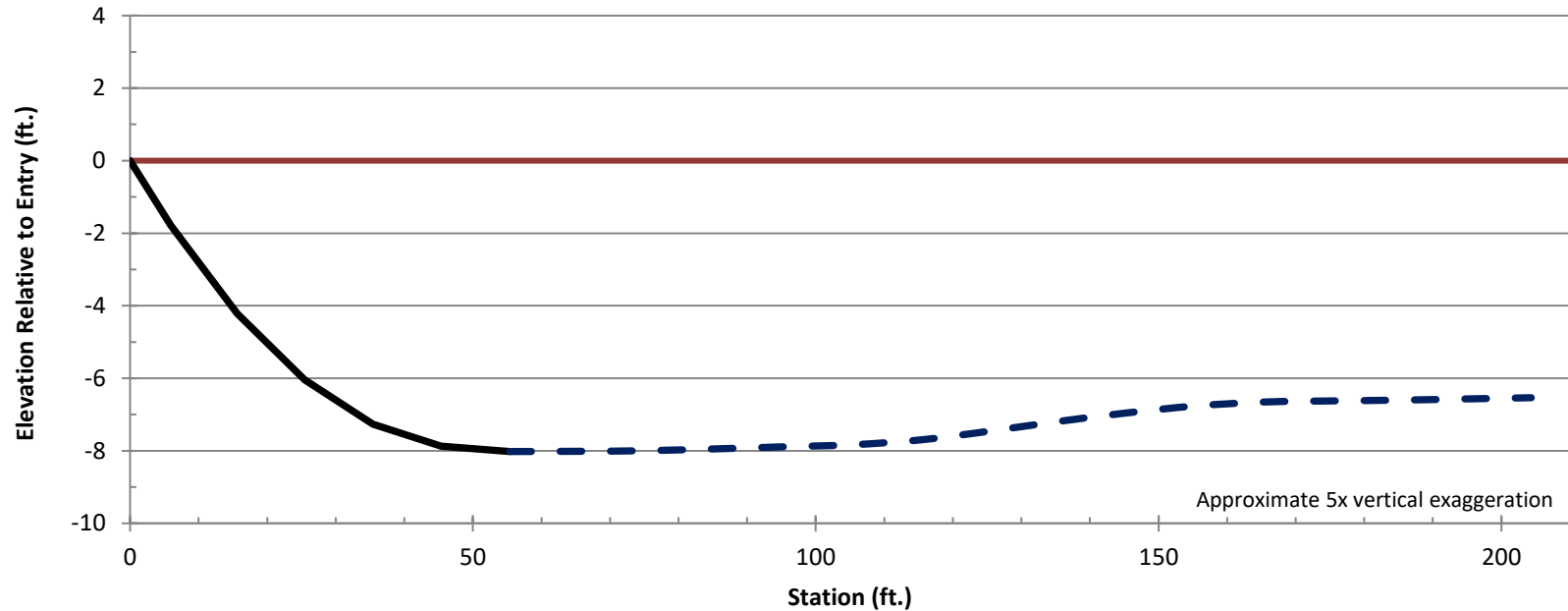


Length of Drill Rods: 10 ft
 Length of Borehole: 204 ft (Horizontal Distance)
 Length of Well: 205 ft
 Screen Length: 150 ft
 Entry Casing Length: 55 ft

Rig Entry Angle: -17.6 degrees
 Elevation at Point of Entry: 0 ft
 Station at Point of Entry: + station
 Horiz distance from Transmitter to Point of Entry: 3.8 ft
 Height of Transmitter above Point of Entry: 0 ft

Rod	Rod Distance from Vices (ft)	Station (####)	Description	Bore Elevation (ft below entry)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	4	+		0.0	-31.7 %	-17.6	0	0.0	NA
1	10	+6		-1.8	-28.4 %	-15.9	6	1.8	203
2	20	+16		-4.2	-21.8 %	-12.3	16	4.2	161
3	30	+25		-6.0	-15.4 %	-8.8	25	6.0	161
4	40	+35		-7.3	-9.2 %	-5.3	35	7.3	164
5	50	+45		-7.9	-3.1 %	-1.8	45	7.9	164
6	60	+55	start of screen @ STA 0+54	-8.0	0.1 %	0.1	55	8.0	318
7	70	+65		-8.0	0.0 %	0.0	65	8.0	22918
8	80	+75		-8.0	0.3 %	0.2	75	8.0	3820
9	90	+85		-7.9	0.7 %	0.4	85	7.9	2546
10	100	+95		-7.9	0.4 %	0.3	95	7.9	3820
11	110	1+05		-7.8	0.7 %	0.4	105	7.8	3820
12	120	1+15		-7.7	2.0 %	1.2	115	7.7	764
13	130	1+25		-7.5	2.8 %	1.6	125	7.5	1273
14	140	1+35		-7.2	2.5 %	1.5	135	7.2	3820
15	150	1+45		-7.0	2.2 %	1.3	145	7.0	2865
16	160	1+55		-6.8	1.7 %	1.0	155	6.8	1910
17	170	1+65		-6.7	0.5 %	0.3	165	6.7	881
18	180	1+75		-6.6	0.1 %	0.1	175	6.6	2292
19	190	1+85		-6.6	0.3 %	0.2	185	6.6	3820
20	200	1+95		-6.6	0.3 %	0.2	195	6.6	Infinite
20.9	209	2+04	end of screen @ STA 2+04	-6.5	0.3 %	0.2	204	6.5	Infinite

SVE-5
Delavan Spray Technologies
AECOM - Bamberg, SC
Prepared by Ellingson-DTD



BORE NOTES:

1. Surface elevations assumed to be level
2. Entry riser length is 55'
3. Screen length is 150'
4. STA 0+00 corresponds to entry location
5. 4" SCH80 PVC screen, 0.020" slot width, 0.2% open area

START OF SCREEN

STA 0+54
Depth: 8.0'

END OF SCREEN

STA 2+04
Depth: 6.5'

— Assumed ground surface

— Well riser

- - - Screen

Client Name: AECOM
Job Name: Delavan Spray Technologies
Well Name: SVE-6
Location: Bamberg, SC
Drill Rig: Vermeer 24x40
Drill bit: 6 inch duckbill
Well Screen: 4" SCH80 PVC
Well Casing: 4" SCH80 PVC
Length of Drill Rods: 10 ft
Length of Borehole: 199 ft (Horizontal Distance)
Length of Well: 200 ft
Screen Length: 150 ft
Entry Casing Length: 50 ft

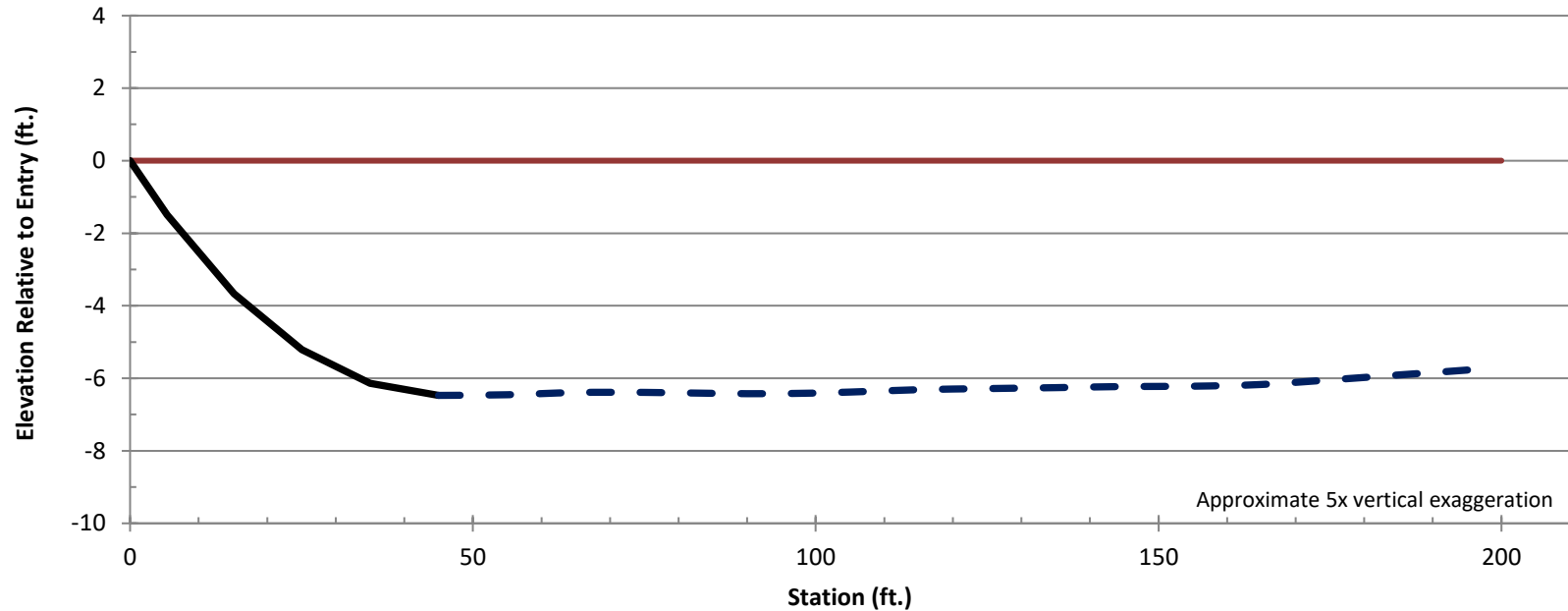
SVE-6



Rig Entry Angle	-16.5	degrees
Elevation at Point of Entry	0	ft
Station at Point of Entry	+	station
Horz distance from Transmitter to Point of Entry	4.4	ft
Height of Transmitter above Point of Entry	0	ft

Rod	Rod Distance from Vices (ft)	Station (####)	Description	Bore Elevation (ft below entry)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	4	+		0.0	-29.6 %	-16.5	0	0.0	NA
1	10	+5		-1.5	-25.9 %	-14.5	5	1.5	160
2	20	+15		-3.7	-18.6 %	-10.6	15	3.7	145
3	30	+25		-5.2	-12.6 %	-7.2	25	5.2	171
4	40	+35		-6.1	-6.1 %	-3.5	35	6.1	155
5	50	+45	start of screen @ STA 0+49	-6.5	-0.5 %	-0.3	45	6.5	179
6	60	+55		-6.5	0.9 %	0.5	55	6.5	716
7	70	+65		-6.4	0.3 %	0.2	65	6.4	1910
8	80	+75		-6.4	-0.3 %	-0.2	75	6.4	1637
9	90	+85		-6.4	-0.3 %	-0.2	85	6.4	Infinite
10	100	+95		-6.4	0.1 %	0.1	95	6.4	2865
11	110	1+05		-6.4	0.8 %	0.5	105	6.4	1432
12	120	1+15		-6.3	0.5 %	0.3	115	6.3	3820
13	130	1+25		-6.3	0.1 %	0.1	125	6.3	2292
14	140	1+35		-6.3	0.4 %	0.3	135	6.3	2865
15	150	1+45		-6.2	0.2 %	0.1	145	6.2	3820
16	160	1+55		-6.2	0.0 %	0.0	155	6.2	5730
17	170	1+65		-6.2	1.0 %	0.6	165	6.2	1042
18	180	1+75		-6.0	1.6 %	0.9	175	6.0	1637
19	190	1+85		-5.9	1.1 %	0.7	185	5.9	2292
20	200	1+95		-5.8	1.6 %	0.9	195	5.8	2292
20.4	204	1+99	end of screen @ STA 1+99	-5.7	1.6 %	0.9	199	5.7	Infinite

SVE-6
Delavan Spray Technologies
AECOM - Bamberg, SC
Prepared by Ellingson-DTD



BORE NOTES:

1. Surface elevations assumed to be level
2. Entry riser length is 50'
3. Screen length is 150'
4. STA 0+00 corresponds to entry location
5. 4" SCH80 PVC screen, 0.020" slot width, 0.2% open area

START OF SCREEN

STA 0+49
Depth: 6.5'

END OF SCREEN

STA 1+99
Depth: 5.7'

— Assumed ground surface

— Well riser

— Screen

Client Name: AECOM
Job Name: Delavan Spray Technologies
Well Name: SVE-7
Location: Bamberg, SC
Drill Rig: Vermeer 24x40
Drill bit: 6 inch duckbill
Well Screen: 4" SCH80 PVC
Well Casing: 4" SCH80 PVC
Length of Drill Rods: 10 ft
Length of Borehole: 119 ft (Horizontal Distance)
Length of Well: 120 ft
Screen Length: 70 ft
Entry Casing Length: 50 ft

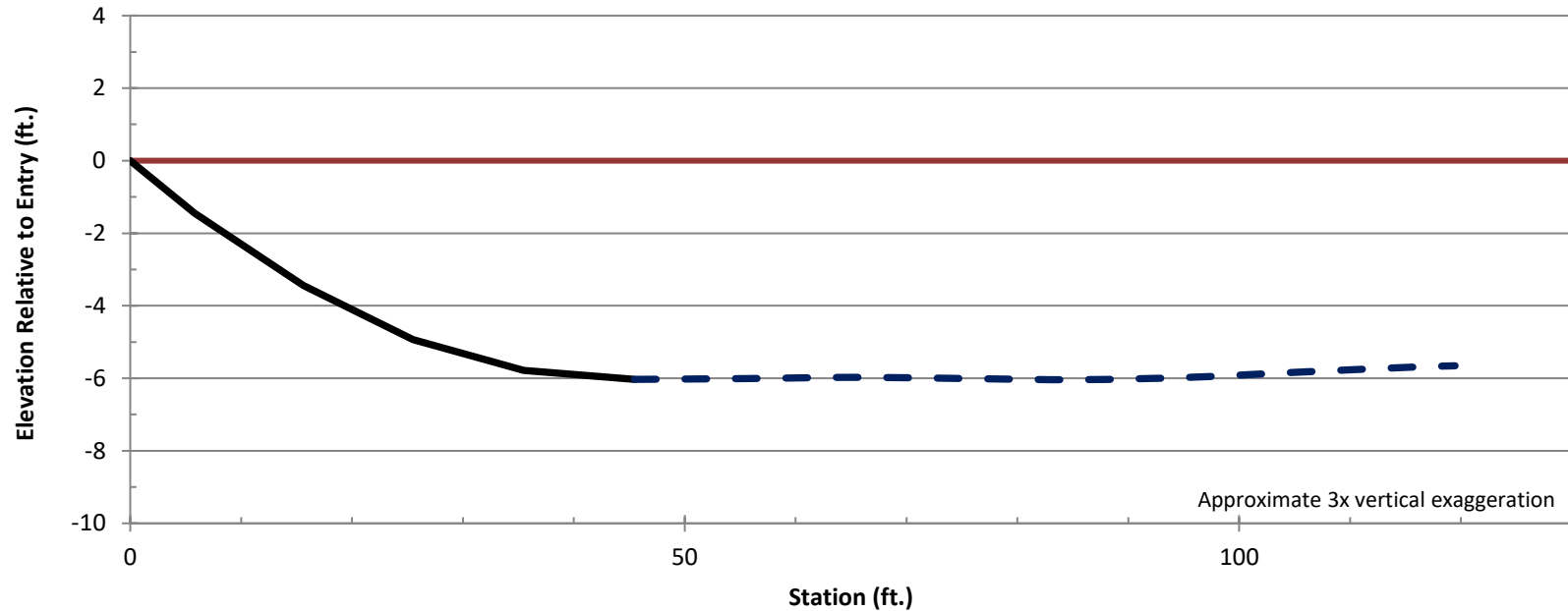
SVE-7



Rig Entry Angle	-15	degrees
Elevation at Point of Entry	0	ft
Station at Point of Entry	+	station
Horz distance from Transmitter to Point of Entry	4	ft
Height of Transmitter above Point of Entry	0	ft

Rod	Rod Distance from Vices (ft)	Station (####)	Description	Bore Elevation (ft below entry)	Percent Slope (%)	Vertical Angle (degrees)	Horizontal Distance (cumulative ft)	Calculated Depth (ft below entry)	Bend Radius (ft)
Point of Entry	4	+		0.0	-26.8 %	-15.0	0	0.0	NA
1	10	+6		-1.5	-23.1 %	-13.0	6	1.5	172
2	20	+16		-3.4	-17.6 %	-10.0	16	3.4	191
3	30	+26		-4.9	-12.5 %	-7.1	26	4.9	198
4	40	+35		-5.8	-4.7 %	-2.7	35	5.8	130
5	50	+45	start of screen @ STA 0+49	-6.0	-0.2 %	-0.1	45	6.0	220
6	60	+55		-6.0	0.6 %	0.4	55	6.0	1273
7	70	+65		-6.0	0.1 %	0.1	65	6.0	1910
8	80	+75		-6.0	-0.8 %	-0.5	75	6.0	1146
9	90	+85		-6.0	0.2 %	0.1	85	6.0	1042
10	100	+95		-6.0	1.1 %	0.7	95	6.0	1042
11	110	1+05		-5.8	1.7 %	1.0	105	5.8	1637
12	120	1+15		-5.7	1.0 %	0.6	115	5.7	1273
12.4	124	1+19	end of screen @ STA 1+19	-5.7	1.0 %	0.6	119	5.7	Infinite

SVE-7
Delavan Spray Technologies
AECOM - Bamberg, SC
Prepared by Ellingson-DTD



BORE NOTES:

1. Surface elevations assumed to be level
2. Entry riser length is 50'
3. Screen length is 70'
4. STA 0+00 corresponds to entry location
5. 4" SCH80 PVC screen, 0.020" slot width, 0.2% open area

START OF SCREEN

STA 0+49
Depth: 6.0'

END OF SCREEN

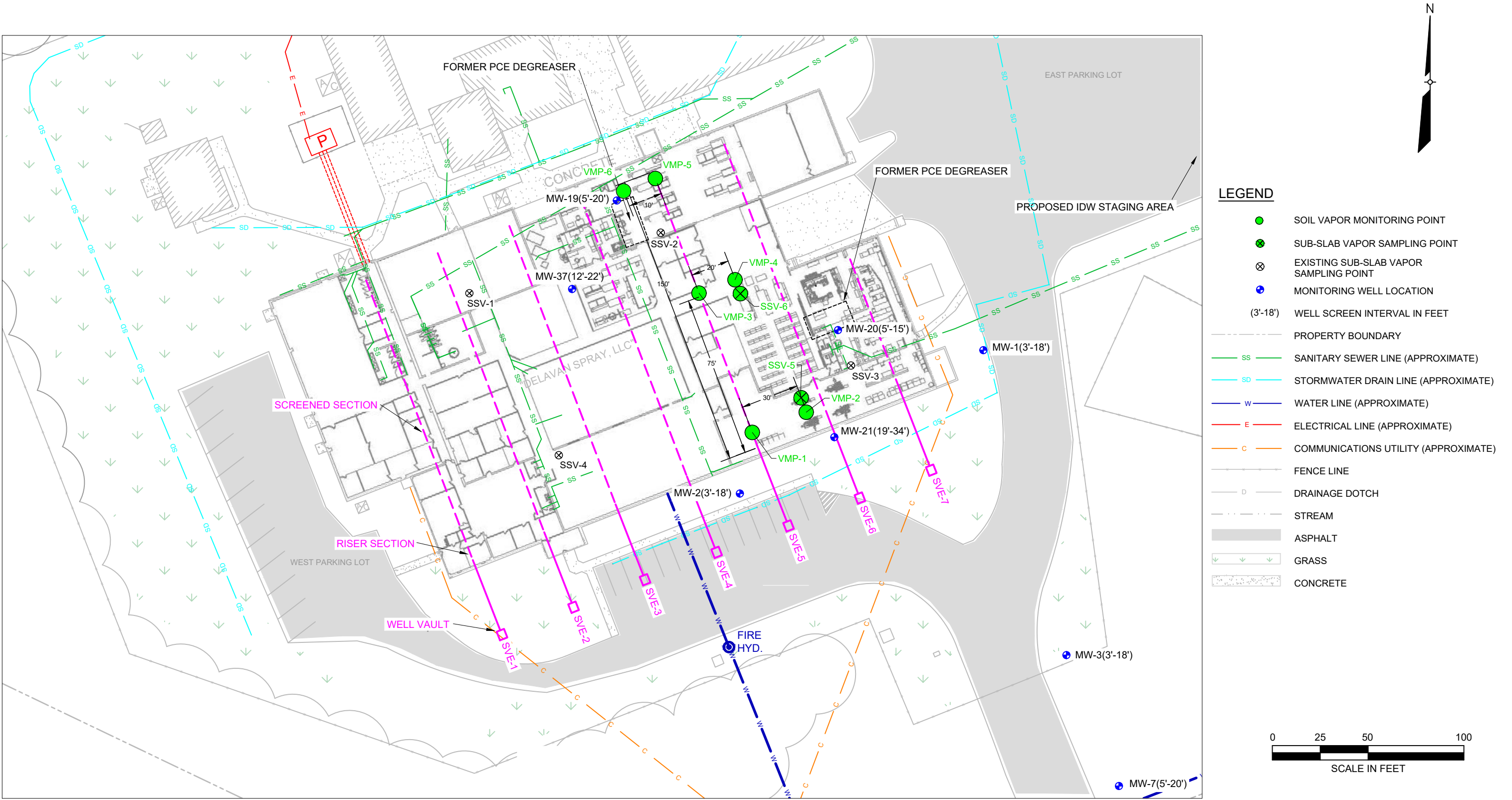
STA 1+19
Depth: 5.7'

— Assumed ground surface

— Well riser

— Screen

**ATTACHMENT 6
SVE PILOT TEST LAYOUT**



**ATTACHMENT 7
PHOTOGRAPHIC LOG**

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/23/2021

Direction:
Southwest

Description:
View of work area prior to SVE well install.



Date:
8/23/2021

Direction:
Northwest

Description:
View of work area prior to SVE well install.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**
8/24/2021**Direction:**
West**Description:**
View of exclusion zone
and roll-off boxes with
secondary containment.**Date:**
8/24/2021**Direction:**
North**Description:**
View of exclusion zone.

Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

8/24/2021

Direction:

North

Description:View of temporary
driller equipment and
materials storage area.**Date:**

8/23/2021

Direction:

South

Description:View of SVE well
materials.

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/23/2021

Direction:
N/A

Description:
View of SVE well
screens.



Date:
8/25/2021

Direction:
N/A

Description:
View of SVE well
screens design
confirmation.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/25/2021

Direction:
N/A

Description:
View of SVE well
screens design
confirmation.



Date:
8/25/2021

Direction:
N/A

Description:
View of SVE well
screens design
confirmation.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/24/2021

Direction:
South

Description:
View of removed asphalt section and excavated entry pit for SVE-5.



Date:
8/24/2021

Direction:
North

Description:
View of removed asphalt section and excavated entry pit for SVE-5.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/24/2021

Direction:
Southwest

Description:
View of driller
equipment and setup.



Date:
8/24/2021

Direction:
East

Description:
View of driller
equipment and setup.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/24/2021

Direction:
Southeast

Description:
View of empty roll-off box.



Date:
8/25/2021

Direction:
N/A

Description:
View of drilling fluid packaging.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/24/2021

Direction:
South

Description:
View of positive displacement pump used to remove drilling return fluids.



Date:
8/24/2021

Direction:
N/A

Description:
View of positive displacement pump intake and entry pit.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**
8/24/2021**Direction:**
West**Description:**
View of SVE-5 borehole
drilling.**Date:**
8/26/2021**Direction:**
North**Description:**
View of SVE-5 well
installation.

Site Name: Delavan Spray Technologies Site

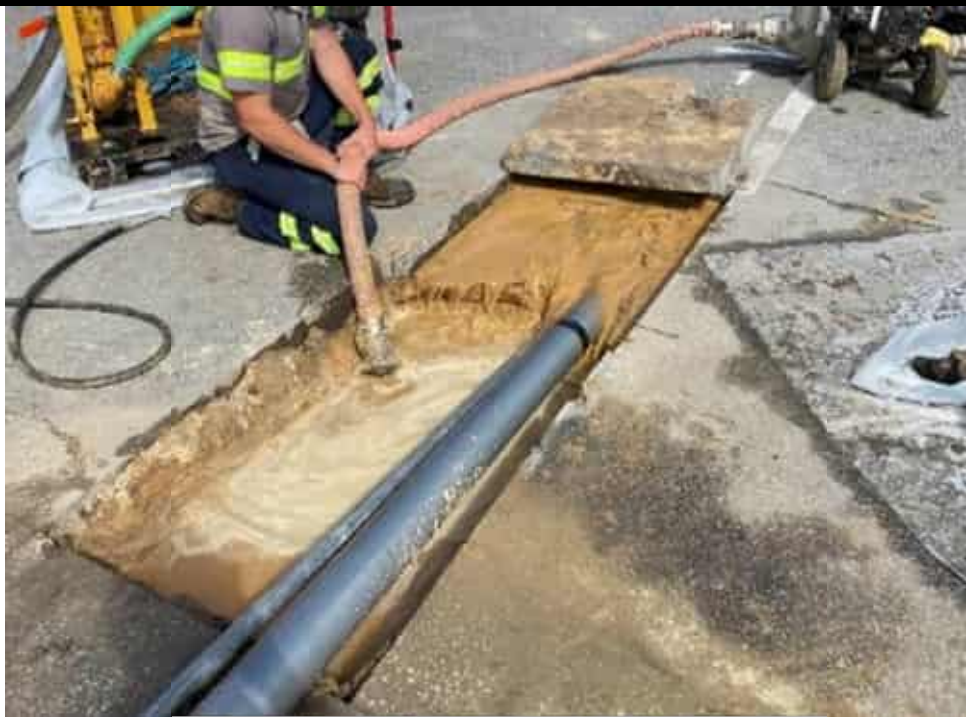
AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/26/2021

Direction:
Northwest

Description:
View of SVE-5 well
flushing.



Date:
8/26/2021

Direction:
North

Description:
View of SVE-5 well
screen jetting.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/26/2021

Direction:
Northwest

Description:
View of SVE-4 borehole drilling.



Date:
8/27/2021

Direction:
South

Description:
View of SVE-4 well installation.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

9/3/2021

Direction:

North

Description:View of SVE-4 well
screen jetting.**Date:**

8/28/2021

Direction:

Northwest

Description:View of SVE-1 borehole
drilling.

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/30/2021

Direction:
Northeast

Description:
View of SVE-1 well
installation.



Date:
8/30/2021

Direction:
Northwest

Description:
View of SVE-1 well
flushing.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/30/2021

Direction:
Northwest

Description:
View of SVE-2 borehole drilling.



Date:
8/31/2021

Direction:
North

Description:
View of SVE-2 borehole.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/31/2021

Direction:
N/A

Description:
View of SVE-2 well
flushing.



Date:
8/31/2021

Direction:
North

Description:
View of SVE-2
completed and capped.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/20/2021

Direction:
N/A

Description:
View of vapor
monitoring point
assembly.



Date:
9/7/2021

Direction:
N/A

Description:
View of vapor
monitoring point
installation inside
facility.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
9/7/2021

Direction:
N/A

Description:
View of completed
vapor monitoring point
installation VMP-4.



Date:
9/7/2021

Direction:
N/A

Description:
View of completed sub-
slab vapor pin
installation SSV-6.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**
9/7/2021**Direction:**
N/A**Description:**
View of completed
vapor monitoring point
and sub-slab vapor pin
installation with
protective covers for
VMP-4 and SSV-6.**Date:**
9/7/2021**Direction:**
N/A**Description:**
View of completed
vapor monitoring point
and sub-slab vapor pin
installation with
protective covers for
VMP-2 and SSV-5.

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
9/7/2021

Direction:
North

Description:
View of pilot test equipment setup.



Date:
9/8/2021

Direction:
Southwest

Description:
View of pilot test equipment setup and connection to SVE-5.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
8/31/2021

Direction:
Southeast

Description:
View of drilling waste
inside roll-off box.



Date:
8/31/2021

Direction:
Northwest

Description:
View of drilling waste
inside roll-off box with
liquids removed.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**
8/31/2021**Direction:**
Southeast**Description:**
View of liquid waste
removal.**Date:**
9/10/2021**Direction:**
Southwest**Description:**
View of liquid waste
removal.

Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**
9/10/2021**Direction:**
South**Description:**
View of solid waste
removal**Date:**
9/10/2021**Direction:**
Northwest**Description:**
View of SVE-1 and
SVE-2 work area post
well installation.

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
9/10/2021

Direction:
North

Description:
View of SVE-3 work
area post well
installation.



Date:
9/10/2021

Direction:
North

Description:
View of SVE-4 work
area post well
installation.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
9/10/2021

Direction:
North

Description:
View of SVE-5 work area post well installation.



Date:
9/10/2021

Direction:
Northeast

Description:
View of SVE-6 and SVE-7 work area post well installation.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**
9/10/2021**Direction:**
West**Description:**
View of work area post
well installation.**Date:**
9/10/2021**Direction:**
West**Description:**
View of work area post
well installation.

Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

8/24/2021

Direction:

West

Description:

View of SVE equipment compound location prior to equipment install.

**Date:**

8/24/2021

Direction:

East

Description:

View of SVE equipment compound location prior to equipment install.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

4/12/2022

Direction:

North

Description:

View of newly installed power utility pole.

**Date:**

4/12/2022

Direction:

Southwest

Description:

View of newly installed power utility pole.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/14/2022

Direction:
East

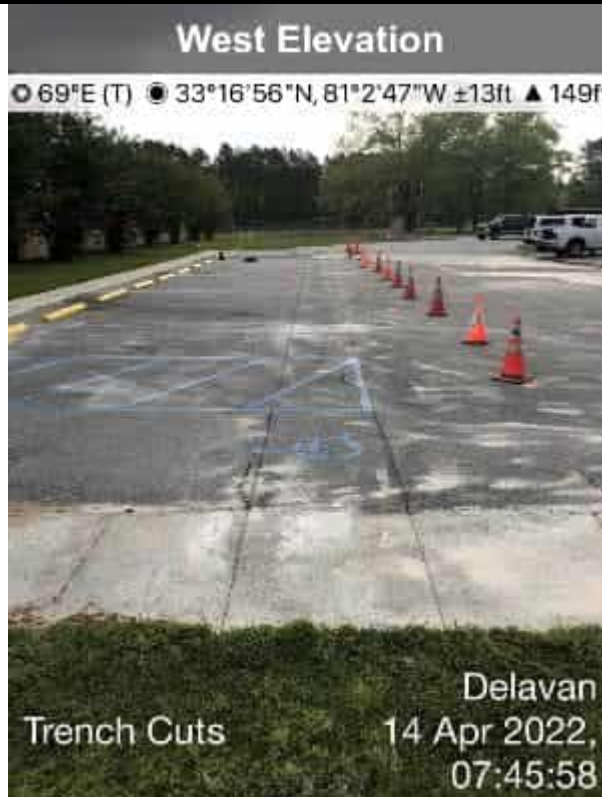
Description:
View of trench cuts at
driveway to west
parking lot.



Date:
4/14/2022

Direction:
East

Description:
View of trench cuts at
front parking lot.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/14/2022

Direction:
North

Description:
View of trench cuts at
SVE-3.



Date:
4/14/2022

Direction:
North

Description:
View of trench cuts at
SVE-4.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/14/2022

Direction:
North

Description:
View of trench cuts at
SVE-5.



Date:
4/14/2022

Direction:
West

Description:
View of trench cuts at
front parking lot.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
Southeast.

Description:
View of trench and conveyance piping at equipment compound.



Date:
4/26/2022

Direction:
East

Description:
View of trench and conveyance piping near driveway to west parking lot.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
East

Description:
View of trench and conveyance piping in front of facility.



Date:
4/26/2022

Direction:
West.

Description:
View of trench and conveyance piping near driveway to west parking lot.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
Southeast

Description:
View of employee
vehicle access to west
parking lot.



Date:
4/26/2022

Direction:
Southeast.

Description:
View of employee
vehicle access to west
parking lot.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
East

Description:
View of employee and visitor pedestrian access to facility.



Date:
4/26/2022

Direction:
North

Description:
View of employee and visitor pedestrian access to facility.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
North

Description:
View of trench and conveyance piping at SVE-1.



Date:
4/26/2022

Direction:
North

Description:
View of trench and conveyance piping at SVE-2.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
North

Description:
View of trench and conveyance piping at SVE-3.



Date:
4/26/2022

Direction:
North

Description:
View of trench and conveyance piping at SVE-4.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
North

Description:
View of trench and conveyance piping at SVE-5.



Date:
4/26/2022

Direction:
North

Description:
View of trench and conveyance piping at SVE-6.





Photographic Record

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
North

Description:
View of trench and conveyance piping at SVE-7.



Date:
4/26/2022

Direction:
West

Description:
View of extended trench and conveyance piping for spare SVE wells.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**
4/26/2022**Direction:**
West**Description:**
View of trench and conveyance piping in front of facility.**Date:**
4/26/2022**Direction:**
Southwest**Description:**
View of trench soils and work area in front of facility.

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/26/2022

Direction:
West

Description:
View of graded area for
equipment compound
and electrical conduit.



Date:
4/26/2022

Direction:
East

Description:
View of graded area for
equipment compound
and electrical conduit.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/29/2022

Direction:
North

Description:
View of backfilled trench, SVE wellhead stub-up, and tracer wire in front parking lot.



Date:
5/2/2022

Direction:
North

Description:
View of backfilled trench, SVE wellhead stub-up, and tracer wire in grass area.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/2/2022

Direction:
West

Description:
View of backfilled trench, spare air sparge piping, and tracer wire near SVE equipment compound.



Date:
5/2/2022

Direction:
West

Description:
View of backfilled trench, spare air sparge piping, and tracer wire in extended trench section near SVE-7.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
4/28/2022

Direction:
Northwest

Description:
View of backfilled trench and SVE stub-ups at equipment compound.



Date:
5/3/2022

Direction:
Northeast

Description:
View of equipment compound area prior to concrete pour.



Site Name: Delavan Spray Technologies Site

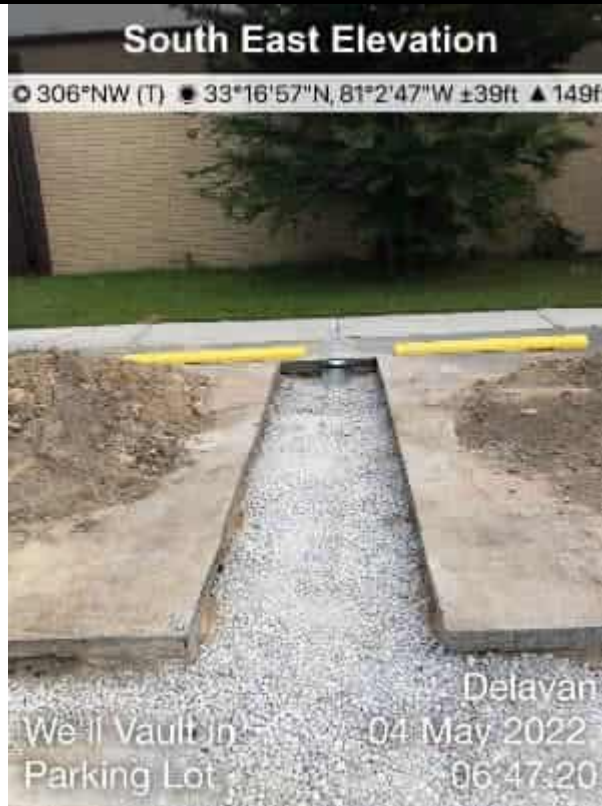
AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/4/2022

Direction:
Northwest

Description:
View of SVE well vault and trench in front parking lot prior to concrete pour.



Date:
5/4/2022

Direction:
Northwest

Description:
View of SVE well vault in grass area prior to concrete pour.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/4/2022

Direction:
Southeast

Description:
View of trench and removed sidewalk section prior to concrete pour.



Date:
5/5/2022

Direction:
Northwest

Description:
View of SVE equipment compound concrete pad.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:

5/5/2022

Direction:

Southeast

Description:

View of SVE equipment compound concrete pad.



Date:

5/5/2022

Direction:

East

Description:

View of backfilled trench near SVE equipment compound.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/5/2022

Direction:
East

Description:
View of concrete capped trench at driveway to west parking lot.



Date:
5/5/2022

Direction:
Northwest

Description:
View of repaired sidewalk.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/5/2022

Direction:
East

Description:
View of concrete capped trench at front parking lot.



Date:
5/5/2022

Direction:
West

Description:
View of concrete capped trench at front parking lot.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

5/5/2022

Direction:

Northeast

Description:

View of backfilled trench and SVE-1 well vault and well pad.

**Date:**

5/5/2022

Direction:

Northeast

Description:

View of concrete capped trench and SVE-3 well vault and surface completion.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/5/2022

Direction:
Southwest

Description:
View of SVE equipment delivery.



Date:
5/5/2022

Direction:
South

Description:
View of delivered SVE equipment.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/5/2022

Direction:
N/A

Description:
View of SVE equipment building interior (electrical panel, transformer, VFD, and control panel).



Date:
5/5/2022

Direction:
N/A

Description:
View of SVE equipment building interior (SVE legs and manifold).



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/5/2022

Direction:
N/A

Description:
View of SVE equipment building interior (SVE legs, manifold, moisture separator, and blower).



Date:
5/5/2022

Direction:
N/A

Description:
View of SVE equipment building interior (SVE legs, manifold, moisture separator, condensate transfer pump, and blower).



Site Name: Delavan Spray Technologies Site

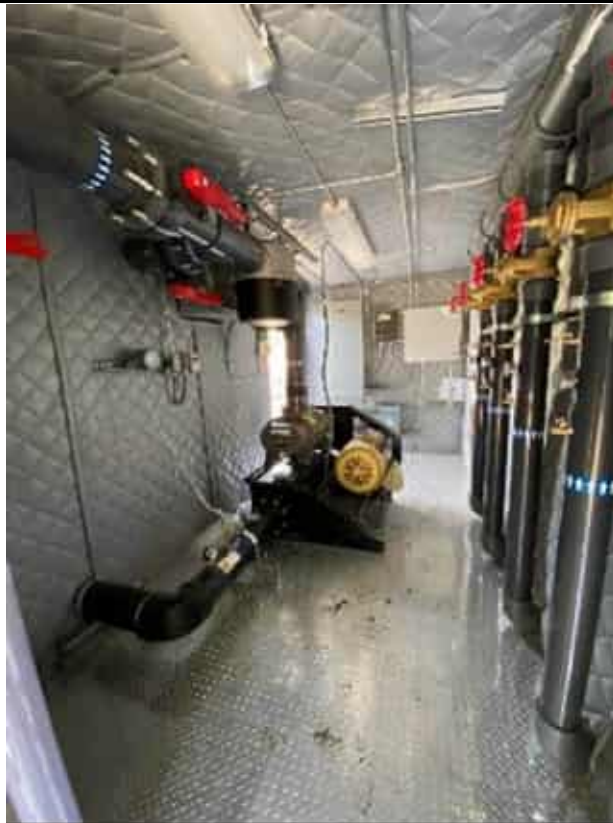
AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/5/2022

Direction:
N/A

Description:
View of SVE equipment building interior (SVE legs, manifold, blower, and effluent flowmeter).



Date:
5/5/2022

Direction:
N/A

Description:
View of SVE equipment building interior (SVE effluent flowmeter and transmitter).



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/11/2022

Direction:
West

Description:
View of SVE equipment
being lifted on to
concrete pad.



Date:
5/11/2022

Direction:
East

Description:
View of SVE equipment
being lifted on to
concrete pad.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/9/2022

Direction:
Northeast

Description:
View of grass seed and straw matting at SVE-6 and SVE-7.



Date:
5/11/2022

Direction:
Southwest

Description:
View of grass seed and straw matting at SVE-1 and SVE-2.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/9/2022

Direction:
North

Description:
View of cured concrete and repainted parking lot lines at front parking lot.



Date:
5/9/2022

Direction:
Northeast

Description:
View of cured concrete and repainted parking lot lines at front parking lot.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:

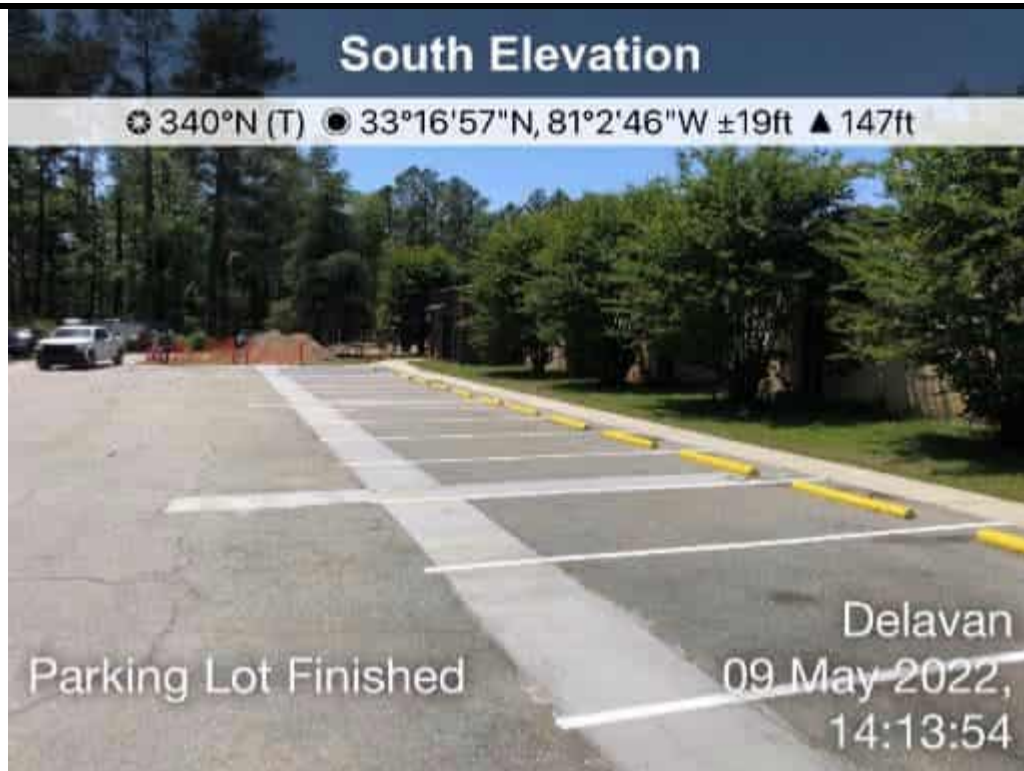
5/9/2022

Direction:

West

Description:

View of cured concrete and repainted parking lot lines at front parking lot.



Date:

5/17/2022

Direction:

Northeast

Description:

View of SVE stub-up connections.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/18/2022

Direction:
Southeast

Description:
View of SVE stub-up
connections with
completed compound
fence.



Date:
5/18/2022

Direction:
West

Description:
View of SVE equipment
power disconnect.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/18/2022

Direction:
South

Description:
View of main power disconnect.



Date:
5/18/2022

Direction:
South

Description:
View of power drop and main power disconnect panel.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/18/2022

Direction:
North

Description:
View of installed SVE condensate storage tank, discharge line, and float sensor conduit.



Date:
5/18/2022

Direction:
West

Description:
View of installed SVE exhaust stack, condensate storage tank, discharge line, and float sensor conduit.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

5/18/2022

Direction:

West

Description:

View of grass seeding and straw matting around SVE equipment compound area.

**Date:**

5/18/2022

Direction:

South

Description:

View of grass seeding and straw matting around SVE equipment compound area.





Photographic Record

Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
5/5/2022

Direction:
Northeast

Description:
View of excess stone
used to repair gravel
road behind east
parking lot.



Date:
6/15/2022

Direction:
Southeast

Description:
View of site restoration
at lawn area near SVE-
6 and SVE-7.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

6/15/2022

Direction:

West

Description:

View of site restoration at lawn area near SVE-1 and SVE-2.

**Date:**

6/15/2022

Direction:

West

Description:

View of site restoration at lawn area near SVE equipment compound.



Site Name: Delavan Spray Technologies Site**AECOM Project #:** 60677502**Site Location:** 4334 Main Highway, Bamberg, SC**Date:**

6/15/2022

Direction:

Northwest

Description:

View of site restoration at lawn area behind SVE equipment compound.

**Date:**

6/15/2022

Direction:

Southeast

Description:

View of site restoration at lawn area near SVE equipment compound.



Site Name: Delavan Spray Technologies Site

AECOM Project #: 60677502

Site Location: 4334 Main Highway, Bamberg, SC

Date:
6/16/2022

Direction:
N/A

Description:
View of control panel human machine interface (HMI) during SVE system startup.



Date:
6/15/2022

Direction:
West

Description:
View of completed SVE system installation.



End of Photographic Record

**ATTACHMENT 8
ANALYTICAL REPORTS**

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

60663618

SGS Job Number: JD31417

Sampling Date: 09/08/21



Report to:

AECOM, INC.
10 Patewood Dr Bldg VI, Suite 500
Greenville, SC 29615
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Robert.Davis@aecom.com
ATTN: Ian Ross

Total number of pages in report: 78



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Beth Stopen 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

Raytheon Technologies Corporation

Job No: JD31417

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 60663618

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
---------------	----------------	---------	----------	------------------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD31417-1	09/08/21	11:53	IR	09/10/21	AIR Soil Vapor Comp.	SVE-5-BASE
JD31417-2	09/08/21	15:55	IR	09/10/21	AIR Soil Vapor Comp.	SVE-5-MID
JD31417-3	09/08/21	18:39	IR	09/10/21	AIR Soil Vapor Comp.	SVE-5-FINAL

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Raytheon Technologies Corporation

Job No: JD31417

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Report Date 9/24/2021 2:45:23 PM

On 09/10/2021, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. Job Number of JD31417 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR

Batch ID: V2W2458

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD31414-5DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Tetrahydrofuran are outside control limits for sample JD31414-5DUP. RPD acceptable due to low DUP and sample concentrations.
- V2W2458-BS for Benzyl Chloride: High percent recovery and no associated positive reported in the QC batch.
- JD31417-1 for Benzyl Chloride: Associated CCV outside of control limits high, sample was ND.
- JD31417-2 for Benzyl Chloride: Associated CCV outside of control limits high, sample was ND.
- JD31417-3 for Benzyl Chloride: Associated CCV outside of control limits high, sample was ND.

Matrix: AIR

Batch ID: V2W2459

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD31512-7DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method EPA TO-3

Matrix: AIR

Batch ID: GQT2578

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD31417-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Friday, September 24, 2021

Page 1 of 1

Summary of Hits

Job Number: JD31417
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 09/08/21



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD31417-1 SVE-5-BASE

Acetone (2-Propanone)	110	0.80	0.45	ppbv	TO-15
Bromomethane	0.43 J	0.80	0.088	ppbv	TO-15
Chloromethane	1.0	0.80	0.061	ppbv	TO-15
Dichlorodifluoromethane	0.50 J	0.80	0.066	ppbv	TO-15
m-Dichlorobenzene	0.91	0.80	0.076	ppbv	TO-15
Ethanol	22.6	2.0	0.87	ppbv	TO-15
Ethylbenzene	0.45 J	0.80	0.060	ppbv	TO-15
Ethyl Acetate	5.2	0.80	0.15	ppbv	TO-15
4-Ethyltoluene	0.40 J	0.80	0.12	ppbv	TO-15
2-Hexanone	6.9	0.80	0.15	ppbv	TO-15
Isopropyl Alcohol	45.9	0.80	0.26	ppbv	TO-15
Methylene chloride	1.1	0.80	0.058	ppbv	TO-15
Methyl ethyl ketone	110	0.80	0.17	ppbv	TO-15
Propylene	9.6	2.0	0.064	ppbv	TO-15
1,1,1-Trichloroethane	0.38 J	0.80	0.13	ppbv	TO-15
1,2,4-Trimethylbenzene	1.9	0.80	0.13	ppbv	TO-15
1,3,5-Trimethylbenzene	0.59 J	0.80	0.13	ppbv	TO-15
Tertiary Butyl Alcohol	0.71 J	0.80	0.055	ppbv	TO-15
Tetrachloroethylene	44.9	0.16	0.12	ppbv	TO-15
Tetrahydrofuran	33.7	0.80	0.20	ppbv	TO-15
Toluene	2.6	0.80	0.058	ppbv	TO-15
Trichloroethylene	1.7	0.16	0.076	ppbv	TO-15
Vinyl Acetate	1.1	0.80	0.14	ppbv	TO-15
m,p-Xylene	2.0	0.80	0.14	ppbv	TO-15
o-Xylene	1.1	0.80	0.068	ppbv	TO-15
Xylenes (total)	3.1	0.80	0.068	ppbv	TO-15
Acetone (2-Propanone)	261	1.9	1.1	ug/m3	TO-15
Bromomethane	1.7 J	3.1	0.34	ug/m3	TO-15
Chloromethane	2.1	1.7	0.13	ug/m3	TO-15
Dichlorodifluoromethane	2.5 J	4.0	0.33	ug/m3	TO-15
m-Dichlorobenzene	5.5	4.8	0.46	ug/m3	TO-15
Ethanol	42.6	3.8	1.6	ug/m3	TO-15
Ethylbenzene	2.0 J	3.5	0.26	ug/m3	TO-15
Ethyl Acetate	19	2.9	0.54	ug/m3	TO-15
4-Ethyltoluene	2.0 J	3.9	0.59	ug/m3	TO-15
2-Hexanone	28	3.3	0.61	ug/m3	TO-15
Isopropyl Alcohol	113	2.0	0.64	ug/m3	TO-15
Methylene chloride	3.8	2.8	0.20	ug/m3	TO-15
Methyl ethyl ketone	324	2.4	0.50	ug/m3	TO-15
Propylene	16	3.4	0.11	ug/m3	TO-15
1,1,1-Trichloroethane	2.1 J	4.4	0.71	ug/m3	TO-15
1,2,4-Trimethylbenzene	9.3	3.9	0.64	ug/m3	TO-15
1,3,5-Trimethylbenzene	2.9 J	3.9	0.64	ug/m3	TO-15

Summary of Hits

Job Number: JD31417

Account: Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Collected: 09/08/21



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tertiary Butyl Alcohol		2.2 J	2.4	0.17	ug/m3	TO-15
Tetrachloroethylene		304	1.1	0.81	ug/m3	TO-15
Tetrahydrofuran		99.4	2.4	0.59	ug/m3	TO-15
Toluene		9.8	3.0	0.22	ug/m3	TO-15
Trichloroethylene		9.1	0.86	0.41	ug/m3	TO-15
Vinyl Acetate		3.9	2.8	0.49	ug/m3	TO-15
m,p-Xylene		8.7	3.5	0.61	ug/m3	TO-15
o-Xylene		4.8	3.5	0.30	ug/m3	TO-15
Xylenes (total)		13	3.5	0.30	ug/m3	TO-15

JD31417-2 SVE-5-MID

Acetone (2-Propanone)	140	4.0	2.2	ppbv	TO-15
Carbon disulfide	3.0 J	4.0	0.47	ppbv	TO-15
1,2-Dibromoethane (EDB)	28.1	4.0	0.36	ppbv	TO-15
Ethanol	123	10	4.4	ppbv	TO-15
Ethylbenzene	3.0 J	4.0	0.30	ppbv	TO-15
Ethyl Acetate	37.8	4.0	0.75	ppbv	TO-15
4-Ethyltoluene	3.2 J	4.0	0.59	ppbv	TO-15
Hexane	160	4.0	0.21	ppbv	TO-15
Isopropyl Alcohol	21.0	4.0	1.3	ppbv	TO-15
Methyl ethyl ketone	106	4.0	0.84	ppbv	TO-15
Styrene	5.1	4.0	0.38	ppbv	TO-15
1,2,4-Trichlorobenzene	6.0	4.0	1.8	ppbv	TO-15
1,2,4-Trimethylbenzene	10.1	4.0	0.66	ppbv	TO-15
1,3,5-Trimethylbenzene	5.4	4.0	0.67	ppbv	TO-15
Tetrachloroethylene	31.3	0.80	0.62	ppbv	TO-15
Tetrahydrofuran	864	8.0	2.0	ppbv	TO-15
Toluene	4.0	4.0	0.29	ppbv	TO-15
m,p-Xylene	9.3	4.0	0.68	ppbv	TO-15
o-Xylene	10.6	4.0	0.34	ppbv	TO-15
Xylenes (total)	19.9	4.0	0.34	ppbv	TO-15
Acetone (2-Propanone)	333	9.5	5.2	ug/m3	TO-15
Carbon disulfide	9.3 J	12	1.5	ug/m3	TO-15
1,2-Dibromoethane (EDB)	216	31	2.8	ug/m3	TO-15
Ethanol	232	19	8.3	ug/m3	TO-15
Ethylbenzene	13 J	17	1.3	ug/m3	TO-15
Ethyl Acetate	136	14	2.7	ug/m3	TO-15
4-Ethyltoluene	16 J	20	2.9	ug/m3	TO-15
Hexane	564	14	0.74	ug/m3	TO-15
Isopropyl Alcohol	51.6	9.8	3.2	ug/m3	TO-15
Methyl ethyl ketone	313	12	2.5	ug/m3	TO-15
Styrene	22	17	1.6	ug/m3	TO-15
1,2,4-Trichlorobenzene	45	30	13	ug/m3	TO-15
1,2,4-Trimethylbenzene	49.6	20	3.2	ug/m3	TO-15

Summary of Hits

Job Number: JD31417
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 09/08/21



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,3,5-Trimethylbenzene		27	20	3.3	ug/m3	TO-15
Tetrachloroethylene		212	5.4	4.2	ug/m3	TO-15
Tetrahydrofuran		2550	24	5.9	ug/m3	TO-15
Toluene		15	15	1.1	ug/m3	TO-15
m,p-Xylene		40	17	3.0	ug/m3	TO-15
o-Xylene		46.0	17	1.5	ug/m3	TO-15
Xylenes (total)		86.4	17	1.5	ug/m3	TO-15

JD31417-3 SVE-5-FINAL

Acetone (2-Propanone)	15.1	0.80	0.45	ppbv	TO-15
Benzene	0.57 J	0.80	0.048	ppbv	TO-15
Chloromethane	0.95	0.80	0.061	ppbv	TO-15
Dichlorodifluoromethane	0.49 J	0.80	0.066	ppbv	TO-15
Ethanol	16.4	2.0	0.87	ppbv	TO-15
Ethylbenzene	0.53 J	0.80	0.060	ppbv	TO-15
4-Ethyltoluene	0.39 J	0.80	0.12	ppbv	TO-15
Hexane	16.1	0.80	0.042	ppbv	TO-15
Isopropyl Alcohol	12.1	0.80	0.26	ppbv	TO-15
Methylene chloride	2.5	0.80	0.058	ppbv	TO-15
Methyl ethyl ketone	7.7	0.80	0.17	ppbv	TO-15
Propylene	0.44 J	2.0	0.064	ppbv	TO-15
Styrene	0.44 J	0.80	0.076	ppbv	TO-15
1,2,4-Trimethylbenzene	1.1	0.80	0.13	ppbv	TO-15
1,3,5-Trimethylbenzene	0.46 J	0.80	0.13	ppbv	TO-15
Tertiary Butyl Alcohol	0.45 J	0.80	0.055	ppbv	TO-15
Tetrachloroethylene	1.6	0.16	0.12	ppbv	TO-15
Tetrahydrofuran	56.5	0.80	0.20	ppbv	TO-15
Toluene	1.7	0.80	0.058	ppbv	TO-15
m,p-Xylene	2.1	0.80	0.14	ppbv	TO-15
o-Xylene	1.1	0.80	0.068	ppbv	TO-15
Xylenes (total)	3.2	0.80	0.068	ppbv	TO-15
Acetone (2-Propanone)	35.9	1.9	1.1	ug/m3	TO-15
Benzene	1.8 J	2.6	0.15	ug/m3	TO-15
Chloromethane	2.0	1.7	0.13	ug/m3	TO-15
Dichlorodifluoromethane	2.4 J	4.0	0.33	ug/m3	TO-15
Ethanol	30.9	3.8	1.6	ug/m3	TO-15
Ethylbenzene	2.3 J	3.5	0.26	ug/m3	TO-15
4-Ethyltoluene	1.9 J	3.9	0.59	ug/m3	TO-15
Hexane	56.7	2.8	0.15	ug/m3	TO-15
Isopropyl Alcohol	29.7	2.0	0.64	ug/m3	TO-15
Methylene chloride	8.7	2.8	0.20	ug/m3	TO-15
Methyl ethyl ketone	23	2.4	0.50	ug/m3	TO-15
Propylene	0.76 J	3.4	0.11	ug/m3	TO-15
Styrene	1.9 J	3.4	0.32	ug/m3	TO-15

Summary of Hits

Job Number: JD31417
Account: Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Collected: 09/08/21



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
1,2,4-Trimethylbenzene		5.4	3.9	0.64	ug/m3	TO-15
1,3,5-Trimethylbenzene		2.3 J	3.9	0.64	ug/m3	TO-15
Tertiary Butyl Alcohol		1.4 J	2.4	0.17	ug/m3	TO-15
Tetrachloroethylene		11	1.1	0.81	ug/m3	TO-15
Tetrahydrofuran		167	2.4	0.59	ug/m3	TO-15
Toluene		6.4	3.0	0.22	ug/m3	TO-15
m,p-Xylene		9.1	3.5	0.61	ug/m3	TO-15
o-Xylene		4.8	3.5	0.30	ug/m3	TO-15
Xylenes (total)		14	3.5	0.30	ug/m3	TO-15



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SVE-5-BASE		
Lab Sample ID:	JD31417-1	Date Sampled:	09/08/21
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/10/21
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W55321.D	1	09/15/21 19:36	TCH	n/a	n/a	V2W2458
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	110	0.80	0.45	ppbv		261	1.9	1.1	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.18	ppbv		ND	1.8	0.40	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.048	ppbv		ND	2.6	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	0.74	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	1.6	ug/m3
74-83-9	94.94	Bromomethane	0.43	0.80	0.088	ppbv	J	1.7	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.088	ppbv		ND	3.5	0.38	ug/m3
100-44-7	126	Benzyl Chloride ^a	ND	0.80	0.23	ppbv		ND	4.1	1.2	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.19	ppbv		ND	2.1	0.50	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.080	ppbv		ND	3.9	0.39	ug/m3
74-87-3	50.49	Chloromethane	1.0	0.80	0.061	ppbv		2.1	1.7	0.13	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.16	ppbv		ND	2.5	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.094	ppbv		ND	5.0	0.59	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.088	ppbv		ND	2.8	0.30	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.046	ppbv		ND	3.2	0.19	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.067	ppbv		ND	3.2	0.27	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.071	ppbv		ND	6.1	0.55	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.083	ppbv		ND	3.2	0.34	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.077	ppbv		ND	3.7	0.36	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.21	ppbv		ND	2.9	0.76	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.80	0.066	ppbv	J	2.5	4.0	0.33	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.13	ppbv		ND	6.8	1.1	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.029	ppbv		ND	3.2	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.047	ppbv		ND	3.2	0.19	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3
541-73-1	147	m-Dichlorobenzene	0.91	0.80	0.076	ppbv		5.5	4.8	0.46	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.087	ppbv		ND	4.8	0.52	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.070	ppbv		ND	4.8	0.42	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-BASE	Date Sampled:	09/08/21
Lab Sample ID:	JD31417-1	Date Received:	09/10/21
Matrix:	AIR - Soil Vapor Comp. Summa ID: A574	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	22.6	2.0	0.87	ppbv		42.6	3.8	1.6	ug/m3
100-41-4	106.2	Ethylbenzene	0.45	0.80	0.060	ppbv	J	2.0	3.5	0.26	ug/m3
141-78-6	88	Ethyl Acetate	5.2	0.80	0.15	ppbv		19	2.9	0.54	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.40	0.80	0.12	ppbv	J	2.0	3.9	0.59	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.068	ppbv		ND	6.1	0.52	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.076	ppbv		ND	5.6	0.53	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.070	ppbv		ND	3.3	0.29	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	1.9	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.042	ppbv		ND	2.8	0.15	ug/m3
591-78-6	100	2-Hexanone	6.9	0.80	0.15	ppbv		28	3.3	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	45.9	0.80	0.26	ppbv		113	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	1.1	0.80	0.058	ppbv		3.8	2.8	0.20	ug/m3
78-93-3	72.11	Methyl ethyl ketone	110	0.80	0.17	ppbv		324	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	0.57	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.077	ppbv		ND	2.9	0.28	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	0.53	ug/m3
115-07-1	42	Propylene	9.6	2.0	0.064	ppbv		16	3.4	0.11	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.076	ppbv		ND	3.4	0.32	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.38	0.80	0.13	ppbv	J	2.1	4.4	0.71	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.11	ppbv		ND	5.5	0.76	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.35	ppbv		ND	5.9	2.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	1.9	0.80	0.13	ppbv		9.3	3.9	0.64	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.59	0.80	0.13	ppbv	J	2.9	3.9	0.64	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.087	ppbv		ND	3.7	0.41	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.71	0.80	0.055	ppbv	J	2.2	2.4	0.17	ug/m3
127-18-4	165.8	Tetrachloroethylene	44.9	0.16	0.12	ppbv		304	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	33.7	0.80	0.20	ppbv		99.4	2.4	0.59	ug/m3
108-88-3	92.14	Toluene	2.6	0.80	0.058	ppbv		9.8	3.0	0.22	ug/m3
79-01-6	131.4	Trichloroethylene	1.7	0.16	0.076	ppbv		9.1	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.089	ppbv		ND	2.0	0.23	ug/m3
108-05-4	86	Vinyl Acetate	1.1	0.80	0.14	ppbv		3.9	2.8	0.49	ug/m3
	106.2	m,p-Xylene	2.0	0.80	0.14	ppbv		8.7	3.5	0.61	ug/m3
95-47-6	106.2	o-Xylene	1.1	0.80	0.068	ppbv		4.8	3.5	0.30	ug/m3
1330-20-7	106.2	Xylenes (total)	3.1	0.80	0.068	ppbv		13	3.5	0.30	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-BASE		
Lab Sample ID:	JD31417-1	Date Sampled:	09/08/21
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/10/21
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-BASE				
Lab Sample ID:	JD31417-1			Date Sampled:	09/08/21
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A574	Date Received:	09/10/21
Method:	EPA TO-3			Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QT225738.D	1.38	09/17/21 09:15	TCH	n/a	n/a	GQT2578
Run #2							

	Initial Volume
Run #1	0.50 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
74-82-8	16	Methane	ND	6.9	0.86	ppmv		ND	4.5	0.56	mg/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		59-135%
460-00-4	4-Bromofluorobenzene	77%		59-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-MID	Date Sampled:	09/08/21
Lab Sample ID:	JD31417-2	Date Received:	09/10/21
Matrix:	AIR - Soil Vapor Comp. Summa ID: A497	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W55322.D	1	09/15/21 20:12	TCH	n/a	n/a	V2W2458
Run #2	2W55330.D	1	09/16/21 11:30	TCH	n/a	n/a	V2W2459

	Initial Volume
Run #1	20.0 ml
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	140	4.0	2.2	ppbv		333	9.5	5.2	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	0.92	ppbv		ND	8.8	2.0	ug/m3
71-43-2	78.11	Benzene	ND	4.0	0.24	ppbv		ND	13	0.77	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.54	ppbv		ND	27	3.6	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	0.75	ppbv		ND	41	7.8	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	0.44	ppbv		ND	16	1.7	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	0.44	ppbv		ND	17	1.9	ug/m3
100-44-7	126	Benzyl Chloride ^a	ND	4.0	1.1	ppbv		ND	21	5.7	ug/m3
75-15-0	76.14	Carbon disulfide	3.0	4.0	0.47	ppbv	J	9.3	12	1.5	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	0.52	ppbv		ND	18	2.4	ug/m3
75-00-3	64.52	Chloroethane	ND	4.0	0.97	ppbv		ND	11	2.6	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.40	ppbv		ND	20	2.0	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	0.31	ppbv		ND	8.3	0.64	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	0.79	ppbv		ND	13	2.5	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	0.50	ppbv		ND	21	2.6	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.47	ppbv		ND	25	3.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	4.0	0.44	ppbv		ND	14	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	4.0	0.23	ppbv		ND	16	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	4.0	0.33	ppbv		ND	16	1.3	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	28.1	4.0	0.36	ppbv		216	31	2.8	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	0.42	ppbv		ND	16	1.7	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	0.38	ppbv		ND	18	1.8	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	1.0	ppbv		ND	14	3.6	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.33	ppbv		ND	20	1.6	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	0.67	ppbv		ND	34	5.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	4.0	0.15	ppbv		ND	16	0.59	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	4.0	0.23	ppbv		ND	16	0.91	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	0.39	ppbv		ND	18	1.8	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.0	0.38	ppbv		ND	24	2.3	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.0	0.44	ppbv		ND	24	2.6	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.0	0.35	ppbv		ND	24	2.1	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	0.39	ppbv		ND	18	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-MID	Date Sampled:	09/08/21
Lab Sample ID:	JD31417-2	Date Received:	09/10/21
Matrix:	AIR - Soil Vapor Comp. Summa ID: A497	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	123	10	4.4	ppbv		232	19	8.3	ug/m3
100-41-4	106.2	Ethylbenzene	3.0	4.0	0.30	ppbv	J	13	17	1.3	ug/m3
141-78-6	88	Ethyl Acetate	37.8	4.0	0.75	ppbv		136	14	2.7	ug/m3
622-96-8	120.19	4-Ethyltoluene	3.2	4.0	0.59	ppbv	J	16	20	2.9	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.34	ppbv		ND	31	2.6	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	0.38	ppbv		ND	28	2.7	ug/m3
142-82-5	100.2	Heptane	ND	4.0	0.35	ppbv		ND	16	1.4	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.0	0.91	ppbv		ND	43	9.7	ug/m3
110-54-3	86.18	Hexane	160	4.0	0.21	ppbv		564	14	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	0.73	ppbv		ND	16	3.0	ug/m3
67-63-0	60.1	Isopropyl Alcohol	21.0	4.0	1.3	ppbv		51.6	9.8	3.2	ug/m3
75-09-2	84.94	Methylene chloride	ND	4.0	0.29	ppbv		ND	14	1.0	ug/m3
78-93-3	72.11	Methyl ethyl ketone	106	4.0	0.84	ppbv		313	12	2.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	0.72	ppbv		ND	16	3.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	0.38	ppbv		ND	14	1.4	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	0.65	ppbv		ND	16	2.7	ug/m3
115-07-1	42	Propylene	ND	10	0.32	ppbv		ND	17	0.55	ug/m3
100-42-5	104.1	Styrene	5.1	4.0	0.38	ppbv		22	17	1.6	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	4.0	0.66	ppbv		ND	22	3.6	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	4.0	0.54	ppbv		ND	27	3.7	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.61	ppbv		ND	22	3.3	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	6.0	4.0	1.8	ppbv		45	30	13	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	10.1	4.0	0.66	ppbv		49.6	20	3.2	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	5.4	4.0	0.67	ppbv		27	20	3.3	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	4.0	0.44	ppbv		ND	19	2.1	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	4.0	0.28	ppbv		ND	12	0.85	ug/m3
127-18-4	165.8	Tetrachloroethylene	31.3	0.80	0.62	ppbv		212	5.4	4.2	ug/m3
109-99-9	72.11	Tetrahydrofuran	864 ^b	8.0	2.0	ppbv		2550 ^b	24	5.9	ug/m3
108-88-3	92.14	Toluene	4.0	4.0	0.29	ppbv		15	15	1.1	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.80	0.38	ppbv		ND	4.3	2.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.56	ppbv		ND	22	3.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	0.45	ppbv		ND	10	1.2	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	0.68	ppbv		ND	14	2.4	ug/m3
	106.2	m,p-Xylene	9.3	4.0	0.68	ppbv		40	17	3.0	ug/m3
95-47-6	106.2	o-Xylene	10.6	4.0	0.34	ppbv		46.0	17	1.5	ug/m3
1330-20-7	106.2	Xylenes (total)	19.9	4.0	0.34	ppbv		86.4	17	1.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	97%	65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-MID		
Lab Sample ID:	JD31417-2	Date Sampled:	09/08/21
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/10/21
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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- (a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID:	SVE-5-MID				
Lab Sample ID:	JD31417-2			Date Sampled:	09/08/21
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A497	Date Received:	09/10/21
Method:	EPA TO-3			Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QT225740.D	1.48	09/17/21 10:20	TCH	n/a	n/a	GQT2578
Run #2							

	Initial Volume
Run #1	0.50 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
74-82-8	16	Methane	ND	7.4	0.92	ppmv		ND	4.8	0.60	mg/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		59-135%
460-00-4	4-Bromofluorobenzene	76%		59-135%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-FINAL		
Lab Sample ID:	JD31417-3	Date Sampled:	09/08/21
Matrix:	AIR - Soil Vapor Comp.	Date Received:	09/10/21
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2W55323.D	1	09/15/21 20:48	TCH	n/a	n/a	V2W2458
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	15.1	0.80	0.45	ppbv		35.9	1.9	1.1	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.18	ppbv		ND	1.8	0.40	ug/m3
71-43-2	78.11	Benzene	0.57	0.80	0.048	ppbv	J	1.8	2.6	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	0.74	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	1.6	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.088	ppbv		ND	3.1	0.34	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.088	ppbv		ND	3.5	0.38	ug/m3
100-44-7	126	Benzyl Chloride ^a	ND	0.80	0.23	ppbv		ND	4.1	1.2	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	0.29	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	0.46	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.19	ppbv		ND	2.1	0.50	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.080	ppbv		ND	3.9	0.39	ug/m3
74-87-3	50.49	Chloromethane	0.95	0.80	0.061	ppbv		2.0	1.7	0.13	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.16	ppbv		ND	2.5	0.50	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.10	ppbv		ND	4.1	0.52	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.094	ppbv		ND	5.0	0.59	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.088	ppbv		ND	2.8	0.30	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.046	ppbv		ND	3.2	0.19	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.067	ppbv		ND	3.2	0.27	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.071	ppbv		ND	6.1	0.55	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.083	ppbv		ND	3.2	0.34	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.077	ppbv		ND	3.7	0.36	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.21	ppbv		ND	2.9	0.76	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.80	0.066	ppbv	J	2.4	4.0	0.33	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.13	ppbv		ND	6.8	1.1	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.029	ppbv		ND	3.2	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.047	ppbv		ND	3.2	0.19	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.076	ppbv		ND	4.8	0.46	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.087	ppbv		ND	4.8	0.52	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.070	ppbv		ND	4.8	0.42	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	0.35	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-FINAL	Date Sampled:	09/08/21
Lab Sample ID:	JD31417-3	Date Received:	09/10/21
Matrix:	AIR - Soil Vapor Comp. Summa ID: A680	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	16.4	2.0	0.87	ppbv		30.9	3.8	1.6	ug/m3
100-41-4	106.2	Ethylbenzene	0.53	0.80	0.060	ppbv	J	2.3	3.5	0.26	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.15	ppbv		ND	2.9	0.54	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.39	0.80	0.12	ppbv	J	1.9	3.9	0.59	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.068	ppbv		ND	6.1	0.52	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.076	ppbv		ND	5.6	0.53	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.070	ppbv		ND	3.3	0.29	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	1.9	ug/m3
110-54-3	86.18	Hexane	16.1	0.80	0.042	ppbv		56.7	2.8	0.15	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.15	ppbv		ND	3.3	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	12.1	0.80	0.26	ppbv		29.7	2.0	0.64	ug/m3
75-09-2	84.94	Methylene chloride	2.5	0.80	0.058	ppbv		8.7	2.8	0.20	ug/m3
78-93-3	72.11	Methyl ethyl ketone	7.7	0.80	0.17	ppbv		23	2.4	0.50	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	0.57	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.077	ppbv		ND	2.9	0.28	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	0.53	ug/m3
115-07-1	42	Propylene	0.44	2.0	0.064	ppbv	J	0.76	3.4	0.11	ug/m3
100-42-5	104.1	Styrene	0.44	0.80	0.076	ppbv	J	1.9	3.4	0.32	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	0.71	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.11	ppbv		ND	5.5	0.76	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	0.65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.35	ppbv		ND	5.9	2.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	1.1	0.80	0.13	ppbv		5.4	3.9	0.64	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.46	0.80	0.13	ppbv	J	2.3	3.9	0.64	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.087	ppbv		ND	3.7	0.41	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.45	0.80	0.055	ppbv	J	1.4	2.4	0.17	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.6	0.16	0.12	ppbv		11	1.1	0.81	ug/m3
109-99-9	72.11	Tetrahydrofuran	56.5	0.80	0.20	ppbv		167	2.4	0.59	ug/m3
108-88-3	92.14	Toluene	1.7	0.80	0.058	ppbv		6.4	3.0	0.22	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	0.62	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.089	ppbv		ND	2.0	0.23	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.14	ppbv		ND	2.8	0.49	ug/m3
	106.2	m,p-Xylene	2.1	0.80	0.14	ppbv		9.1	3.5	0.61	ug/m3
95-47-6	106.2	o-Xylene	1.1	0.80	0.068	ppbv		4.8	3.5	0.30	ug/m3
1330-20-7	106.2	Xylenes (total)	3.2	0.80	0.068	ppbv		14	3.5	0.30	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: SVE-5-FINAL

Lab Sample ID: JD31417-3

Matrix: AIR - Soil Vapor Comp. Summa ID: A680

Method:	TO-15
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Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Date Sampled: 09/08/21

Date Received: 09/10/21

Percent Solids: n/a

VOA T015 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-5-FINAL				
Lab Sample ID:	JD31417-3			Date Sampled:	09/08/21
Matrix:	AIR - Soil Vapor Comp.	Summa ID:	A680	Date Received:	09/10/21
Method:	EPA TO-3			Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QT225741.D	1.43	09/17/21 10:53	TCH	n/a	n/a	GQT2578
Run #2							

	Initial Volume
Run #1	0.50 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
74-82-8	16	Methane	ND	7.2	0.89	ppmv		ND	4.7	0.58	mg/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		59-135%
460-00-4	4-Bromofluorobenzene	75%		59-135%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AIR

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #	Billing Order Control # DW-07221-12
SGS Quote #	SGS Job # JD31417

[illegible]

JD31417: Chain of Custody

Page 1 of 2

5.1

SGS Sample Receipt Summary

Job Number: JD31417

Client: AECOM, INC.

Project: AECOMSCG: DELAVAN SPRAY TECHNOLOGIE

Date / Time Received: 9/10/2021 10:00:00 AM

Delivery Method: FEDEX

Airbill #'s:

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☒		☐	3. COC Present:	☒		☐
2. Custody Seals Intact:	☒		☐	4. Smpl Dates/Time OK	☒		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:			N/A
3. Cooler media:			N/A
4. No. Coolers:			N/A

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☒	☐
2. Trip Blank listed on COC:	☐		☒	☐
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☐		☐	☒

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:			Intact

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒

Test Strip Lot #s:	pH 1-12:	231619	pH 12+:	203117A	Other: (Specify)	
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Comments

SM089-03
Rev. Date 12/7/17

JD31417: Chain of Custody

Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Received: 09/10/21

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A574	1	29.4	09/02/21	SG	CP112952W54761.D		JD31417-1	09/13/21	WC	2			1
A497	1	29.4	09/02/21	SG	CP112975W44831.D		JD31417-2	09/13/21	WC	6			1
A680	1	29.4	09/02/21	SG	CP113062W54867.D		JD31417-3	09/13/21	WC	5.5			1

FLOW CONTROLLERS / OTHER										
Shipping					Receiving					
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type	
FC393	09/02/21	SG	172	.833	09/13/21	WC	175	1.7	Flow Controller	
FC529	09/02/21	SG	172	.833	09/13/21	WC	171	0.6	Flow Controller	
FC912	09/02/21	SG	175	.833	09/13/21	WC	163	7.1	Flow Controller	

SGS Bottle Order(s):
BW-09221-128

Prep Date **Room Temp(F)** **Bar Pres "Hg**
09/02/21 70 29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 3

Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2458-MB	2W55306.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples:

Method: TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.22	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3

Method Blank Summary

Page 2 of 3

Job Number: JD31417**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2458-MB	2W55306.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples:**Method:** TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.018	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.011	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.016	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2458-MB	2W55306.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples: Method: TO-15
JD31417-1, JD31417-2, JD31417-3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	97% 65-128%

Method Blank Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2459-MB	2W55329.D	1	09/16/21	TCH	n/a	n/a	V2W2459

The QC reported here applies to the following samples: Method: TO-15

JD31417-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	97% 65-128%

Method Blank Summary

Page 1 of 3

Job Number: JD31417**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-MB	5W44780.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here applies to the following samples:**Method:** TO-15

V5W1846-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.22	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-MB	5W44780.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here applies to the following samples:

Method: TO-15

V5W1846-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.018	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.011	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.016	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-MB	5W44780.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here applies to the following samples: Method: TO-15

V5W1846-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	97% 65-128%

Method Blank Summary

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Job Number: JD31417**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-MB	5W44825.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here applies to the following samples:**Method:** TO-15

V5W1848-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.22	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JD31417**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-MB	5W44825.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here applies to the following samples:**Method:** TO-15

V5W1848-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.018	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.011	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.016	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-MB	5W44825.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here applies to the following samples: Method: TO-15

V5W1848-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	95% 65-128%

6.1.4
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Job Number: JD31417**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-MB	2W54853.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here applies to the following samples:**Method:** TO-15

V2W2434-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.22	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JD31417**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-MB	2W54853.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here applies to the following samples:**Method:** TO-15

V2W2434-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.018	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.011	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.016	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-MB	2W54853.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here applies to the following samples: Method: TO-15

V2W2434-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	105% 65-128%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2458-BS	2W55303.D	1	09/15/21	TCH	n/a	n/a	V2W2458
V2W2458-BSD	2W55304.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples:

Method: TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.5	85	8.6	86	1	70-130/30
106-99-0	1,3-Butadiene	10	9.4	94	9.0	90	4	70-130/30
71-43-2	Benzene	10	9.6	96	9.3	93	3	70-130/30
75-27-4	Bromodichloromethane	10	9.9	99	9.7	97	2	70-130/30
75-25-2	Bromoform	10	11.6	116	11.2	112	4	70-130/30
74-83-9	Bromomethane	10	9.5	95	9.3	93	2	70-130/30
593-60-2	Bromoethene	10	9.7	97	9.3	93	4	70-130/30
100-44-7	Benzyl Chloride	10	15.0	150* a	14.3	143* a	5	70-130/30
75-15-0	Carbon disulfide	10	9.9	99	9.7	97	2	70-130/30
108-90-7	Chlorobenzene	10	9.8	98	9.5	95	3	70-130/30
75-00-3	Chloroethane	10	9.4	94	9.2	92	2	70-130/30
67-66-3	Chloroform	10	9.7	97	9.4	94	3	70-130/30
74-87-3	Chloromethane	10	8.6	86	8.6	86	0	70-130/30
107-05-1	3-Chloropropene	10	10.3	103	10.1	101	2	70-130/30
95-49-8	2-Chlorotoluene	10	10.6	106	10.1	101	5	70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	10.4	104	1	70-130/30
110-82-7	Cyclohexane	10	10	100	9.5	95	5	70-130/30
75-34-3	1,1-Dichloroethane	10	9.7	97	9.4	94	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.8	98	9.4	94	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.2	102	10.0	100	2	70-130/30
107-06-2	1,2-Dichloroethane	10	9.8	98	9.5	95	3	70-130/30
78-87-5	1,2-Dichloropropane	10	9.1	91	9.0	90	1	70-130/30
123-91-1	1,4-Dioxane	10	9.5	95	9.4	94	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.1	101	9.7	97	4	70-130/30
124-48-1	Dibromochloromethane	10	10.7	107	10.3	103	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.9	99	9.6	96	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.0	100	9.7	97	3	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.3	103	10.0	100	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10.7	107	10.1	101	6	70-130/30
95-50-1	o-Dichlorobenzene	10	11.3	113	10.9	109	4	70-130/30
106-46-7	p-Dichlorobenzene	10	10.8	108	10.4	104	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	10.7	107	10.6	106	1	70-130/30
64-17-5	Ethanol	10	8.1	81	8.1	81	0	70-130/30
100-41-4	Ethylbenzene	10	10.1	101	9.7	97	4	70-130/30
141-78-6	Ethyl Acetate	10	9.9	99	9.6	96	3	70-130/30
622-96-8	4-Ethyltoluene	10	11.1	111	10.7	107	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2458-BS	2W55303.D	1	09/15/21	TCH	n/a	n/a	V2W2458
V2W2458-BSD	2W55304.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples:

Method: TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.1	101	9.9	99	2	70-130/30
76-14-2	Freon 114	10	9.7	97	9.5	95	2	70-130/30
142-82-5	Heptane	10	8.7	87	8.6	86	1	70-130/30
87-68-3	Hexachlorobutadiene	10	12.5	125	12.0	120	4	70-130/30
110-54-3	Hexane	10	9.4	94	9.0	90	4	70-130/30
591-78-6	2-Hexanone	10	9.3	93	9.1	91	2	70-130/30
67-63-0	Isopropyl Alcohol	10	9.1	91	8.8	88	3	70-130/30
75-09-2	Methylene chloride	10	9.4	94	9.2	92	2	70-130/30
78-93-3	Methyl ethyl ketone	10	9.8	98	9.6	96	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.3	93	9.2	92	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.8	108	10.5	105	3	70-130/30
80-62-6	Methylmethacrylate	10	10.3	103	10.2	102	1	70-130/30
115-07-1	Propylene	10	7.8	78	7.5	75	4	70-130/30
100-42-5	Styrene	10	10.8	108	10.3	103	5	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.3	103	10.1	101	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.4	104	10.0	100	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.6	96	9.5	95	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.3	113	10.8	108	5	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.3	113	10.9	109	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.0	110	10.4	104	6	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.3	93	9.0	90	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.6	106	10.2	102	4	70-130/30
127-18-4	Tetrachloroethylene	10	10.2	102	10.2	102	0	70-130/30
109-99-9	Tetrahydrofuran	10	10.2	102	10.2	102	0	70-130/30
108-88-3	Toluene	10	9.8	98	9.5	95	3	70-130/30
79-01-6	Trichloroethylene	10	10.1	101	9.8	98	3	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	9.8	98	3	70-130/30
75-01-4	Vinyl chloride	10	9.1	91	8.8	88	3	70-130/30
108-05-4	Vinyl Acetate	10	10.2	102	9.8	98	4	70-130/30
	m,p-Xylene	20	20.9	105	20.0	100	4	70-130/30
95-47-6	o-Xylene	10	10.2	102	9.8	98	4	70-130/30
1330-20-7	Xylenes (total)	30	31.1	104	29.8	99	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2458-BS	2W55303.D	1	09/15/21	TCH	n/a	n/a	V2W2458
V2W2458-BSD	2W55304.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples: Method: TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2459-BS	2W55326.D	1	09/16/21	TCH	n/a	n/a	V2W2459
V2W2459-BSD	2W55327.D	1	09/16/21	TCH	n/a	n/a	V2W2459

The QC reported here applies to the following samples: Method: TO-15

JD31417-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
109-99-9	Tetrahydrofuran	10	10.6	106	10.1	101	5	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	100%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-BS	5W44777.D	1	07/30/21	TCH	n/a	n/a	V5W1846
V5W1846-BSD	5W44778.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here applies to the following samples:

Method: TO-15

V5W1846-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	10.9	109	10.8	108	1	70-130/30
106-99-0	1,3-Butadiene	10	11.3	113	11.4	114	1	70-130/30
71-43-2	Benzene	10	9.2	92	9.1	91	1	70-130/30
75-27-4	Bromodichloromethane	10	10.0	100	9.8	98	2	70-130/30
75-25-2	Bromoform	10	8.9	89	8.7	87	2	70-130/30
74-83-9	Bromomethane	10	9.4	94	9.4	94	0	70-130/30
593-60-2	Bromoethene	10	10.3	103	10.2	102	1	70-130/30
100-44-7	Benzyl Chloride	10	8.4	84	8.3	83	1	70-130/30
75-15-0	Carbon disulfide	10	10.2	102	10.3	103	1	70-130/30
108-90-7	Chlorobenzene	10	9.2	92	9.1	91	1	70-130/30
75-00-3	Chloroethane	10	11.1	111	11.1	111	0	70-130/30
67-66-3	Chloroform	10	9.8	98	9.8	98	0	70-130/30
74-87-3	Chloromethane	10	10.4	104	10.3	103	1	70-130/30
107-05-1	3-Chloropropene	10	10.7	107	10.6	106	1	70-130/30
95-49-8	2-Chlorotoluene	10	8.9	89	8.7	87	2	70-130/30
56-23-5	Carbon tetrachloride	10	9.7	97	9.6	96	1	70-130/30
110-82-7	Cyclohexane	10	10.2	102	10.1	101	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.3	103	10.3	103	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.3	103	10.3	103	0	70-130/30
106-93-4	1,2-Dibromoethane	10	9.6	96	9.6	96	0	70-130/30
107-06-2	1,2-Dichloroethane	10	10.1	101	10.1	101	0	70-130/30
78-87-5	1,2-Dichloropropane	10	10.6	106	10.4	104	2	70-130/30
123-91-1	1,4-Dioxane	10	9.8	98	9.8	98	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.5	95	9.3	93	2	70-130/30
124-48-1	Dibromochloromethane	10	9.7	97	9.6	96	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.5	105	10.4	104	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.3	103	10.4	104	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.6	96	9.6	96	0	70-130/30
541-73-1	m-Dichlorobenzene	10	8.8	88	8.7	87	1	70-130/30
95-50-1	o-Dichlorobenzene	10	8.9	89	8.7	87	2	70-130/30
106-46-7	p-Dichlorobenzene	10	8.8	88	8.6	86	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.3	93	9.1	91	2	70-130/30
64-17-5	Ethanol	10	10.4	104	10.2	102	2	70-130/30
100-41-4	Ethylbenzene	10	9.5	95	9.3	93	2	70-130/30
141-78-6	Ethyl Acetate	10	11.6	116	11.7	117	1	70-130/30
622-96-8	4-Ethyltoluene	10	9.4	94	9.2	92	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-BS	5W44777.D	1	07/30/21	TCH	n/a	n/a	V5W1846
V5W1846-BSD	5W44778.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here applies to the following samples:

Method: TO-15

V5W1846-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.8	98	9.7	97	1	70-130/30
76-14-2	Freon 114	10	10.1	101	10	100	1	70-130/30
142-82-5	Heptane	10	10.6	106	10.5	105	1	70-130/30
87-68-3	Hexachlorobutadiene	10	8.1	81	7.9	79	2	70-130/30
110-54-3	Hexane	10	10.8	108	10.8	108	0	70-130/30
591-78-6	2-Hexanone	10	10.8	108	10.8	108	0	70-130/30
67-63-0	Isopropyl Alcohol	10	10.9	109	10.9	109	0	70-130/30
75-09-2	Methylene chloride	10	9.7	97	9.7	97	0	70-130/30
78-93-3	Methyl ethyl ketone	10	11.4	114	11.2	112	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.3	113	11.3	113	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10	100	9.9	99	1	70-130/30
80-62-6	Methylmethacrylate	10	11.3	113	11.2	112	1	70-130/30
115-07-1	Propylene	10	10.1	101	10.1	101	0	70-130/30
100-42-5	Styrene	10	9.5	95	9.3	93	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.5	95	9.5	95	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.5	95	9.3	93	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.8	98	9.8	98	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	8.4	84	8.3	83	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.3	93	9.2	92	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.1	91	9.0	90	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.1	101	10.2	102	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.5	105	10.5	105	0	70-130/30
127-18-4	Tetrachloroethylene	10	9.4	94	9.4	94	0	70-130/30
109-99-9	Tetrahydrofuran	10	11.1	111	10.9	109	2	70-130/30
108-88-3	Toluene	10	9.9	99	9.8	98	1	70-130/30
79-01-6	Trichloroethylene	10	9.5	95	9.4	94	1	70-130/30
75-69-4	Trichlorofluoromethane	10	9.6	96	9.5	95	1	70-130/30
75-01-4	Vinyl chloride	10	10.7	107	10.5	105	2	70-130/30
108-05-4	Vinyl Acetate	10	10.6	106	10.6	106	0	70-130/30
	m,p-Xylene	20	18.7	94	18.5	93	1	70-130/30
95-47-6	o-Xylene	10	9.3	93	9.3	93	0	70-130/30
1330-20-7	Xylenes (total)	30	28.0	93	27.8	93	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-BS	5W44777.D	1	07/30/21	TCH	n/a	n/a	V5W1846
V5W1846-BSD	5W44778.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here applies to the following samples: Method: TO-15

V5W1846-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	97%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-BS	5W44822.D	1	08/03/21	TCH	n/a	n/a	V5W1848
V5W1848-BSD	5W44823.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here applies to the following samples:

Method: TO-15

V5W1848-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	10.8	108	10.5	105	3	70-130/30
106-99-0	1,3-Butadiene	10	11.0	110	10.8	108	2	70-130/30
71-43-2	Benzene	10	9.0	90	8.9	89	1	70-130/30
75-27-4	Bromodichloromethane	10	9.7	97	9.6	96	1	70-130/30
75-25-2	Bromoform	10	8.5	85	8.4	84	1	70-130/30
74-83-9	Bromomethane	10	9.0	90	8.8	88	2	70-130/30
593-60-2	Bromoethene	10	9.9	99	9.7	97	2	70-130/30
100-44-7	Benzyl Chloride	10	7.6	76	7.3	73	4	70-130/30
75-15-0	Carbon disulfide	10	10	100	9.9	99	1	70-130/30
108-90-7	Chlorobenzene	10	9.0	90	8.7	87	3	70-130/30
75-00-3	Chloroethane	10	10.9	109	10.7	107	2	70-130/30
67-66-3	Chloroform	10	9.6	96	9.5	95	1	70-130/30
74-87-3	Chloromethane	10	10.0	100	9.9	99	1	70-130/30
107-05-1	3-Chloropropene	10	10.3	103	10.3	103	0	70-130/30
95-49-8	2-Chlorotoluene	10	8.6	86	8.5	85	1	70-130/30
56-23-5	Carbon tetrachloride	10	9.3	93	9.2	92	1	70-130/30
110-82-7	Cyclohexane	10	10.1	101	9.9	99	2	70-130/30
75-34-3	1,1-Dichloroethane	10	10.0	100	9.9	99	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	9.9	99	2	70-130/30
106-93-4	1,2-Dibromoethane	10	9.3	93	9.3	93	0	70-130/30
107-06-2	1,2-Dichloroethane	10	9.9	99	9.7	97	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10.2	102	10.3	103	1	70-130/30
123-91-1	1,4-Dioxane	10	9.5	95	9.3	93	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.1	91	8.8	88	3	70-130/30
124-48-1	Dibromochloromethane	10	9.4	94	9.2	92	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	10.1	101	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.1	101	10	100	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.3	93	9.2	92	1	70-130/30
541-73-1	m-Dichlorobenzene	10	8.4	84	8.1	81	4	70-130/30
95-50-1	o-Dichlorobenzene	10	8.5	85	8.2	82	4	70-130/30
106-46-7	p-Dichlorobenzene	10	8.2	82	8.1	81	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.7	87	8.6	86	1	70-130/30
64-17-5	Ethanol	10	10.2	102	10.1	101	1	70-130/30
100-41-4	Ethylbenzene	10	9.3	93	9.0	90	3	70-130/30
141-78-6	Ethyl Acetate	10	11.4	114	11.2	112	2	70-130/30
622-96-8	4-Ethyltoluene	10	9.1	91	8.7	87	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 3

Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-BS	5W44822.D	1	08/03/21	TCH	n/a	n/a	V5W1848
V5W1848-BSD	5W44823.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here applies to the following samples:

Method: TO-15

V5W1848-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.4	94	9.2	92	2	70-130/30
76-14-2	Freon 114	10	9.7	97	9.5	95	2	70-130/30
142-82-5	Heptane	10	10.3	103	10.3	103	0	70-130/30
87-68-3	Hexachlorobutadiene	10	7.7	77	7.5	75	3	70-130/30
110-54-3	Hexane	10	10.6	106	10.4	104	2	70-130/30
591-78-6	2-Hexanone	10	10.6	106	10.4	104	2	70-130/30
67-63-0	Isopropyl Alcohol	10	10.7	107	10.6	106	1	70-130/30
75-09-2	Methylene chloride	10	9.5	95	9.4	94	1	70-130/30
78-93-3	Methyl ethyl ketone	10	11.0	110	10.9	109	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.9	109	11.0	110	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.7	97	9.6	96	1	70-130/30
80-62-6	Methylmethacrylate	10	10.8	108	10.7	107	1	70-130/30
115-07-1	Propylene	10	9.9	99	9.6	96	3	70-130/30
100-42-5	Styrene	10	9.1	91	8.9	89	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.2	92	9.2	92	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.2	92	8.8	88	4	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.5	95	9.4	94	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	7.4	74	7.2	72	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	8.9	89	8.8	88	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	8.8	88	8.6	86	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.0	100	9.8	98	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.3	103	10.2	102	1	70-130/30
127-18-4	Tetrachloroethylene	10	9.4	94	9.2	92	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.7	107	10.5	105	2	70-130/30
108-88-3	Toluene	10	9.6	96	9.5	95	1	70-130/30
79-01-6	Trichloroethylene	10	9.2	92	9.2	92	0	70-130/30
75-69-4	Trichlorofluoromethane	10	9.3	93	9.2	92	1	70-130/30
75-01-4	Vinyl chloride	10	10.3	103	10.2	102	1	70-130/30
108-05-4	Vinyl Acetate	10	10.5	105	10.5	105	0	70-130/30
	m,p-Xylene	20	18.3	92	17.7	89	3	70-130/30
95-47-6	o-Xylene	10	9.2	92	9.0	90	2	70-130/30
1330-20-7	Xylenes (total)	30	27.5	92	26.7	89	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-BS	5W44822.D	1	08/03/21	TCH	n/a	n/a	V5W1848
V5W1848-BSD	5W44823.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here applies to the following samples: Method: TO-15

V5W1848-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	98%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-BS	2W54850.D	1	08/10/21	TCH	n/a	n/a	V2W2434
V2W2434-BSD	2W54851.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here applies to the following samples:

Method: TO-15

V2W2434-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.7	87	8.6	86	1	70-130/30
106-99-0	1,3-Butadiene	10	9.6	96	9.0	90	6	70-130/30
71-43-2	Benzene	10	9.4	94	9.3	93	1	70-130/30
75-27-4	Bromodichloromethane	10	10.5	105	10.1	101	4	70-130/30
75-25-2	Bromoform	10	11.0	110	10.8	108	2	70-130/30
74-83-9	Bromomethane	10	9.6	96	9.5	95	1	70-130/30
593-60-2	Bromoethene	10	9.5	95	9.4	94	1	70-130/30
100-44-7	Benzyl Chloride	10	13.7	137* a	13.3	133* a	3	70-130/30
75-15-0	Carbon disulfide	10	10.0	100	9.7	97	3	70-130/30
108-90-7	Chlorobenzene	10	9.2	92	8.9	89	3	70-130/30
75-00-3	Chloroethane	10	9.5	95	9.4	94	1	70-130/30
67-66-3	Chloroform	10	10.1	101	9.9	99	2	70-130/30
74-87-3	Chloromethane	10	8.5	85	9.0	90	6	70-130/30
107-05-1	3-Chloropropene	10	10.1	101	9.9	99	2	70-130/30
95-49-8	2-Chlorotoluene	10	9.7	97	9.6	96	1	70-130/30
56-23-5	Carbon tetrachloride	10	11.1	111	10.8	108	3	70-130/30
110-82-7	Cyclohexane	10	9.7	97	9.3	93	4	70-130/30
75-34-3	1,1-Dichloroethane	10	9.9	99	9.7	97	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.7	97	9.7	97	0	70-130/30
106-93-4	1,2-Dibromoethane	10	10.3	103	9.9	99	4	70-130/30
107-06-2	1,2-Dichloroethane	10	10.9	109	10.6	106	3	70-130/30
78-87-5	1,2-Dichloropropane	10	9.0	90	8.8	88	2	70-130/30
123-91-1	1,4-Dioxane	10	9.5	95	9.5	95	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.0	110	10.3	103	7	70-130/30
124-48-1	Dibromochloromethane	10	10.7	107	10.5	105	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.7	97	9.5	95	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10	100	9.6	96	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.4	104	10.2	102	2	70-130/30
541-73-1	m-Dichlorobenzene	10	9.4	94	9.3	93	1	70-130/30
95-50-1	o-Dichlorobenzene	10	10.2	102	9.8	98	4	70-130/30
106-46-7	p-Dichlorobenzene	10	9.6	96	9.4	94	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.0	110	10.7	107	3	70-130/30
64-17-5	Ethanol	10	8.6	86	8.8	88	2	70-130/30
100-41-4	Ethylbenzene	10	9.8	98	9.4	94	4	70-130/30
141-78-6	Ethyl Acetate	10	9.5	95	9.4	94	1	70-130/30
622-96-8	4-Ethyltoluene	10	10.5	105	10.1	101	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-BS	2W54850.D	1	08/10/21	TCH	n/a	n/a	V2W2434
V2W2434-BSD	2W54851.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here applies to the following samples:

Method: TO-15

V2W2434-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.3	103	10	100	3	70-130/30
76-14-2	Freon 114	10	10.1	101	9.9	99	2	70-130/30
142-82-5	Heptane	10	9.2	92	8.9	89	3	70-130/30
87-68-3	Hexachlorobutadiene	10	11.4	114	11.3	113	1	70-130/30
110-54-3	Hexane	10	9.3	93	9.0	90	3	70-130/30
591-78-6	2-Hexanone	10	9.2	92	9.3	93	1	70-130/30
67-63-0	Isopropyl Alcohol	10	9.8	98	9.3	93	5	70-130/30
75-09-2	Methylene chloride	10	9.4	94	9.3	93	1	70-130/30
78-93-3	Methyl ethyl ketone	10	10	100	9.7	97	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.7	97	9.2	92	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	11.1	111	10.7	107	4	70-130/30
80-62-6	Methylmethacrylate	10	10.3	103	10.2	102	1	70-130/30
115-07-1	Propylene	10	7.8	78	7.6	76	3	70-130/30
100-42-5	Styrene	10	10	100	9.7	97	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10	11.0	110	10.7	107	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.6	96	9.3	93	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.6	96	9.4	94	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.9	99	9.5	95	4	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.8	108	10.2	102	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.3	103	10.1	101	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.4	94	9.0	90	4	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	11.5	115	10.8	108	6	70-130/30
127-18-4	Tetrachloroethylene	10	10.1	101	9.9	99	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.3	103	10.1	101	2	70-130/30
108-88-3	Toluene	10	9.7	97	9.6	96	1	70-130/30
79-01-6	Trichloroethylene	10	10.2	102	9.9	99	3	70-130/30
75-69-4	Trichlorofluoromethane	10	10.9	109	10.7	107	2	70-130/30
75-01-4	Vinyl chloride	10	9.3	93	9.0	90	3	70-130/30
108-05-4	Vinyl Acetate	10	10.2	102	10.1	101	1	70-130/30
	m,p-Xylene	20	20.0	100	19.5	98	3	70-130/30
95-47-6	o-Xylene	10	9.9	99	9.5	95	4	70-130/30
1330-20-7	Xylenes (total)	30	29.9	100	29.0	97	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-BS	2W54850.D	1	08/10/21	TCH	n/a	n/a	V2W2434
V2W2434-BSD	2W54851.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here applies to the following samples: Method: TO-15

V2W2434-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	107%	106%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 3

Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD31414-5DUP	2W55310.D	1	09/15/21	TCH	n/a	n/a	V2W2458
JD31414-5	2W55309.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples:

Method: TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	JD31414-5 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	46.3		46.4		0	25
106-99-0	1,3-Butadiene	1.2		1.1		9	25
71-43-2	Benzene	2.4		2.5		4	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	0.97		0.92		5	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	3.1		3.1		0	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.58	J	0.54	J	7	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	0.56		0.57	J	2	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	55.3		57.4		4	25
100-41-4	Ethylbenzene	7.2		7.2		0	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	3.9		3.8		3	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD31414-5DUP	2W55310.D	1	09/15/21	TCH	n/a	n/a	V2W2458
JD31414-5	2W55309.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples:

Method: TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	JD31414-5 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	7.2		7.2		0	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	23.7		24.0		1	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	13.9		14.6		5	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	8.5		9.1		7	25
108-10-1	Methyl Isobutyl Ketone	1.4		1.8		25	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	0.48	J	0.43	J	11	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	2.0		1.9		5	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	13.2		12.8		3	25
108-67-8	1,3,5-Trimethylbenzene	3.4		3.4		0	25
540-84-1	2,2,4-Trimethylpentane	0.85		0.86		1	25
75-65-0	Tertiary Butyl Alcohol	5.7		6.2		8	25
127-18-4	Tetrachloroethylene	0.41		0.43		5	25
109-99-9	Tetrahydrofuran	1.6		1.2		29* a	25
108-88-3	Toluene	22.6		22.1		2	25
79-01-6	Trichloroethylene	ND		ND		nc	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	30.5		30.0		2	25
95-47-6	o-Xylene	10.9		10.8		1	25
1330-20-7	Xylenes (total)	41.4		40.8		1	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD31414-5DUP	2W55310.D	1	09/15/21	TCH	n/a	n/a	V2W2458
JD31414-5	2W55309.D	1	09/15/21	TCH	n/a	n/a	V2W2458

The QC reported here applies to the following samples: Method: TO-15

JD31417-1, JD31417-2, JD31417-3

CAS No.	Surrogate Recoveries	DUP	JD31414-5	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	65-128%

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD31512-7DUP	2W55333.D	1	09/16/21	TCH	n/a	n/a	V2W2459
JD31512-7	2W55332.D	1	09/16/21	TCH	n/a	n/a	V2W2459

The QC reported here applies to the following samples: Method: TO-15

JD31417-2

CAS No.	Compound	JD31512-7 ppbv	DUP Q	ppbv	Q	RPD	Limits
109-99-9	Tetrahydrofuran	ND		ND		nc	25

CAS No.	Surrogate Recoveries	DUP	JD31512-7	Limits
460-00-4	4-Bromofluorobenzene	98%	97%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-SCC	5W44791.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here (Summa A555) applies to the following samples:

Method: TO-15

Batch CP11295 cleaned 07/27/21: JD31417-1(A574)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.80	0.45	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.18	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.048	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.088	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.088	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.23	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.19	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.080	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.061	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.16	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.10	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.094	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.088	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.046	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.067	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.80	0.071	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.083	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.077	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.21	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.066	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.13	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.029	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.047	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.076	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.087	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.070	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	0.87	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.060	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.15	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.12	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-SCC	5W44791.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here (Summa A555) applies to the following samples:

Method: TO-15

Batch CP11295 cleaned 07/27/21: JD31417-1(A574)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.068	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.076	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.070	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.042	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.26	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.058	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.17	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.077	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.064	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.076	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.11	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.35	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.087	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.055	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.12	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.20	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.058	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.089	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.14	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.14	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.068	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.068	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1846-SCC	5W44791.D	1	07/30/21	TCH	n/a	n/a	V5W1846

The QC reported here (Summa A555) applies to the following samples: Method: TO-15

Batch CP11295 cleaned 07/27/21: JD31417-1(A574)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	98% 65-128%

6.4.1
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Summa Cleaning Certification

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-SCC	5W44829.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here (Summa A488) applies to the following samples:

Method: TO-15

Batch CP11297 cleaned 07/28/21: JD31417-2(A497)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.80	0.45	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.18	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.048	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.11	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.15	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.088	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.088	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.23	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.094	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.10	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.19	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.080	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.061	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.16	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.10	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.094	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.088	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.046	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.067	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.80	0.071	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.083	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.077	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.21	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.066	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.13	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.029	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.047	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.076	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.087	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.070	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.078	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	0.87	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.060	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.15	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.12	ppbv		ND	3.9	ug/m3

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-SCC	5W44829.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here (Summa A488) applies to the following samples:

Method: TO-15

Batch CP11297 cleaned 07/28/21: JD31417-2(A497)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.068	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.076	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.070	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.18	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.042	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.15	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.26	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.058	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.17	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.14	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.077	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.13	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.064	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.076	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.13	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.11	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.12	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.35	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.13	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.087	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.055	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.12	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.20	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.058	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.11	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.089	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.14	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.14	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.068	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.068	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W1848-SCC	5W44829.D	1	08/03/21	TCH	n/a	n/a	V5W1848

The QC reported here (Summa A488) applies to the following samples: Method: TO-15

Batch CP11297 cleaned 07/28/21: JD31417-2(A497)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	95% 65-128%

Summa Cleaning Certification

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-SCC	2W54865.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here (Summa M460) applies to the following samples:

Method: TO-15

Batch CP11306 cleaned 08/06/21: JD31417-3(A680)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.11	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.046	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.012	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.027	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.022	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.057	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.024	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.048	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.020	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.015	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.040	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.025	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.024	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.022	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.012	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.017	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.018	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.019	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.052	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.017	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.033	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.0073	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.012	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.022	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.018	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.22	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.015	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.038	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.030	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-SCC	2W54865.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here (Summa M460) applies to the following samples:

Method: TO-15

Batch CP11306 cleaned 08/06/21: JD31417-3(A680)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.017	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.019	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.018	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.011	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.065	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.015	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.042	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.036	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.033	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.016	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.019	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.033	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.027	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.089	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.033	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.034	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.022	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.014	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.031	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.050	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.014	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.028	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.034	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.034	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.017	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.017	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2434-SCC	2W54865.D	1	08/10/21	TCH	n/a	n/a	V2W2434

The QC reported here (Summa M460) applies to the following samples: Method: TO-15

Batch CP11306 cleaned 08/06/21: JD31417-3(A680)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	104% 65-128%

Instrument Performance Check (BFB)

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2424-BFB

Injection Date: 07/27/21

Lab File ID: 2W54653.D

Injection Time: 11:06

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	17344	20.4	Pass
75	30.0 - 66.0% of mass 95	49021	57.7	Pass
95	Base peak, 100% relative abundance	84973	100.0	Pass
96	5.0 - 9.0% of mass 95	5881	6.92	Pass
173	Less than 2.0% of mass 174	215	0.25 (0.29) ^a	Pass
174	50.0 - 120.0% of mass 95	74597	87.8	Pass
175	4.0 - 9.01% of mass 174	5828	6.86 (7.81) ^a	Pass
176	93.0 - 101.0% of mass 174	72717	85.6 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	4763	5.61 (6.55) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2424-IC2424	2W54654.D	07/27/21	11:38	00:32	Initial cal 0.5
V2W2424-IC2424	2W54655.D	07/27/21	12:10	01:04	Initial cal 0.2
V2W2424-IC2424	2W54656.D	07/27/21	12:41	01:35	Initial cal 0.1
V2W2424-IC2424	2W54657.D	07/27/21	13:13	02:07	Initial cal 0.04
V2W2424-IC2424	2W54658.D	07/27/21	13:44	02:38	Initial cal 5
V2W2424-ICC2424	2W54659.D	07/27/21	14:15	03:09	Initial cal 10
V2W2424-IC2424	2W54660.D	07/27/21	14:47	03:41	Initial cal 20
V2W2424-IC2424	2W54661.D	07/27/21	15:21	04:15	Initial cal 40
V2W2424-ICV2424	2W54663.D	07/27/21	16:24	05:18	Initial cal verification 10

Instrument Performance Check (BFB)

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2434-BFB

Injection Date: 08/10/21

Lab File ID: 2W54848.D

Injection Time: 07:33

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	17024	21.3	Pass
75	30.0 - 66.0% of mass 95	45429	56.9	Pass
95	Base peak, 100% relative abundance	79861	100.0	Pass
96	5.0 - 9.0% of mass 95	5203	6.52	Pass
173	Less than 2.0% of mass 174	315	0.39 (0.45) ^a	Pass
174	50.0 - 120.0% of mass 95	70773	88.6	Pass
175	4.0 - 9.01% of mass 174	4937	6.18 (6.98) ^a	Pass
176	93.0 - 101.0% of mass 174	68939	86.3 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	4796	6.01 (6.96) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2434-CC2424	2W54849.D	08/10/21	08:04	00:31	Continuing cal 10
V2W2434-BS	2W54850.D	08/10/21	08:48	01:15	Blank Spike
V2W2434-BSD	2W54851.D	08/10/21	09:20	01:47	Blank Spike Duplicate
V2W2434-MB	2W54853.D	08/10/21	10:35	03:02	Method Blank
ZZZZZZ	2W54854.D	08/10/21	11:23	03:50	(unrelated sample)
ZZZZZZ	2W54855.D	08/10/21	11:54	04:21	(unrelated sample)
JD29616-1	2W54856.D	08/10/21	12:30	04:57	(used for QC only; not part of job JD31417)
JD29616-1DUP	2W54857.D	08/10/21	13:08	05:35	Duplicate
ZZZZZZ	2W54858.D	08/10/21	14:43	07:10	(unrelated sample)
ZZZZZZ	2W54860.D	08/10/21	15:47	08:14	(unrelated sample)
V2W2434-SCC	2W54862.D	08/10/21	16:52	09:19	Summa Cleaning Certification
V2W2434-SCC	2W54863.D	08/10/21	17:27	09:54	Summa Cleaning Certification
V2W2434-SCC	2W54864.D	08/10/21	18:01	10:28	Summa Cleaning Certification
V2W2434-SCC	2W54865.D	08/10/21	18:33	11:00	Summa Cleaning Certification
V2W2434-SCC	2W54866.D	08/10/21	19:04	11:31	Summa Cleaning Certification
V2W2434-SCC	2W54867.D	08/10/21	19:36	12:03	Summa Cleaning Certification

Instrument Performance Check (BFB)

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2458-BFB

Injection Date: 09/15/21

Lab File ID: 2W55301.D

Injection Time: 06:50

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	18155	18.0	Pass
75	30.0 - 66.0% of mass 95	55595	55.0	Pass
95	Base peak, 100% relative abundance	101056	100.0	Pass
96	5.0 - 9.0% of mass 95	6562	6.49	Pass
173	Less than 2.0% of mass 174	804	0.80 (0.87) ^a	Pass
174	50.0 - 120.0% of mass 95	92008	91.0	Pass
175	4.0 - 9.01% of mass 174	6041	5.98 (6.57) ^a	Pass
176	93.0 - 101.0% of mass 174	88235	87.3 (95.9) ^a	Pass
177	5.0 - 9.0% of mass 176	6168	6.10 (6.99) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2458-CC2424	2W55302.D	09/15/21	07:26	00:36	Continuing cal 10
V2W2458-BS	2W55303.D	09/15/21	08:08	01:18	Blank Spike
V2W2458-BSD	2W55304.D	09/15/21	08:45	01:55	Blank Spike Duplicate
V2W2458-MB	2W55306.D	09/15/21	10:15	03:25	Method Blank
ZZZZZZ	2W55307.D	09/15/21	11:06	04:16	(unrelated sample)
ZZZZZZ	2W55308.D	09/15/21	11:41	04:51	(unrelated sample)
JD31414-5	2W55309.D	09/15/21	12:18	05:28	(used for QC only; not part of job JD31417)
JD31414-5DUP	2W55310.D	09/15/21	12:55	06:05	Duplicate
ZZZZZZ	2W55311.D	09/15/21	13:31	06:41	(unrelated sample)
ZZZZZZ	2W55312.D	09/15/21	14:06	07:16	(unrelated sample)
ZZZZZZ	2W55313.D	09/15/21	14:43	07:53	(unrelated sample)
ZZZZZZ	2W55314.D	09/15/21	15:18	08:28	(unrelated sample)
ZZZZZZ	2W55315.D	09/15/21	15:55	09:05	(unrelated sample)
ZZZZZZ	2W55316.D	09/15/21	16:31	09:41	(unrelated sample)
ZZZZZZ	2W55317.D	09/15/21	17:09	10:19	(unrelated sample)
ZZZZZZ	2W55318.D	09/15/21	17:47	10:57	(unrelated sample)
ZZZZZZ	2W55319.D	09/15/21	18:23	11:33	(unrelated sample)
ZZZZZZ	2W55320.D	09/15/21	19:00	12:10	(unrelated sample)
JD31417-1	2W55321.D	09/15/21	19:36	12:46	SVE-5-BASE
JD31417-2	2W55322.D	09/15/21	20:12	13:22	SVE-5-MID
JD31417-3	2W55323.D	09/15/21	20:48	13:58	SVE-5-FINAL

Instrument Performance Check (BFB)

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2459-BFB

Injection Date: 09/16/21

Lab File ID: 2W55324.D

Injection Time: 06:57

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	17313	16.8	Pass
75	30.0 - 66.0% of mass 95	57264	55.6	Pass
95	Base peak, 100% relative abundance	103040	100.0	Pass
96	5.0 - 9.0% of mass 95	6413	6.22	Pass
173	Less than 2.0% of mass 174	246	0.24 (0.26) ^a	Pass
174	50.0 - 120.0% of mass 95	94608	91.8	Pass
175	4.0 - 9.01% of mass 174	7086	6.88 (7.49) ^a	Pass
176	93.0 - 101.0% of mass 174	92128	89.4 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	5733	5.56 (6.22) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2459-CC2424	2W55325.D	09/16/21	07:34	00:37	Continuing cal 10
V2W2459-BS	2W55326.D	09/16/21	08:26	01:29	Blank Spike
V2W2459-BSD	2W55327.D	09/16/21	09:01	02:04	Blank Spike Duplicate
V2W2459-MB	2W55329.D	09/16/21	10:23	03:26	Method Blank
JD31417-2	2W55330.D	09/16/21	11:30	04:33	SVE-5-MID
ZZZZZZ	2W55331.D	09/16/21	12:06	05:09	(unrelated sample)
JD31512-7	2W55332.D	09/16/21	12:42	05:45	(used for QC only; not part of job JD31417)
JD31512-7DUP	2W55333.D	09/16/21	13:19	06:22	Duplicate
ZZZZZZ	2W55334.D	09/16/21	13:55	06:58	(unrelated sample)
ZZZZZZ	2W55336.D	09/16/21	15:23	08:26	(unrelated sample)
ZZZZZZ	2W55337.D	09/16/21	15:59	09:02	(unrelated sample)
ZZZZZZ	2W55339.D	09/16/21	17:11	10:14	(unrelated sample)
ZZZZZZ	2W55340.D	09/16/21	17:46	10:49	(unrelated sample)
V2W2459-SCC	2W55343.D	09/16/21	20:02	13:05	Summa Cleaning Certification
V2W2459-SCC	2W55344.D	09/16/21	20:42	13:45	Summa Cleaning Certification
V2W2459-SCC	2W55345.D	09/16/21	21:23	14:26	Summa Cleaning Certification
ZZZZZZ	2W55346.D	09/16/21	22:01	15:04	(unrelated sample)
ZZZZZZ	2W55347.D	09/16/21	22:36	15:39	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V5W1836-BFB

Injection Date: 07/16/21

Lab File ID: 5W44550.D

Injection Time: 10:10

Instrument ID: GCMS5W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	23429	12.1	Pass
75	30.0 - 66.0% of mass 95	78835	40.7	Pass
95	Base peak, 100% relative abundance	193515	100.0	Pass
96	5.0 - 9.0% of mass 95	12744	6.59	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	201579	104.2	Pass
175	4.0 - 9.0% of mass 174	14992	7.75 (7.44) ^a	Pass
176	93.0 - 101.0% of mass 174	195797	101.2 (97.1) ^a	Pass
177	5.0 - 9.0% of mass 176	13288	6.87 (6.79) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1836-IC1836	5W44551.D	07/16/21	11:00	00:50	Initial cal 0.5
V5W1836-IC1836	5W44552.D	07/16/21	11:49	01:39	Initial cal 0.2
V5W1836-IC1836	5W44553.D	07/16/21	12:37	02:27	Initial cal 0.1
V5W1836-IC1836	5W44554.D	07/16/21	13:26	03:16	Initial cal 0.04
V5W1836-IC1836	5W44555.D	07/16/21	14:15	04:05	Initial cal 5
V5W1836-ICC1836	5W44556.D	07/16/21	15:03	04:53	Initial cal 10
V5W1836-IC1836	5W44557.D	07/16/21	15:55	05:45	Initial cal 20
V5W1836-IC1836	5W44558.D	07/16/21	16:48	06:38	Initial cal 40
V5W1836-ICV1836	5W44560.D	07/16/21	18:54	08:44	Initial cal verification 10

Instrument Performance Check (BFB)

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Job Number: JD31417

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V5W1846-BFB

Injection Date: 07/30/21

Lab File ID: 5W44775.D

Injection Time: 09:00

Instrument ID: GCMS5W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	30400	12.1	Pass
75	30.0 - 66.0% of mass 95	99580	39.6	Pass
95	Base peak, 100% relative abundance	251627	100.0	Pass
96	5.0 - 9.0% of mass 95	16533	6.57	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	258901	102.9	Pass
175	4.0 - 9.0% of mass 174	18813	7.48 (7.27) ^a	Pass
176	93.0 - 101.0% of mass 174	252267	100.3 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	16624	6.61 (6.59) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1846-CC1836	5W44776.D	07/30/21	09:48	00:48	Continuing cal 10
V5W1846-BS	5W44777.D	07/30/21	10:44	01:44	Blank Spike
V5W1846-BSD	5W44778.D	07/30/21	11:33	02:33	Blank Spike Duplicate
V5W1846-MB	5W44780.D	07/30/21	13:16	04:16	Method Blank
JD29155-1	5W44784.D	07/30/21	17:31	08:31	(used for QC only; not part of job JD31417)
JD29155-1DUP	5W44785.D	07/30/21	18:26	09:26	Duplicate
ZZZZZZ	5W44786.D	07/30/21	19:15	10:15	(unrelated sample)
V5W1846-SCC	5W44787.D	07/30/21	20:10	11:10	Summa Cleaning Certification
V5W1846-SCC	5W44791.D	07/30/21	23:34	14:34	Summa Cleaning Certification

Instrument Performance Check (BFB)

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Job Number: JD31417**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC**Sample:** V5W1848-BFB**Injection Date:** 08/03/21**Lab File ID:** 5W44819.D**Injection Time:** 06:59**Instrument ID:** GCMS5W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	49035	12.4	Pass
75	30.0 - 66.0% of mass 95	159666	40.4	Pass
95	Base peak, 100% relative abundance	394923	100.0	Pass
96	5.0 - 9.0% of mass 95	26066	6.60	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	397333	100.6	Pass
175	4.0 - 9.0% of mass 174	29427	7.45 (7.41) ^a	Pass
176	93.0 - 101.0% of mass 174	385003	97.5 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	25621	6.49 (6.65) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W1848-CC1836	5W44821.D	08/03/21	08:58	01:59	Continuing cal 10
V5W1848-BS	5W44822.D	08/03/21	09:47	02:48	Blank Spike
V5W1848-BSD	5W44823.D	08/03/21	10:36	03:37	Blank Spike Duplicate
V5W1848-MB	5W44825.D	08/03/21	12:24	05:25	Method Blank
V5W1848-SCC	5W44829.D	08/03/21	17:45	10:46	Summa Cleaning Certification
V5W1848-SCC	5W44830.D	08/03/21	18:33	11:34	Summa Cleaning Certification
V5W1848-SCC	5W44831.D	08/03/21	19:22	12:23	Summa Cleaning Certification
V5W1848-SCC	5W44833.D	08/03/21	21:10	14:11	Summa Cleaning Certification
V5W1848-SCC	5W44834.D	08/03/21	22:03	15:04	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15	Matrix: AIR
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD31417-1	2W55321.D	99
JD31417-2	2W55330.D	97
JD31417-2	2W55322.D	99
JD31417-3	2W55323.D	97
JD31414-5DUP	2W55310.D	99
JD31512-7DUP	2W55333.D	98
V2W2434-SCC	2W54865.D	104
V2W2458-BS	2W55303.D	102
V2W2458-BSD	2W55304.D	101
V2W2458-MB	2W55306.D	97
V2W2459-BS	2W55326.D	99
V2W2459-BSD	2W55327.D	100
V2W2459-MB	2W55329.D	97
V5W1846-SCC	5W44791.D	98
V5W1848-SCC	5W44829.D	95
V2W2434-BS	2W54850.D	107
V2W2434-BSD	2W54851.D	106
V2W2434-MB	2W54853.D	105
V5W1846-BS	5W44777.D	97
V5W1846-BSD	5W44778.D	97
V5W1846-MB	5W44780.D	97
V5W1848-BS	5W44822.D	99
V5W1848-BSD	5W44823.D	98
V5W1848-MB	5W44825.D	95

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQT2578-MB	QT225737.D	1	09/17/21	TCH	n/a	n/a	GQT2578

The QC reported here applies to the following samples: Method: EPA TO-3

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
74-82-8	Methane	ND	5.0	0.62	ppmv		ND	3.3	mg/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	104% 59-135%
460-00-4	4-Bromofluorobenzene	79% 59-135%

Blank Spike Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQT2578-BS	QT225735.D	1	09/17/21	TCH	n/a	n/a	GQT2578

The QC reported here applies to the following samples: Method: EPA TO-3

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	Spike ppmv	BSP ppmv	BSP %	Limits
74-82-8	Methane	100	109	109	77-129

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	59-135%
460-00-4	4-Bromofluorobenzene	82%	59-135%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD31417-1DUP	QT225739.D	1.38	09/17/21	TCH	n/a	n/a	GQT2578
JD31417-1	QT225738.D	1.38	09/17/21	TCH	n/a	n/a	GQT2578

The QC reported here applies to the following samples: Method: EPA TO-3

JD31417-1, JD31417-2, JD31417-3

CAS No.	Compound	JD31417-1 ppmv	DUP Q	ppmv	Q	RPD	Limits
74-82-8	Methane	ND	ND			nc	20

CAS No.	Surrogate Recoveries	DUP	JD31417-1	Limits
460-00-4	4-Bromofluorobenzene	103%	102%	59-135%
460-00-4	4-Bromofluorobenzene	78%	77%	59-135%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD31417
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: EPA TO-3	Matrix: AIR
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b
JD31417-1	QT225738.D	102	77
JD31417-2	QT225740.D	102	76
JD31417-3	QT225741.D	103	75
GQT2578-BS	QT225735.D	104	82
GQT2578-MB	QT225737.D	104	79
JD31417-1DUP	QT225739.D	103	78

Surrogate Compounds	Recovery Limits
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S1 = 4-Bromofluorobenzene	59-135%
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(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Raytheon Technologies Corporation

AECOMSCG: Delavan Spray Technologies; Bamberg, SC

606 75502

SGS Job Number: JD47017

Sampling Dates: 06/15/22 - 06/16/22



Report to:

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Total number of pages in report: 85



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Beth Stopen 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Raytheon Technologies Corporation

Job No: JD47017

AECOMSCG: Delavan Spray Technologies; Bamberg, SC
Project No: 606 75502

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD47017-1	06/15/22	16:49 IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-INF(061522)
JD47017-2	06/15/22	17:01 IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-EFF(061522)
JD47017-3	06/16/22	11:34 IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-INF(061622)
JD47017-4	06/16/22	11:40 IJR	06/18/22	AIR	Soil Vapor Comp.	SVE-EFF(061622)

CASE NARRATIVE / CONFORMANCE SUMMARY

2

Client: Raytheon Technologies Corporation

Job No: JD47017

Site: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Report Date 7/5/2022 12:58:25 PM

On 06/18/2022, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD47017 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR

Batch ID: V3W3017

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD47214-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2,4-Trichlorobenzene, Hexachlorobutadiene, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, Propylene are outside control limits.
- RPD(s) for Duplicate for Vinyl Acetate are outside control limits for sample JD47214-1DUP. RPD acceptable due to low DUP and sample concentrations.
- V3W3017-BS for 1,2,4-Trichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- JD47017-1 for m-Dichlorobenzene: Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for m-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-1 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for m-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- V3W3017-BS for Hexachlorobutadiene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for m-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for o-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for p-Dichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- V3W3017-BS for Propylene: Outside in house control limits.
- JD47017-2 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-1 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-3 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for m-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

Tuesday, July 5, 2022

Page 1 of 2

MS Volatiles By Method TO-15

Matrix: AIR

Batch ID: V3W3017

- JD47017-1 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-3 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-4 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-2 for p-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for Propylene: This compound in blank spike is outside in house QC limits bias low.
- JD47017-1 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-1 for Hexachlorobutadiene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD47017-4 for o-Dichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

Matrix: AIR

Batch ID: V3W3018

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD47215-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Tetrachloroethylene are outside control limits for sample JD47215-2DUP. RPD acceptable due to low DUP and sample concentrations.

Matrix: AIR

Batch ID: V3W3020

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD47369-1DUP were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD47017

Account: Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Collected: 06/15/22 thru 06/16/22



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JD47017-1 SVE-INF(061522)

Acetone (2-Propanone)	25.4	0.80	0.58	ppbv	TO-15
Benzene	0.86	0.80	0.25	ppbv	TO-15
Chloromethane	0.61 J	0.80	0.36	ppbv	TO-15
Cyclohexane	1.5	0.80	0.44	ppbv	TO-15
1,1-Dichloroethylene	0.41 J	0.80	0.24	ppbv	TO-15
cis-1,2-Dichloroethylene	0.38 J	0.80	0.31	ppbv	TO-15
m-Dichlorobenzene ^a	3.8	0.80	0.16	ppbv	TO-15
Ethanol	39.5	2.0	1.6	ppbv	TO-15
Ethylbenzene	3.0	0.80	0.24	ppbv	TO-15
Ethyl Acetate	37.0	0.80	0.42	ppbv	TO-15
4-Ethyltoluene	0.46 J	0.80	0.38	ppbv	TO-15
Heptane	0.83	0.80	0.37	ppbv	TO-15
Hexane	0.79 J	0.80	0.45	ppbv	TO-15
Isopropyl Alcohol	20.2	0.80	0.56	ppbv	TO-15
Methylene chloride	5.0	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	12.5	0.80	0.44	ppbv	TO-15
Methyl Isobutyl Ketone	6.4	0.80	0.29	ppbv	TO-15
Styrene	1.2	0.80	0.47	ppbv	TO-15
1,1,1-Trichloroethane	4.7	0.80	0.15	ppbv	TO-15
1,2,4-Trimethylbenzene	1.3	0.80	0.35	ppbv	TO-15
1,3,5-Trimethylbenzene	0.42 J	0.80	0.32	ppbv	TO-15
Tertiary Butyl Alcohol	7.4	0.80	0.37	ppbv	TO-15
Tetrachloroethylene	291	0.32	0.11	ppbv	TO-15
Tetrahydrofuran	46.0	0.80	0.36	ppbv	TO-15
Toluene	18.0	0.80	0.23	ppbv	TO-15
Trichloroethylene	0.66	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane	0.53 J	0.80	0.14	ppbv	TO-15
Vinyl Acetate	3.2	0.80	0.45	ppbv	TO-15
m,p-Xylene	12.5	0.80	0.56	ppbv	TO-15
o-Xylene	3.6	0.80	0.31	ppbv	TO-15
Xylenes (total)	16.1	0.80	0.31	ppbv	TO-15
Acetone (2-Propanone)	60.3	1.9	1.4	ug/m3	TO-15
Benzene	2.7	2.6	0.80	ug/m3	TO-15
Chloromethane	1.3 J	1.7	0.74	ug/m3	TO-15
Cyclohexane	5.2	2.8	1.5	ug/m3	TO-15
1,1-Dichloroethylene	1.6 J	3.2	0.95	ug/m3	TO-15
cis-1,2-Dichloroethylene	1.5 J	3.2	1.2	ug/m3	TO-15
m-Dichlorobenzene ^a	23	4.8	0.96	ug/m3	TO-15
Ethanol	74.4	3.8	3.0	ug/m3	TO-15
Ethylbenzene	13	3.5	1.0	ug/m3	TO-15
Ethyl Acetate	133	2.9	1.5	ug/m3	TO-15
4-Ethyltoluene	2.3 J	3.9	1.9	ug/m3	TO-15
Heptane	3.4	3.3	1.5	ug/m3	TO-15

Summary of Hits

Job Number: JD47017

Account: Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Collected: 06/15/22 thru 06/16/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Hexane		2.8 J	2.8	1.6	ug/m3	TO-15
Isopropyl Alcohol		49.7	2.0	1.4	ug/m3	TO-15
Methylene chloride		17	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone		36.9	2.4	1.3	ug/m3	TO-15
Methyl Isobutyl Ketone		26	3.3	1.2	ug/m3	TO-15
Styrene		5.1	3.4	2.0	ug/m3	TO-15
1,1,1-Trichloroethane		26	4.4	0.82	ug/m3	TO-15
1,2,4-Trimethylbenzene		6.4	3.9	1.7	ug/m3	TO-15
1,3,5-Trimethylbenzene		2.1 J	3.9	1.6	ug/m3	TO-15
Tertiary Butyl Alcohol		22	2.4	1.1	ug/m3	TO-15
Tetrachloroethylene		1970	2.2	0.75	ug/m3	TO-15
Tetrahydrofuran		136	2.4	1.1	ug/m3	TO-15
Toluene		67.8	3.0	0.87	ug/m3	TO-15
Trichloroethylene		3.5	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		3.0 J	4.5	0.79	ug/m3	TO-15
Vinyl Acetate		11	2.8	1.6	ug/m3	TO-15
m,p-Xylene		54.3	3.5	2.4	ug/m3	TO-15
o-Xylene		16	3.5	1.3	ug/m3	TO-15
Xylenes (total)		69.9	3.5	1.3	ug/m3	TO-15

JD47017-2 SVE-EFF(061522)

Acetone (2-Propanone)	49.5	8.0	5.8	ppbv	TO-15
Ethyl Acetate	5.6 J	8.0	4.2	ppbv	TO-15
Methylene chloride	5.1 J	8.0	2.2	ppbv	TO-15
Methyl ethyl ketone	16.1	8.0	4.4	ppbv	TO-15
1,1,1-Trichloroethane	27.8	8.0	1.5	ppbv	TO-15
Tetrachloroethylene	5060	7.4	2.6	ppbv	TO-15
Tetrahydrofuran	389	8.0	3.6	ppbv	TO-15
Toluene	5.9 J	8.0	2.3	ppbv	TO-15
Trichloroethylene	5.1	1.6	0.76	ppbv	TO-15
Acetone (2-Propanone)	118	19	14	ug/m3	TO-15
Ethyl Acetate	20 J	29	15	ug/m3	TO-15
Methylene chloride	18 J	28	7.6	ug/m3	TO-15
Methyl ethyl ketone	47.5	24	13	ug/m3	TO-15
1,1,1-Trichloroethane	152	44	8.2	ug/m3	TO-15
Tetrachloroethylene	34300	50	18	ug/m3	TO-15
Tetrahydrofuran	1150	24	11	ug/m3	TO-15
Toluene	22 J	30	8.7	ug/m3	TO-15
Trichloroethylene	27	8.6	4.1	ug/m3	TO-15

JD47017-3 SVE-INF(061622)

Acetone (2-Propanone)	50.1	4.0	2.9	ppbv	TO-15
Benzene	5.4	4.0	1.2	ppbv	TO-15

Summary of Hits

Job Number: JD47017

Account: Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Collected: 06/15/22 thru 06/16/22



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cyclohexane		9.3	4.0	2.2	ppbv	TO-15
1,1-Dichloroethylene		2.1 J	4.0	1.2	ppbv	TO-15
cis-1,2-Dichloroethylene		3.4 J	4.0	1.5	ppbv	TO-15
Ethanol		74.1	10	7.9	ppbv	TO-15
Ethylbenzene		11.2	4.0	1.2	ppbv	TO-15
Ethyl Acetate		178	4.0	2.1	ppbv	TO-15
Heptane		3.4 J	4.0	1.8	ppbv	TO-15
Hexane		2.5 J	4.0	2.2	ppbv	TO-15
Isopropyl Alcohol		31.1	4.0	2.8	ppbv	TO-15
Methylene chloride		12.4	4.0	1.1	ppbv	TO-15
Methyl ethyl ketone		33.8	4.0	2.2	ppbv	TO-15
Methyl Isobutyl Ketone		10.3	4.0	1.5	ppbv	TO-15
1,1,1-Trichloroethane		8.3	4.0	0.74	ppbv	TO-15
1,2,4-Trimethylbenzene		2.9 J	4.0	1.7	ppbv	TO-15
Tertiary Butyl Alcohol		8.2	4.0	1.9	ppbv	TO-15
Tetrachloroethylene		1560	1.6	0.56	ppbv	TO-15
Tetrahydrofuran		41.8	4.0	1.8	ppbv	TO-15
Toluene		75.6	4.0	1.1	ppbv	TO-15
Trichloroethylene		3.9	0.80	0.38	ppbv	TO-15
Vinyl Acetate		5.7	4.0	2.2	ppbv	TO-15
m,p-Xylene		42.4	4.0	2.8	ppbv	TO-15
o-Xylene		11.7	4.0	1.5	ppbv	TO-15
Xylenes (total)		54.0	4.0	1.5	ppbv	TO-15
Acetone (2-Propanone)		119	9.5	6.9	ug/m3	TO-15
Benzene		17	13	3.8	ug/m3	TO-15
Cyclohexane		32	14	7.6	ug/m3	TO-15
1,1-Dichloroethylene		8.3 J	16	4.8	ug/m3	TO-15
cis-1,2-Dichloroethylene		13 J	16	5.9	ug/m3	TO-15
Ethanol		140	19	15	ug/m3	TO-15
Ethylbenzene		48.6	17	5.2	ug/m3	TO-15
Ethyl Acetate		641	14	7.6	ug/m3	TO-15
Heptane		14 J	16	7.4	ug/m3	TO-15
Hexane		8.8 J	14	7.8	ug/m3	TO-15
Isopropyl Alcohol		76.4	9.8	6.9	ug/m3	TO-15
Methylene chloride		43.1	14	3.8	ug/m3	TO-15
Methyl ethyl ketone		99.7	12	6.5	ug/m3	TO-15
Methyl Isobutyl Ketone		42.2	16	6.1	ug/m3	TO-15
1,1,1-Trichloroethane		45	22	4.0	ug/m3	TO-15
1,2,4-Trimethylbenzene		14 J	20	8.4	ug/m3	TO-15
Tertiary Butyl Alcohol		25	12	5.8	ug/m3	TO-15
Tetrachloroethylene		10600	11	3.8	ug/m3	TO-15
Tetrahydrofuran		123	12	5.3	ug/m3	TO-15
Toluene		285	15	4.1	ug/m3	TO-15
Trichloroethylene		21	4.3	2.0	ug/m3	TO-15
Vinyl Acetate		20	14	7.7	ug/m3	TO-15

Summary of Hits

Job Number: JD47017

Account: Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Collected: 06/15/22 thru 06/16/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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m,p-Xylene		184	17	12	ug/m3	TO-15
o-Xylene		50.8	17	6.5	ug/m3	TO-15
Xylenes (total)		235	17	6.5	ug/m3	TO-15

JD47017-4 SVE-EFF(061622)

Acetone (2-Propanone)		53.8	4.0	2.9	ppbv	TO-15
Benzene		98.5	4.0	1.2	ppbv	TO-15
Cyclohexane		2.8 J	4.0	2.2	ppbv	TO-15
1,1-Dichloroethylene		2.1 J	4.0	1.2	ppbv	TO-15
trans-1,2-Dichloroethylene		2.1 J	4.0	1.4	ppbv	TO-15
cis-1,2-Dichloroethylene		3.0 J	4.0	1.5	ppbv	TO-15
Ethanol		30.8	10	7.9	ppbv	TO-15
Ethylbenzene		24.2	4.0	1.2	ppbv	TO-15
Ethyl Acetate		7.9	4.0	2.1	ppbv	TO-15
4-Ethyltoluene		6.0	4.0	1.9	ppbv	TO-15
Heptane		5.1	4.0	1.8	ppbv	TO-15
Hexane		2.2 J	4.0	2.2	ppbv	TO-15
Isopropyl Alcohol		4.8	4.0	2.8	ppbv	TO-15
Methylene chloride		5.3	4.0	1.1	ppbv	TO-15
Methyl ethyl ketone		25.7	4.0	2.2	ppbv	TO-15
Propylene ^b		5.8 J	10	2.8	ppbv	TO-15
1,1,1-Trichloroethane		7.9	4.0	0.74	ppbv	TO-15
1,2,4-Trimethylbenzene		14.4	4.0	1.7	ppbv	TO-15
1,3,5-Trimethylbenzene		5.1	4.0	1.6	ppbv	TO-15
2,2,4-Trimethylpentane		3.0 J	4.0	1.9	ppbv	TO-15
Tetrachloroethylene		1910	1.6	0.56	ppbv	TO-15
Tetrahydrofuran		33.4	4.0	1.8	ppbv	TO-15
Toluene		101	4.0	1.1	ppbv	TO-15
Trichloroethylene		5.9	0.80	0.38	ppbv	TO-15
m,p-Xylene		98.1	4.0	2.8	ppbv	TO-15
o-Xylene		33.2	4.0	1.5	ppbv	TO-15
Xylenes (total)		131	4.0	1.5	ppbv	TO-15
Acetone (2-Propanone)		128	9.5	6.9	ug/m3	TO-15
Benzene		315	13	3.8	ug/m3	TO-15
Cyclohexane		9.6 J	14	7.6	ug/m3	TO-15
1,1-Dichloroethylene		8.3 J	16	4.8	ug/m3	TO-15
trans-1,2-Dichloroethylene		8.3 J	16	5.6	ug/m3	TO-15
cis-1,2-Dichloroethylene		12 J	16	5.9	ug/m3	TO-15
Ethanol		58.0	19	15	ug/m3	TO-15
Ethylbenzene		105	17	5.2	ug/m3	TO-15
Ethyl Acetate		28	14	7.6	ug/m3	TO-15
4-Ethyltoluene		29	20	9.3	ug/m3	TO-15
Heptane		21	16	7.4	ug/m3	TO-15
Hexane		7.8 J	14	7.8	ug/m3	TO-15

Summary of Hits

Job Number: JD47017

Account: Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Collected: 06/15/22 thru 06/16/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Isopropyl Alcohol		12	9.8	6.9	ug/m3	TO-15
Methylene chloride		18	14	3.8	ug/m3	TO-15
Methyl ethyl ketone		75.8	12	6.5	ug/m3	TO-15
Propylene ^b		10 J	17	4.8	ug/m3	TO-15
1,1,1-Trichloroethane		43	22	4.0	ug/m3	TO-15
1,2,4-Trimethylbenzene		70.8	20	8.4	ug/m3	TO-15
1,3,5-Trimethylbenzene		25	20	7.9	ug/m3	TO-15
2,2,4-Trimethylpentane		14 J	19	8.9	ug/m3	TO-15
Tetrachloroethylene		13000	11	3.8	ug/m3	TO-15
Tetrahydrofuran		98.5	12	5.3	ug/m3	TO-15
Toluene		381	15	4.1	ug/m3	TO-15
Trichloroethylene		32	4.3	2.0	ug/m3	TO-15
m,p-Xylene		426	17	12	ug/m3	TO-15
o-Xylene		144	17	6.5	ug/m3	TO-15
Xylenes (total)		569	17	6.5	ug/m3	TO-15

(a) Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias high.

(b) This compound in blank spike is outside in house QC limits bias low.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SVE-INF(061522)	Date Sampled:	06/15/22
Lab Sample ID:	JD47017-1	Date Received:	06/18/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1093	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W76679.D	1	06/28/22 07:48	BK	n/a	n/a	V3W3017
Run #2	3W76709.D	1	06/29/22 07:10	TCH	n/a	n/a	V3W3018

	Initial Volume
Run #1	100 ml
Run #2	50.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	25.4	0.80	0.58	ppbv		60.3	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	0.86	0.80	0.25	ppbv		2.7	2.6	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.61	0.80	0.36	ppbv	J	1.3	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	1.5	0.80	0.44	ppbv		5.2	2.8	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.41	0.80	0.24	ppbv	J	1.6	3.2	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.38	0.80	0.31	ppbv	J	1.5	3.2	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene ^a	3.8	0.80	0.16	ppbv		23	4.8	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene ^b	ND	0.80	0.62	ppbv		ND	4.8	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene ^b	ND	0.80	0.76	ppbv		ND	4.8	4.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-INF(061522)	Date Sampled:	06/15/22
Lab Sample ID:	JD47017-1	Date Received:	06/18/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1093	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	39.5	2.0	1.6	ppbv		74.4	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	3.0	0.80	0.24	ppbv		13	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	37.0	0.80	0.42	ppbv		133	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.46	0.80	0.38	ppbv	J	2.3	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	1.4	ug/m3
142-82-5	100.2	Heptane	0.83	0.80	0.37	ppbv		3.4	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene ^b	ND	0.80	0.25	ppbv		ND	8.5	2.7	ug/m3
110-54-3	86.18	Hexane	0.79	0.80	0.45	ppbv	J	2.8	2.8	1.6	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	20.2	0.80	0.56	ppbv		49.7	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	5.0	0.80	0.22	ppbv		17	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	12.5	0.80	0.44	ppbv		36.9	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	6.4	0.80	0.29	ppbv		26	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene ^c	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	1.2	0.80	0.47	ppbv		5.1	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	4.7	0.80	0.15	ppbv		26	4.4	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene ^b	ND	0.80	0.48	ppbv		ND	5.9	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	1.3	0.80	0.35	ppbv		6.4	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.42	0.80	0.32	ppbv	J	2.1	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	7.4	0.80	0.37	ppbv		22	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	291 ^d	0.32	0.11	ppbv		1970 ^d	2.2	0.75	ug/m3
109-99-9	72.11	Tetrahydrofuran	46.0	0.80	0.36	ppbv		136	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	18.0	0.80	0.23	ppbv		67.8	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.66	0.16	0.076	ppbv		3.5	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.53	0.80	0.14	ppbv	J	3.0	4.5	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	0.72	ug/m3
108-05-4	86	Vinyl Acetate	3.2	0.80	0.45	ppbv		11	2.8	1.6	ug/m3
	106.2	m,p-Xylene	12.5	0.80	0.56	ppbv		54.3	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	3.6	0.80	0.31	ppbv		16	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	16.1	0.80	0.31	ppbv		69.9	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	100%	65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-INF(061522)		
Lab Sample ID:	JD47017-1	Date Sampled:	06/15/22
Matrix:	AIR - Soil Vapor Comp.	Date Received:	06/18/22
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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- (a) Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias high.
- (b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (c) This compound in blank spike is outside in house QC limits bias low.
- (d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	SVE-EFF(061522)		
Lab Sample ID:	JD47017-2	Date Sampled:	06/15/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1119	Date Received:	06/18/22
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W76676.D	1	06/28/22 05:22	BK	n/a	n/a	V3W3017
Run #2	3W76767.D	2.3	07/01/22 04:59	TCH	n/a	n/a	V3W3020

	Initial Volume
Run #1	10.0 ml
Run #2	5.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	49.5	8.0	5.8	ppbv		118	19	14	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	8.0	3.4	ppbv		ND	18	7.5	ug/m3
71-43-2	78.11	Benzene	ND	8.0	2.5	ppbv		ND	26	8.0	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	8.0	1.2	ppbv		ND	54	8.0	ug/m3
75-25-2	252.8	Bromoform	ND	8.0	2.8	ppbv		ND	83	29	ug/m3
74-83-9	94.94	Bromomethane	ND	8.0	2.8	ppbv		ND	31	11	ug/m3
593-60-2	106.9	Bromoethene	ND	8.0	2.4	ppbv		ND	35	10	ug/m3
100-44-7	126	Benzyl Chloride	ND	8.0	5.0	ppbv		ND	41	26	ug/m3
75-15-0	76.14	Carbon disulfide	ND	8.0	1.8	ppbv		ND	25	5.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	8.0	3.0	ppbv		ND	37	14	ug/m3
75-00-3	64.52	Chloroethane	ND	8.0	2.7	ppbv		ND	21	7.1	ug/m3
67-66-3	119.4	Chloroform	ND	8.0	1.5	ppbv		ND	39	7.3	ug/m3
74-87-3	50.49	Chloromethane	ND	8.0	3.6	ppbv		ND	17	7.4	ug/m3
107-05-1	76.53	3-Chloropropene	ND	8.0	3.3	ppbv		ND	25	10	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	8.0	2.9	ppbv		ND	41	15	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	8.0	1.6	ppbv		ND	50	10	ug/m3
110-82-7	84.16	Cyclohexane	ND	8.0	4.4	ppbv		ND	28	15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	8.0	2.3	ppbv		ND	32	9.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	8.0	2.4	ppbv		ND	32	9.5	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	8.0	3.9	ppbv		ND	61	30	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	8.0	2.8	ppbv		ND	32	11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	8.0	2.5	ppbv		ND	37	12	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	8.0	4.7	ppbv		ND	29	17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	8.0	1.3	ppbv		ND	40	6.4	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	8.0	2.1	ppbv		ND	68	18	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	8.0	2.8	ppbv		ND	32	11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	8.0	3.1	ppbv		ND	32	12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	8.0	2.5	ppbv		ND	36	11	ug/m3
541-73-1	147	m-Dichlorobenzene ^a	ND	8.0	1.6	ppbv		ND	48	9.6	ug/m3
95-50-1	147	o-Dichlorobenzene ^a	ND	8.0	6.2	ppbv		ND	48	37	ug/m3
106-46-7	147	p-Dichlorobenzene ^a	ND	8.0	7.6	ppbv		ND	48	46	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	8.0	4.0	ppbv		ND	36	18	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-EFF(061522)	Date Sampled:	06/15/22
Lab Sample ID:	JD47017-2	Date Received:	06/18/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1119	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	20	16	ppbv		ND	38	30	ug/m3
100-41-4	106.2	Ethylbenzene	ND	8.0	2.4	ppbv		ND	35	10	ug/m3
141-78-6	88	Ethyl Acetate	5.6	8.0	4.2	ppbv	J	20	29	15	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	8.0	3.8	ppbv		ND	39	19	ug/m3
76-13-1	187.4	Freon 113	ND	8.0	1.2	ppbv		ND	61	9.2	ug/m3
76-14-2	170.9	Freon 114	ND	8.0	2.0	ppbv		ND	56	14	ug/m3
142-82-5	100.2	Heptane	ND	8.0	3.7	ppbv		ND	33	15	ug/m3
87-68-3	260.8	Hexachlorobutadiene ^a	ND	8.0	2.5	ppbv		ND	85	27	ug/m3
110-54-3	86.18	Hexane	ND	8.0	4.5	ppbv		ND	28	16	ug/m3
591-78-6	100	2-Hexanone	ND	8.0	5.8	ppbv		ND	33	24	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	8.0	5.6	ppbv		ND	20	14	ug/m3
75-09-2	84.94	Methylene chloride	5.1	8.0	2.2	ppbv	J	18	28	7.6	ug/m3
78-93-3	72.11	Methyl ethyl ketone	16.1	8.0	4.4	ppbv		47.5	24	13	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	8.0	2.9	ppbv		ND	33	12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	8.0	3.2	ppbv		ND	29	12	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	8.0	2.8	ppbv		ND	33	11	ug/m3
115-07-1	42	Propylene ^b	ND	20	5.7	ppbv		ND	34	9.8	ug/m3
100-42-5	104.1	Styrene	ND	8.0	4.7	ppbv		ND	34	20	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	27.8	8.0	1.5	ppbv		152	44	8.2	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	8.0	1.9	ppbv		ND	55	13	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	8.0	1.5	ppbv		ND	44	8.2	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene ^a	ND	8.0	4.8	ppbv		ND	59	36	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	8.0	3.5	ppbv		ND	39	17	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	8.0	3.2	ppbv		ND	39	16	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	8.0	3.8	ppbv		ND	37	18	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	8.0	3.7	ppbv		ND	24	11	ug/m3
127-18-4	165.8	Tetrachloroethylene	5060 ^c	7.4	2.6	ppbv		34300 ^c	50	18	ug/m3
109-99-9	72.11	Tetrahydrofuran	389	8.0	3.6	ppbv		1150	24	11	ug/m3
108-88-3	92.14	Toluene	5.9	8.0	2.3	ppbv	J	22	30	8.7	ug/m3
79-01-6	131.4	Trichloroethylene	5.1	1.6	0.76	ppbv		27	8.6	4.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	8.0	1.4	ppbv		ND	45	7.9	ug/m3
75-01-4	62.5	Vinyl chloride	ND	8.0	2.8	ppbv		ND	20	7.2	ug/m3
108-05-4	86	Vinyl Acetate	ND	8.0	4.5	ppbv		ND	28	16	ug/m3
	106.2	m,p-Xylene	ND	8.0	5.6	ppbv		ND	35	24	ug/m3
95-47-6	106.2	o-Xylene	ND	8.0	3.1	ppbv		ND	35	13	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	8.0	3.1	ppbv		ND	35	13	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	113%	107%	65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-EFF(061522)		
Lab Sample ID:	JD47017-2	Date Sampled:	06/15/22
Matrix:	AIR - Soil Vapor Comp.	Date Received:	06/18/22
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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- (a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (b) This compound in blank spike is outside in house QC limits bias low.
- (c) Result is from Run# 2

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-INF(061622)	Date Sampled:	06/16/22
Lab Sample ID:	JD47017-3	Date Received:	06/18/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A798	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W76677.D	1	06/28/22 06:11	BK	n/a	n/a	V3W3017
Run #2	3W76707.D	1	06/29/22 05:53	TCH	n/a	n/a	V3W3018

	Initial Volume
Run #1	20.0 ml
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	50.1	4.0	2.9	ppbv		119	9.5	6.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	1.7	ppbv		ND	8.8	3.8	ug/m3
71-43-2	78.11	Benzene	5.4	4.0	1.2	ppbv		17	13	3.8	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.60	ppbv		ND	27	4.0	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	1.4	ppbv		ND	41	14	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	1.4	ppbv		ND	16	5.4	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	1.2	ppbv		ND	17	5.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	2.5	ppbv		ND	21	13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	4.0	0.90	ppbv		ND	12	2.8	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	1.5	ppbv		ND	18	6.9	ug/m3
75-00-3	64.52	Chloroethane	ND	4.0	1.4	ppbv		ND	11	3.7	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.74	ppbv		ND	20	3.6	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	1.8	ppbv		ND	8.3	3.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	1.7	ppbv		ND	13	5.3	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	1.4	ppbv		ND	21	7.2	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.80	ppbv		ND	25	5.0	ug/m3
110-82-7	84.16	Cyclohexane	9.3	4.0	2.2	ppbv		32	14	7.6	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	4.0	1.1	ppbv		ND	16	4.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	2.1	4.0	1.2	ppbv	J	8.3	16	4.8	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	4.0	1.9	ppbv		ND	31	15	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	1.2	ppbv		ND	18	5.5	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	2.3	ppbv		ND	14	8.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.64	ppbv		ND	20	3.2	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	1.0	ppbv		ND	34	8.5	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	4.0	1.4	ppbv		ND	16	5.6	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	3.4	4.0	1.5	ppbv	J	13	16	5.9	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	1.2	ppbv		ND	18	5.4	ug/m3
541-73-1	147	m-Dichlorobenzene ^a	ND	4.0	0.80	ppbv		ND	24	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene ^a	ND	4.0	3.1	ppbv		ND	24	19	ug/m3
106-46-7	147	p-Dichlorobenzene ^a	ND	4.0	3.8	ppbv		ND	24	23	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	2.0	ppbv		ND	18	9.1	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-INF(061622)	Date Sampled:	06/16/22
Lab Sample ID:	JD47017-3	Date Received:	06/18/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A798	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	74.1	10	7.9	ppbv		140	19	15	ug/m3
100-41-4	106.2	Ethylbenzene	11.2	4.0	1.2	ppbv		48.6	17	5.2	ug/m3
141-78-6	88	Ethyl Acetate	178	4.0	2.1	ppbv		641	14	7.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	4.0	1.9	ppbv		ND	20	9.3	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.62	ppbv		ND	31	4.8	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	1.0	ppbv		ND	28	7.0	ug/m3
142-82-5	100.2	Heptane	3.4	4.0	1.8	ppbv	J	14	16	7.4	ug/m3
87-68-3	260.8	Hexachlorobutadiene ^a	ND	4.0	1.2	ppbv		ND	43	13	ug/m3
110-54-3	86.18	Hexane	2.5	4.0	2.2	ppbv	J	8.8	14	7.8	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	2.9	ppbv		ND	16	12	ug/m3
67-63-0	60.1	Isopropyl Alcohol	31.1	4.0	2.8	ppbv		76.4	9.8	6.9	ug/m3
75-09-2	84.94	Methylene chloride	12.4	4.0	1.1	ppbv		43.1	14	3.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	33.8	4.0	2.2	ppbv		99.7	12	6.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	10.3	4.0	1.5	ppbv		42.2	16	6.1	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	1.6	ppbv		ND	14	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
115-07-1	42	Propylene ^b	ND	10	2.8	ppbv		ND	17	4.8	ug/m3
100-42-5	104.1	Styrene	ND	4.0	2.4	ppbv		ND	17	10	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	8.3	4.0	0.74	ppbv		45	22	4.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	4.0	0.96	ppbv		ND	27	6.6	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.76	ppbv		ND	22	4.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene ^a	ND	4.0	2.4	ppbv		ND	30	18	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	2.9	4.0	1.7	ppbv	J	14	20	8.4	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	4.0	1.6	ppbv		ND	20	7.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	4.0	1.9	ppbv		ND	19	8.9	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	8.2	4.0	1.9	ppbv		25	12	5.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	1560 ^c	1.6	0.56	ppbv		10600 ^c	11	3.8	ug/m3
109-99-9	72.11	Tetrahydrofuran	41.8	4.0	1.8	ppbv		123	12	5.3	ug/m3
108-88-3	92.14	Toluene	75.6	4.0	1.1	ppbv		285	15	4.1	ug/m3
79-01-6	131.4	Trichloroethylene	3.9	0.80	0.38	ppbv		21	4.3	2.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.72	ppbv		ND	22	4.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	1.4	ppbv		ND	10	3.6	ug/m3
108-05-4	86	Vinyl Acetate	5.7	4.0	2.2	ppbv		20	14	7.7	ug/m3
	106.2	m,p-Xylene	42.4	4.0	2.8	ppbv		184	17	12	ug/m3
95-47-6	106.2	o-Xylene	11.7	4.0	1.5	ppbv		50.8	17	6.5	ug/m3
1330-20-7	106.2	Xylenes (total)	54.0	4.0	1.5	ppbv		235	17	6.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	97%	65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-INF(061622)		
Lab Sample ID:	JD47017-3	Date Sampled:	06/16/22
Matrix:	AIR - Soil Vapor Comp.	Date Received:	06/18/22
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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- (a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (b) This compound in blank spike is outside in house QC limits bias low.
- (c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3
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Report of Analysis

Client Sample ID:	SVE-EFF(061622)		
Lab Sample ID:	JD47017-4	Date Sampled:	06/16/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A604	Date Received:	06/18/22
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W76678.D	1	06/28/22 06:59	BK	n/a	n/a	V3W3017
Run #2	3W76708.D	1	06/29/22 06:31	TCH	n/a	n/a	V3W3018

	Initial Volume
Run #1	20.0 ml
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	53.8	4.0	2.9	ppbv		128	9.5	6.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.0	1.7	ppbv		ND	8.8	3.8	ug/m3
71-43-2	78.11	Benzene	98.5	4.0	1.2	ppbv		315	13	3.8	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.0	0.60	ppbv		ND	27	4.0	ug/m3
75-25-2	252.8	Bromoform	ND	4.0	1.4	ppbv		ND	41	14	ug/m3
74-83-9	94.94	Bromomethane	ND	4.0	1.4	ppbv		ND	16	5.4	ug/m3
593-60-2	106.9	Bromoethene	ND	4.0	1.2	ppbv		ND	17	5.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.0	2.5	ppbv		ND	21	13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	4.0	0.90	ppbv		ND	12	2.8	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.0	1.5	ppbv		ND	18	6.9	ug/m3
75-00-3	64.52	Chloroethane	ND	4.0	1.4	ppbv		ND	11	3.7	ug/m3
67-66-3	119.4	Chloroform	ND	4.0	0.74	ppbv		ND	20	3.6	ug/m3
74-87-3	50.49	Chloromethane	ND	4.0	1.8	ppbv		ND	8.3	3.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.0	1.7	ppbv		ND	13	5.3	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.0	1.4	ppbv		ND	21	7.2	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.0	0.80	ppbv		ND	25	5.0	ug/m3
110-82-7	84.16	Cyclohexane	2.8	4.0	2.2	ppbv	J	9.6	14	7.6	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	4.0	1.1	ppbv		ND	16	4.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	2.1	4.0	1.2	ppbv	J	8.3	16	4.8	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	4.0	1.9	ppbv		ND	31	15	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.0	1.2	ppbv		ND	18	5.5	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.0	2.3	ppbv		ND	14	8.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.0	0.64	ppbv		ND	20	3.2	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.0	1.0	ppbv		ND	34	8.5	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	2.1	4.0	1.4	ppbv	J	8.3	16	5.6	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	3.0	4.0	1.5	ppbv	J	12	16	5.9	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.0	1.2	ppbv		ND	18	5.4	ug/m3
541-73-1	147	m-Dichlorobenzene ^a	ND	4.0	0.80	ppbv		ND	24	4.8	ug/m3
95-50-1	147	o-Dichlorobenzene ^a	ND	4.0	3.1	ppbv		ND	24	19	ug/m3
106-46-7	147	p-Dichlorobenzene ^a	ND	4.0	3.8	ppbv		ND	24	23	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.0	2.0	ppbv		ND	18	9.1	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-EFF(061622)	Date Sampled:	06/16/22
Lab Sample ID:	JD47017-4	Date Received:	06/18/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A604	Percent Solids:	n/a
Method:	TO-15		
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	30.8	10	7.9	ppbv		58.0	19	15	ug/m3
100-41-4	106.2	Ethylbenzene	24.2	4.0	1.2	ppbv		105	17	5.2	ug/m3
141-78-6	88	Ethyl Acetate	7.9	4.0	2.1	ppbv		28	14	7.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	6.0	4.0	1.9	ppbv		29	20	9.3	ug/m3
76-13-1	187.4	Freon 113	ND	4.0	0.62	ppbv		ND	31	4.8	ug/m3
76-14-2	170.9	Freon 114	ND	4.0	1.0	ppbv		ND	28	7.0	ug/m3
142-82-5	100.2	Heptane	5.1	4.0	1.8	ppbv		21	16	7.4	ug/m3
87-68-3	260.8	Hexachlorobutadiene ^a	ND	4.0	1.2	ppbv		ND	43	13	ug/m3
110-54-3	86.18	Hexane	2.2	4.0	2.2	ppbv	J	7.8	14	7.8	ug/m3
591-78-6	100	2-Hexanone	ND	4.0	2.9	ppbv		ND	16	12	ug/m3
67-63-0	60.1	Isopropyl Alcohol	4.8	4.0	2.8	ppbv		12	9.8	6.9	ug/m3
75-09-2	84.94	Methylene chloride	5.3	4.0	1.1	ppbv		18	14	3.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	25.7	4.0	2.2	ppbv		75.8	12	6.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.0	1.5	ppbv		ND	16	6.1	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.0	1.6	ppbv		ND	14	5.8	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.0	1.4	ppbv		ND	16	5.7	ug/m3
115-07-1	42	Propylene ^b	5.8	10	2.8	ppbv	J	10	17	4.8	ug/m3
100-42-5	104.1	Styrene	ND	4.0	2.4	ppbv		ND	17	10	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	7.9	4.0	0.74	ppbv		43	22	4.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	4.0	0.96	ppbv		ND	27	6.6	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.0	0.76	ppbv		ND	22	4.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene ^a	ND	4.0	2.4	ppbv		ND	30	18	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	14.4	4.0	1.7	ppbv		70.8	20	8.4	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	5.1	4.0	1.6	ppbv		25	20	7.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	3.0	4.0	1.9	ppbv	J	14	19	8.9	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	4.0	1.9	ppbv		ND	12	5.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	1910 ^c	1.6	0.56	ppbv		13000 ^c	11	3.8	ug/m3
109-99-9	72.11	Tetrahydrofuran	33.4	4.0	1.8	ppbv		98.5	12	5.3	ug/m3
108-88-3	92.14	Toluene	101	4.0	1.1	ppbv		381	15	4.1	ug/m3
79-01-6	131.4	Trichloroethylene	5.9	0.80	0.38	ppbv		32	4.3	2.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.0	0.72	ppbv		ND	22	4.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.0	1.4	ppbv		ND	10	3.6	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.0	2.2	ppbv		ND	14	7.7	ug/m3
	106.2	m,p-Xylene	98.1	4.0	2.8	ppbv		426	17	12	ug/m3
95-47-6	106.2	o-Xylene	33.2	4.0	1.5	ppbv		144	17	6.5	ug/m3
1330-20-7	106.2	Xylenes (total)	131	4.0	1.5	ppbv		569	17	6.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%	97%	65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SVE-EFF(061622)		
Lab Sample ID:	JD47017-4	Date Sampled:	06/16/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A604	Date Received:	06/18/22
Method:	TO-15	Percent Solids:	n/a
Project:	AECOMSCG: Delavan Spray Technologies; Bamberg, SC		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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- (a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (b) This compound in blank spike is outside in house QC limits bias low.
- (c) Result is from Run# 2

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

4.4
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log



PAGE 1 OF 1

FED-EX Tracking # 5772-6642-2650	Order Control # BW-0262-214
SGS Quote #	SGS Job # JD47017

Company Name AECOM		Project Name Delaware SVF		Temperature (Fahrenheit)		Requested Analysis											
Address 5438 Wade Park Blvd, Suite 200		Street 4334 Main Hwy		Start: 100 Maximum: 100		Seg. Email TO-15 limited list											
City Raleigh State NC Zip 27607		City Bamberg State SC		Stop: 88 Minimum: 88													
Project Contact Conan Fitzgerald E-mail conan.fitzgerald@aecom.com		Project # 1606755-02		Atmospheric Pressure (inches of Hg) Start: 29.76 Maximum: 29.90													
Phone # (919) 461-1100 Fax 142.705@aecom.com		Client Purchase Order #		Stop: 29.90 Minimum: 29.76													
Sampler(s) Name(s) Fan Pos				Other weather comment:													
Air Type		Sampling Equipment Info		Start Sampling Information		Stop Sampling Information											
Lab Sample #	Field ID / Point of Collection	Ind (I) Soil Vap (SV) Amb (A)	Res (R) Non-Res (NR)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	
1	SVE-INF (061522)	SV	NR	A502	1L	FC162	6/15/22	1637	-30	100	ISR	6/15/22	1649	-4	99	ISR	✓
2	SVE-EFF (061522)	SV	NR	A1119	1L	FL784	6/15/22	1655	-28	99	ISR	6/15/22	1701	-3	99	ISR	✓
3	SVE-INF (061622)	SV	NR	A798	1L	FL573	6/16/22	1130	-28	88	ISR	6/16/22	1134	-5	88	ISR	✓
4	SVE-EFF (061622)	SV	NR	A604	1L	FL014	6/16/22	1135	-27	8	ISR	6/16/22	1140	-5	88	ISR	✓
Turnaround Time (Business days)		Approved By:		Data Deliverable Information		Comments / Remarks											
15 Business Days 10 Business Days 5 Business Days 3 Business Days * 2 Business Days * 1 Business Day * Other:		Date:		All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: OKQP reporting		Sample inventory is verified upon receipt in the Laboratory											
Relinquished by Laboratory: 6/16/22 8:20 Relinquished by: 6/18/22 11:00 Relinquished by:								Relinquished by: 6/17/22 1400 Relinquished by: 6/17/22 Custody Seal									

<http://www.sgs.com/en/terms-and-conditions>

Initial Assessment NA C4B
Label Verification

JD47017: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: JD47017

Client: AECOM, INC.

Project: AECOMSCG: DELAVAN SPRAY TECHNO

Date / Time Received: 6/18/2022 11:00:00 AM

Delivery Method:
Airbill #s:
Cooler Temps (Raw Measured) °C:
Cooler Temps (Corrected) °C:
Cooler Security
Y or N
Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | ☒ | ☐ | 3. COC Present: | ☒ | ☐ |
| 2. Custody Seals Intact: | ☒ | ☐ | 4. Smpl Dates/Time OK | ☒ | ☐ |

Cooler Temperature
Y or N

- | | | |
|------------------------------|--------------------------|--------------------------|
| 1. Temp criteria achieved: | ☐ | ☐ |
| 2. Cooler temp verification: | N/A | |
| 3. Cooler media: | N/A | |
| 4. No. Coolers: | N/A | |

Quality Control Preservation
Y or N
N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | ☐ | ☐ | ☒ |
| 2. Trip Blank listed on COC: | ☐ | ☐ | ☒ |
| 3. Samples preserved properly: | ☒ | ☐ | |
| 4. VOCs headspace free: | ☐ | ☐ | ☒ |

Sample Integrity - Documentation
Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | ☒ | ☐ |
| 2. Container labeling complete: | ☒ | ☐ |
| 3. Sample container label / COC agree: | ☒ | ☐ |

Sample Integrity - Condition
Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | ☒ | ☐ |
| 2. All containers accounted for: | ☒ | ☐ |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions
Y or N
N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | ☒ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☒ | |
| 3. Sufficient volume recvd for analysis: | ☒ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☒ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☒ |

Test Strip Lot #s:	pH 1-12: 231619	pH 12+: 203117A	Other: (Specify)
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Comments

SM089-03
Rev. Date 12/7/17

JD47017: Chain of Custody

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Summa Canister and Flow Controller Log

Page 1 of 1

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Received: 06/18/22

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1093	6	29.4	08/10/18	RC	CP9918	5W32103.D	JD47017-1	06/22/22	ML				1
A1119	1	29.4	06/08/22	CB	CP11653	2W59102.D	JD47017-2	06/22/22	ML	2			1
A798	1	29.4	06/08/22	CB	CP11718	2W59261.D	JD47017-3	06/22/22	ML	4.5			1
A604	1	29.4	06/08/22	CB	CP11760	2W59688.D	JD47017-4	06/22/22	ML	7			1

FLOW CONTROLLERS / OTHER										
Shipping					Receiving					
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type	
FC162	06/08/22	CB	183	.08	06/29/22	ML	190	3.8	Flow Controller	
FC573	06/08/22	CB	185	.08	06/29/22	ML	193	4.2	Flow Controller	
FC784	06/08/22	CB	185	.08	06/29/22	ML	188	1.6	Flow Controller	
FC1014	06/08/22	CB	187	.08	06/29/22	ML	180	3.8	Flow Controller	

SGS Bottle Order(s):

BW-06622-214

MJ-081018-56

Prep Date	Room Temp(F)	Bar Pres "Hg
08/10/18	70	29.92
06/08/22	70	29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 3

Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-MB	3W76659.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples:**Method:** TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Page 2 of 3

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-MB	3W76659.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples:

Method: TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	114% 65-128%

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-MB	3W76659.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: Method:

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	4.23	17	ppbv	JN
	system artifact	23.86	.33	ppbv	J
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3018-MB	3W76688.D	1	06/28/22	TCH	n/a	n/a	V3W3018

The QC reported here applies to the following samples: Method: TO-15

JD47017-1, JD47017-3, JD47017-4

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	106% 65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	4.23	22	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-MB	3W76747.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: Method: TO-15

JD47017-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	109% 65-128%

Method Blank Summary

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Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-MB	6W24835.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples:**Method:** TO-15

V6W1064-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-MB	6W24835.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples:**Method:** TO-15

V6W1064-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-MB	6W24835.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: Method: TO-15

V6W1064-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	100% 65-128%

Method Blank Summary

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Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-MB	2W59241.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples:**Method:** TO-15

V2W2635-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-MB	2W59241.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples:**Method:** TO-15

V2W2635-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-MB	2W59241.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: Method: TO-15

V2W2635-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	95% 65-128%

Method Blank Summary

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Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-MB	2W59677.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples:**Method:** TO-15

V2W2652-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Page 2 of 3

Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-MB	2W59677.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples:**Method:** TO-15

V2W2652-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-MB	2W59677.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples: Method: TO-15

V2W2652-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	96% 65-128%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-BS	3W76655.D	1	06/27/22	BK	n/a	n/a	V3W3017
V3W3017-BSD	3W76656.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples:

Method: TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	7.6	76	7.7	77	1	70-130/30
106-99-0	1,3-Butadiene	10	8.9	89	8.9	89	0	70-130/30
71-43-2	Benzene	10	9.4	94	9.5	95	1	70-130/30
75-27-4	Bromodichloromethane	10	9.6	96	9.6	96	0	70-130/30
75-25-2	Bromoform	10	12.6	126	12.5	125	1	70-130/30
74-83-9	Bromomethane	10	10.4	104	10.4	104	0	70-130/30
593-60-2	Bromoethene	10	11.1	111	11.1	111	0	70-130/30
100-44-7	Benzyl Chloride	10	10.2	102	10.1	101	1	70-130/30
75-15-0	Carbon disulfide	10	8.9	89	9.0	90	1	70-130/30
108-90-7	Chlorobenzene	10	11.7	117	11.8	118	1	70-130/30
75-00-3	Chloroethane	10	10.6	106	10.6	106	0	70-130/30
67-66-3	Chloroform	10	8.7	87	8.8	88	1	70-130/30
74-87-3	Chloromethane	10	8.3	83	8.3	83	0	70-130/30
107-05-1	3-Chloropropene	10	8.8	88	8.8	88	0	70-130/30
95-49-8	2-Chlorotoluene	10	12.6	126	12.6	126	0	70-130/30
56-23-5	Carbon tetrachloride	10	8.6	86	8.6	86	0	70-130/30
110-82-7	Cyclohexane	10	8.8	88	8.9	89	1	70-130/30
75-34-3	1,1-Dichloroethane	10	8.1	81	8.1	81	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.3	93	9.4	94	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.1	111	11.1	111	0	70-130/30
107-06-2	1,2-Dichloroethane	10	8.7	87	8.7	87	0	70-130/30
78-87-5	1,2-Dichloropropane	10	8.1	81	8.2	82	1	70-130/30
123-91-1	1,4-Dioxane	10	10.7	107	10.8	108	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.7	87	8.6	86	1	70-130/30
124-48-1	Dibromochloromethane	10	11.2	112	11.2	112	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.2	92	9.3	93	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.1	91	9.3	93	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.0	90	9.1	91	1	70-130/30
541-73-1	m-Dichlorobenzene	10	14.7	147* a	14.7	147* a	0	70-130/30
95-50-1	o-Dichlorobenzene	10	15.1	151* a	15.1	151* a	0	70-130/30
106-46-7	p-Dichlorobenzene	10	14.8	148* a	14.7	147* a	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.2	92	9.2	92	0	70-130/30
64-17-5	Ethanol	10	9.4	94	9.4	94	0	70-130/30
100-41-4	Ethylbenzene	10	10.8	108	10.9	109	1	70-130/30
141-78-6	Ethyl Acetate	10	8.0	80	8.0	80	0	70-130/30
622-96-8	4-Ethyltoluene	10	12.4	124	12.2	122	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-BS	3W76655.D	1	06/27/22	BK	n/a	n/a	V3W3017
V3W3017-BSD	3W76656.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples:

Method: TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.4	104	10.3	103	1	70-130/30
76-14-2	Freon 114	10	10.2	102	10.2	102	0	70-130/30
142-82-5	Heptane	10	7.4	74	7.4	74	0	70-130/30
87-68-3	Hexachlorobutadiene	10	16.0	160* a	15.9	159* a	1	70-130/30
110-54-3	Hexane	10	7.5	75	7.6	76	1	70-130/30
591-78-6	2-Hexanone	10	9.7	97	9.7	97	0	70-130/30
67-63-0	Isopropyl Alcohol	10	8.4	84	8.4	84	0	70-130/30
75-09-2	Methylene chloride	10	8.6	86	8.7	87	1	70-130/30
78-93-3	Methyl ethyl ketone	10	8.7	87	8.8	88	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.5	85	8.6	86	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.8	88	8.9	89	1	70-130/30
80-62-6	Methylmethacrylate	10	9.2	92	9.3	93	1	70-130/30
115-07-1	Propylene	10	6.9	69* b	6.9	69* b	0	70-130/30
100-42-5	Styrene	10	12.2	122	12.1	121	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.5	85	8.6	86	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.3	113	11.2	112	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.7	97	9.8	98	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	19.9	199* a	19.9	199* a	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.5	125	12.5	125	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.7	117	11.6	116	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.0	80	8.1	81	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.1	101	10.2	102	1	70-130/30
109-99-9	Tetrahydrofuran	10	8.6	86	8.7	87	1	70-130/30
108-88-3	Toluene	10	10.0	100	10.1	101	1	70-130/30
79-01-6	Trichloroethylene	10	9.9	99	9.9	99	0	70-130/30
75-69-4	Trichlorofluoromethane	10	8.8	88	8.8	88	0	70-130/30
75-01-4	Vinyl chloride	10	10.2	102	10.2	102	0	70-130/30
108-05-4	Vinyl Acetate	10	10.8	108	10.9	109	1	70-130/30
	m,p-Xylene	20	23.5	118	23.6	118	0	70-130/30
95-47-6	o-Xylene	10	11.7	117	11.7	117	0	70-130/30
1330-20-7	Xylenes (total)	30	35.3	118	35.3	118	0	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	111%	112%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3017-BS	3W76655.D	1	06/27/22	BK	n/a	n/a	V3W3017
V3W3017-BSD	3W76656.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: Method: TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

- (a) High percent recovery and no associated positive reported in the QC batch.
- (b) Outside in house control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3018-BS	3W76685.D	1	06/28/22	TCH	n/a	n/a	V3W3018
V3W3018-BSD	3W76686.D	1	06/28/22	TCH	n/a	n/a	V3W3018

The QC reported here applies to the following samples: Method: TO-15

JD47017-1, JD47017-3, JD47017-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	10	10.7	107	10.6	106	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	103%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W3020-BS	3W76742.D	1	06/30/22	TCH	n/a	n/a	V3W3020
V3W3020-BSD	3W76745.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: Method: TO-15

JD47017-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	10	11.7	117	11.2	112	4	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	114%	107%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-BS	6W24832.D	1	04/11/22	TCH	n/a	n/a	V6W1064
V6W1064-BSD	6W24833.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples:

Method: TO-15

V6W1064-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	7.2	72	7.3	73	1	70-130/30
106-99-0	1,3-Butadiene	10	9.6	96	10.1	101	5	70-130/30
71-43-2	Benzene	10	10.7	107	10.6	106	1	70-130/30
75-27-4	Bromodichloromethane	10	11.4	114	11.6	116	2	70-130/30
75-25-2	Bromoform	10	13.5	135* a	14.2	142* a	5	70-130/30
74-83-9	Bromomethane	10	9.7	97	10.2	102	5	70-130/30
593-60-2	Bromoethene	10	10.2	102	10.8	108	6	70-130/30
100-44-7	Benzyl Chloride	10	9.8	98	10.5	105	7	70-130/30
75-15-0	Carbon disulfide	10	9.7	97	9.5	95	2	70-130/30
108-90-7	Chlorobenzene	10	9.0	90	9.1	91	1	70-130/30
75-00-3	Chloroethane	10	9.5	95	9.9	99	4	70-130/30
67-66-3	Chloroform	10	11.4	114	11.4	114	0	70-130/30
74-87-3	Chloromethane	10	8.2	82	8.6	86	5	70-130/30
107-05-1	3-Chloropropene	10	10.8	108	10.6	106	2	70-130/30
95-49-8	2-Chlorotoluene	10	11.1	111	11.6	116	4	70-130/30
56-23-5	Carbon tetrachloride	10	13.9	139* a	14.3	143* a	3	70-130/30
110-82-7	Cyclohexane	10	12.3	123	12.0	120	2	70-130/30
75-34-3	1,1-Dichloroethane	10	10.7	107	10.5	105	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	12.4	124	12.3	123	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.9	109	11.3	113	4	70-130/30
107-06-2	1,2-Dichloroethane	10	14.1	141* a	14.4	144* a	2	70-130/30
78-87-5	1,2-Dichloropropane	10	10.1	101	9.9	99	2	70-130/30
123-91-1	1,4-Dioxane	10	8.3	83	8.3	83	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.8	118	12.5	125	6	70-130/30
124-48-1	Dibromochloromethane	10	12.6	126	13.2	132* a	5	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	11.7	117	11.4	114	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	12.3	123	12.1	121	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	11.9	119	12.0	120	1	70-130/30
541-73-1	m-Dichlorobenzene	10	11.6	116	12.3	123	6	70-130/30
95-50-1	o-Dichlorobenzene	10	11.6	116	12.3	123	6	70-130/30
106-46-7	p-Dichlorobenzene	10	11.8	118	12.5	125	6	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	13.0	130	13.2	132* a	2	70-130/30
64-17-5	Ethanol	10	7.5	75	8.0	80	6	70-130/30
100-41-4	Ethylbenzene	10	11.3	113	11.4	114	1	70-130/30
141-78-6	Ethyl Acetate	10	10.5	105	10.3	103	2	70-130/30
622-96-8	4-Ethyltoluene	10	10.6	106	11.2	112	6	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-BS	6W24832.D	1	04/11/22	TCH	n/a	n/a	V6W1064
V6W1064-BSD	6W24833.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples:

Method: TO-15

V6W1064-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.2	102	10.3	103	1	70-130/30
76-14-2	Freon 114	10	11.1	111	11.6	116	4	70-130/30
142-82-5	Heptane	10	11.5	115	11.7	117	2	70-130/30
87-68-3	Hexachlorobutadiene	10	12.8	128	14.1	141* a	10	70-130/30
110-54-3	Hexane	10	10.9	109	10.8	108	1	70-130/30
591-78-6	2-Hexanone	10	10.5	105	10.6	106	1	70-130/30
67-63-0	Isopropyl Alcohol	10	7.9	79	8.3	83	5	70-130/30
75-09-2	Methylene chloride	10	8.7	87	8.6	86	1	70-130/30
78-93-3	Methyl ethyl ketone	10	10.4	104	10.1	101	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.3	113	11.3	113	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	13.5	135* a	13.4	134* a	1	70-130/30
80-62-6	Methylmethacrylate	10	12.2	122	12.1	121	1	70-130/30
115-07-1	Propylene	10	13.1	131* a	13.7	137* a	4	70-130/30
100-42-5	Styrene	10	10.9	109	11.1	111	2	70-130/30
71-55-6	1,1,1-Trichloroethane	10	12.6	126	12.7	127	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	8.6	86	8.8	88	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10	100	10.1	101	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.3	93	10.2	102	9	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.1	101	10.7	107	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.9	119	12.4	124	4	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.9	109	10.9	109	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	12.6	126	12.8	128	2	70-130/30
127-18-4	Tetrachloroethylene	10	13.6	136* a	14.4	144* a	6	70-130/30
109-99-9	Tetrahydrofuran	10	11.6	116	11.3	113	3	70-130/30
108-88-3	Toluene	10	11.7	117	12.0	120	3	70-130/30
79-01-6	Trichloroethylene	10	10.7	107	10.9	109	2	70-130/30
75-69-4	Trichlorofluoromethane	10	12.0	120	12.9	129	7	70-130/30
75-01-4	Vinyl chloride	10	9.6	96	10.0	100	4	70-130/30
108-05-4	Vinyl Acetate	10	13.2	132* a	13.1	131* a	1	70-130/30
	m,p-Xylene	20	21.7	109	23.9	120	10	70-130/30
95-47-6	o-Xylene	10	11.1	111	11.5	115	4	70-130/30
1330-20-7	Xylenes (total)	30	32.8	109	35.4	118	8	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-BS	6W24832.D	1	04/11/22	TCH	n/a	n/a	V6W1064
V6W1064-BSD	6W24833.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here applies to the following samples: Method: TO-15

V6W1064-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	100%	65-128%

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-BS	2W59238.D	1	05/12/22	TCH	n/a	n/a	V2W2635
V2W2635-BSD	2W59239.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples:

Method: TO-15

V2W2635-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.4	84	8.7	87	4	70-130/30
106-99-0	1,3-Butadiene	10	9.4	94	9.9	99	5	70-130/30
71-43-2	Benzene	10	10.6	106	10.5	105	1	70-130/30
75-27-4	Bromodichloromethane	10	10.5	105	10.6	106	1	70-130/30
75-25-2	Bromoform	10	11.4	114	11.5	115	1	70-130/30
74-83-9	Bromomethane	10	9.4	94	9.6	96	2	70-130/30
593-60-2	Bromoethene	10	9.8	98	9.9	99	1	70-130/30
100-44-7	Benzyl Chloride	10	9.7	97	9.9	99	2	70-130/30
75-15-0	Carbon disulfide	10	9.7	97	9.8	98	1	70-130/30
108-90-7	Chlorobenzene	10	9.9	99	10	100	1	70-130/30
75-00-3	Chloroethane	10	9.3	93	9.5	95	2	70-130/30
67-66-3	Chloroform	10	10.2	102	10.5	105	3	70-130/30
74-87-3	Chloromethane	10	8.5	85	8.9	89	5	70-130/30
107-05-1	3-Chloropropene	10	9.2	92	9.2	92	0	70-130/30
95-49-8	2-Chlorotoluene	10	10.5	105	10.7	107	2	70-130/30
56-23-5	Carbon tetrachloride	10	11.6	116	11.8	118	2	70-130/30
110-82-7	Cyclohexane	10	9.9	99	9.8	98	1	70-130/30
75-34-3	1,1-Dichloroethane	10	10.1	101	10.3	103	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.8	98	9.9	99	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.9	99	10.1	101	2	70-130/30
107-06-2	1,2-Dichloroethane	10	11.3	113	11.6	116	3	70-130/30
78-87-5	1,2-Dichloropropane	10	9.5	95	9.6	96	1	70-130/30
123-91-1	1,4-Dioxane	10	9.3	93	9.4	94	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.3	93	9.7	97	4	70-130/30
124-48-1	Dibromochloromethane	10	10.5	105	10.6	106	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.7	97	9.7	97	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.7	97	9.8	98	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.7	97	9.7	97	0	70-130/30
541-73-1	m-Dichlorobenzene	10	11.0	110	11.2	112	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.3	113	11.5	115	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10.7	107	10.9	109	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.6	96	9.7	97	1	70-130/30
64-17-5	Ethanol	10	9.1	91	9.5	95	4	70-130/30
100-41-4	Ethylbenzene	10	10.4	104	10.3	103	1	70-130/30
141-78-6	Ethyl Acetate	10	9.1	91	9.5	95	4	70-130/30
622-96-8	4-Ethyltoluene	10	11.1	111	11.4	114	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-BS	2W59238.D	1	05/12/22	TCH	n/a	n/a	V2W2635
V2W2635-BSD	2W59239.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples:

Method: TO-15

V2W2635-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.2	102	10.5	105	3	70-130/30
76-14-2	Freon 114	10	10.0	100	10	100	0	70-130/30
142-82-5	Heptane	10	10.5	105	10.8	108	3	70-130/30
87-68-3	Hexachlorobutadiene	10	12.1	121	12.4	124	2	70-130/30
110-54-3	Hexane	10	9.5	95	9.8	98	3	70-130/30
591-78-6	2-Hexanone	10	9.7	97	9.9	99	2	70-130/30
67-63-0	Isopropyl Alcohol	10	9.2	92	9.7	97	5	70-130/30
75-09-2	Methylene chloride	10	8.0	80	8.1	81	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.3	93	9.3	93	0	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.9	99	10.0	100	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.1	101	10.3	103	2	70-130/30
80-62-6	Methylmethacrylate	10	9.4	94	9.5	95	1	70-130/30
115-07-1	Propylene	10	9.5	95	10	100	5	70-130/30
100-42-5	Styrene	10	10.3	103	10.3	103	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.8	108	11.2	112	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.9	109	11.0	110	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.9	99	10.1	101	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.7	97	9.9	99	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.7	117	11.8	118	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.4	114	11.7	117	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.1	101	10.3	103	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.7	107	11.2	112	5	70-130/30
127-18-4	Tetrachloroethylene	10	10.8	108	10.9	109	1	70-130/30
109-99-9	Tetrahydrofuran	10	9.2	92	9.4	94	2	70-130/30
108-88-3	Toluene	10	9.8	98	9.9	99	1	70-130/30
79-01-6	Trichloroethylene	10	10.2	102	10.3	103	1	70-130/30
75-69-4	Trichlorofluoromethane	10	11.1	111	11.4	114	3	70-130/30
75-01-4	Vinyl chloride	10	9.4	94	9.7	97	3	70-130/30
108-05-4	Vinyl Acetate	10	9.7	97	9.9	99	2	70-130/30
	m,p-Xylene	20	21.6	108	21.9	110	1	70-130/30
95-47-6	o-Xylene	10	10.9	109	11.0	110	1	70-130/30
1330-20-7	Xylenes (total)	30	32.5	108	32.9	110	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-BS	2W59238.D	1	05/12/22	TCH	n/a	n/a	V2W2635
V2W2635-BSD	2W59239.D	1	05/12/22	TCH	n/a	n/a	V2W2635

The QC reported here applies to the following samples: Method: TO-15

V2W2635-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	104%	105%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-BS	2W59674.D	1	05/31/22	TCH	n/a	n/a	V2W2652
V2W2652-BSD	2W59675.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples:

Method: TO-15

V2W2652-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.6	96	9.2	92	4	70-130/30
106-99-0	1,3-Butadiene	10	10.4	104	10.4	104	0	70-130/30
71-43-2	Benzene	10	9.2	92	9.5	95	3	70-130/30
75-27-4	Bromodichloromethane	10	11.0	110	11.0	110	0	70-130/30
75-25-2	Bromoform	10	12.4	124	12.7	127	2	70-130/30
74-83-9	Bromomethane	10	9.6	96	9.7	97	1	70-130/30
593-60-2	Bromoethene	10	10.0	100	10.1	101	1	70-130/30
100-44-7	Benzyl Chloride	10	13.5	135* a	13.7	137* a	1	70-130/30
75-15-0	Carbon disulfide	10	10.2	102	10.2	102	0	70-130/30
108-90-7	Chlorobenzene	10	11.0	110	11.1	111	1	70-130/30
75-00-3	Chloroethane	10	9.8	98	9.8	98	0	70-130/30
67-66-3	Chloroform	10	10.4	104	10.5	105	1	70-130/30
74-87-3	Chloromethane	10	9.8	98	9.9	99	1	70-130/30
107-05-1	3-Chloropropene	10	10.5	105	10.4	104	1	70-130/30
95-49-8	2-Chlorotoluene	10	11.3	113	11.5	115	2	70-130/30
56-23-5	Carbon tetrachloride	10	10.3	103	10.7	107	4	70-130/30
110-82-7	Cyclohexane	10	10.2	102	10.6	106	4	70-130/30
75-34-3	1,1-Dichloroethane	10	10.6	106	10.8	108	2	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.1	101	10.2	102	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	11.2	112	11.0	110	2	70-130/30
107-06-2	1,2-Dichloroethane	10	10.1	101	10.2	102	1	70-130/30
78-87-5	1,2-Dichloropropane	10	10.1	101	10.2	102	1	70-130/30
123-91-1	1,4-Dioxane	10	10.2	102	10	100	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.7	87	8.6	86	1	70-130/30
124-48-1	Dibromochloromethane	10	12.0	120	11.8	118	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.1	101	10.2	102	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.2	102	10.3	103	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.7	107	10.7	107	0	70-130/30
541-73-1	m-Dichlorobenzene	10	12.1	121	12.4	124	2	70-130/30
95-50-1	o-Dichlorobenzene	10	12.5	125	12.7	127	2	70-130/30
106-46-7	p-Dichlorobenzene	10	12.0	120	12.2	122	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.1	111	11.3	113	2	70-130/30
64-17-5	Ethanol	10	9.2	92	9.2	92	0	70-130/30
100-41-4	Ethylbenzene	10	11.1	111	11.2	112	1	70-130/30
141-78-6	Ethyl Acetate	10	11.3	113	11.5	115	2	70-130/30
622-96-8	4-Ethyltoluene	10	12.2	122	12.5	125	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-BS	2W59674.D	1	05/31/22	TCH	n/a	n/a	V2W2652
V2W2652-BSD	2W59675.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples:

Method: TO-15

V2W2652-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.2	102	10.3	103	1	70-130/30
76-14-2	Freon 114	10	9.9	99	10.1	101	2	70-130/30
142-82-5	Heptane	10	11.5	115	11.6	116	1	70-130/30
87-68-3	Hexachlorobutadiene	10	13.6	136* a	13.6	136* a	0	70-130/30
110-54-3	Hexane	10	10.8	108	11.1	111	3	70-130/30
591-78-6	2-Hexanone	10	11.2	112	11.0	110	2	70-130/30
67-63-0	Isopropyl Alcohol	10	11.3	113	11.1	111	2	70-130/30
75-09-2	Methylene chloride	10	9.2	92	9.3	93	1	70-130/30
78-93-3	Methyl ethyl ketone	10	9.7	97	9.8	98	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.4	114	11.4	114	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	10.1	101	10.2	102	1	70-130/30
80-62-6	Methylmethacrylate	10	10.8	108	10.9	109	1	70-130/30
115-07-1	Propylene	10	9.6	96	9.8	98	2	70-130/30
100-42-5	Styrene	10	11.5	115	11.6	116	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.6	106	10.7	107	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	12.4	124	12.5	125	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.7	107	10.3	103	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	12.4	124	12.2	122	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	13.1	131* b	13.3	133* b	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	12.5	125	12.7	127	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.8	108	10.8	108	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	11.4	114	11.3	113	1	70-130/30
127-18-4	Tetrachloroethylene	10	10.5	105	10.8	108	3	70-130/30
109-99-9	Tetrahydrofuran	10	10	100	10.1	101	1	70-130/30
108-88-3	Toluene	10	10.7	107	10.8	108	1	70-130/30
79-01-6	Trichloroethylene	10	10.6	106	10.8	108	2	70-130/30
75-69-4	Trichlorofluoromethane	10	10.5	105	10.5	105	0	70-130/30
75-01-4	Vinyl chloride	10	10.0	100	10.1	101	1	70-130/30
108-05-4	Vinyl Acetate	10	10.3	103	10.2	102	1	70-130/30
	m,p-Xylene	20	23.3	117	23.7	119	2	70-130/30
95-47-6	o-Xylene	10	11.9	119	12.0	120	1	70-130/30
1330-20-7	Xylenes (total)	30	35.2	117	35.8	119	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 3 of 3

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-BS	2W59674.D	1	05/31/22	TCH	n/a	n/a	V2W2652
V2W2652-BSD	2W59675.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here applies to the following samples:

Method: TO-15

V2W2652-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	106%	105%	65-128%

- (a) High percent recovery and no associated positive reported in the QC batch.
(b) Outside in house control limits.

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 3

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47214-1DUP	3W76661.D	1	06/27/22	BK	n/a	n/a	V3W3017
JD47214-1	3W76660.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples:

Method: TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	JD47214-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	4.2		4.3		2	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	ND		ND		nc	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	6.6		6.5		2	25
100-41-4	Ethylbenzene	0.46		0.49	J	6	25
141-78-6	Ethyl Acetate	19.5		19.7		1	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Page 2 of 3

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47214-1DUP	3W76661.D	1	06/27/22	BK	n/a	n/a	V3W3017
JD47214-1	3W76660.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples:

Method: TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

CAS No.	Compound	JD47214-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND	ND			nc	25
76-14-2	Freon 114	ND	ND			nc	25
142-82-5	Heptane	ND	ND			nc	25
87-68-3	Hexachlorobutadiene	ND	ND			nc	25
110-54-3	Hexane	1.0	0.98			2	25
591-78-6	2-Hexanone	ND	ND			nc	25
67-63-0	Isopropyl Alcohol	1.5	1.6			6	25
75-09-2	Methylene chloride	0.94	0.98			4	25
78-93-3	Methyl ethyl ketone	1.6	1.5			6	25
108-10-1	Methyl Isobutyl Ketone	ND	ND			nc	25
1634-04-4	Methyl Tert Butyl Ether	ND	ND			nc	25
80-62-6	Methylmethacrylate	ND	ND			nc	25
115-07-1	Propylene	10.9	11.2			3	25
100-42-5	Styrene	ND	ND			nc	25
71-55-6	1,1,1-Trichloroethane	ND	ND			nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND			nc	25
79-00-5	1,1,2-Trichloroethane	ND	ND			nc	25
120-82-1	1,2,4-Trichlorobenzene	ND	ND			nc	25
95-63-6	1,2,4-Trimethylbenzene	0.87	0.92			6	25
108-67-8	1,3,5-Trimethylbenzene	ND	ND			nc	25
540-84-1	2,2,4-Trimethylpentane	ND	ND			nc	25
75-65-0	Tertiary Butyl Alcohol	ND	ND			nc	25
109-99-9	Tetrahydrofuran	ND	ND			nc	25
108-88-3	Toluene	3.3	3.3			0	25
79-01-6	Trichloroethylene	ND	ND			nc	25
75-69-4	Trichlorofluoromethane	0.38	0.37	J		3	25
75-01-4	Vinyl chloride	ND	ND			nc	25
108-05-4	Vinyl Acetate	ND	0.63	J		200* a	25
	m,p-Xylene	2.1	2.1			0	25
95-47-6	o-Xylene	0.79	0.86			8	25
1330-20-7	Xylenes (total)	2.9	3.0			3	25

CAS No.	Surrogate Recoveries	DUP	JD47214-1	Limits
460-00-4	4-Bromofluorobenzene	113%	114%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47214-1DUP	3W76661.D	1	06/27/22	BK	n/a	n/a	V3W3017
JD47214-1	3W76660.D	1	06/27/22	BK	n/a	n/a	V3W3017

The QC reported here applies to the following samples: Method: TO-15

JD47017-1, JD47017-2, JD47017-3, JD47017-4

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Duplicate Summary

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47215-2DUP	3W76690.D	1.52	06/28/22	TCH	n/a	n/a	V3W3018
JD47215-2	3W76689.D	1.52	06/28/22	TCH	n/a	n/a	V3W3018

The QC reported here applies to the following samples:

Method: TO-15

JD47017-1, JD47017-3, JD47017-4

CAS No.	Compound	JD47215-2 ppbv	DUP Q	RPD	Limits
127-18-4	Tetrachloroethylene	2.0	0.32	145* a	25

CAS No.	Surrogate Recoveries	DUP	JD47215-2	Limits
460-00-4	4-Bromofluorobenzene	105%	108%	65-128%

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD47369-1DUP	3W76752.D	1	06/30/22	TCH	n/a	n/a	V3W3020
JD47369-1	3W76751.D	1	06/30/22	TCH	n/a	n/a	V3W3020

The QC reported here applies to the following samples: Method: TO-15

JD47017-2

CAS No.	Compound	JD47369-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
127-18-4	Tetrachloroethylene	0.11		0.11		0	25

CAS No.	Surrogate Recoveries	DUP	JD47369-1	Limits
460-00-4	4-Bromofluorobenzene	112%	111%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-SCC	6W24839.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here (Summa A490) applies to the following samples:

Method: TO-15

Batch CP11653 cleaned 04/10/22: JD47017-2(A1119)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-SCC	6W24839.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here (Summa A490) applies to the following samples:

Method: TO-15

Batch CP11653 cleaned 04/10/22: JD47017-2(A1119)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1064-SCC	6W24839.D	1	04/11/22	TCH	n/a	n/a	V6W1064

The QC reported here (Summa A490) applies to the following samples: Method: TO-15

Batch CP11653 cleaned 04/10/22: JD47017-2(A1119)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	101% 65-128%

6.4.1
6

Summa Cleaning Certification

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Job Number: JD47017**Account:** UTC Raytheon Technologies Corporation**Project:** AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-SCC	2W59259.D	1	05/13/22	TCH	n/a	n/a	V2W2635

The QC reported here (Summa A503) applies to the following samples:**Method:** TO-15

Batch CP11718 cleaned 04/29/22: JD47017-3(A798)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-SCC	2W59259.D	1	05/13/22	TCH	n/a	n/a	V2W2635

The QC reported here (Summa A503) applies to the following samples:

Method: TO-15

Batch CP11718 cleaned 04/29/22: JD47017-3(A798)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2635-SCC	2W59259.D	1	05/13/22	TCH	n/a	n/a	V2W2635

The QC reported here (Summa A503) applies to the following samples: Method: TO-15

Batch CP11718 cleaned 04/29/22: JD47017-3(A798)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	94% 65-128%

Summa Cleaning Certification

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-SCC	2W59686.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here (Summa M191) applies to the following samples:

Method: TO-15

Batch CP11760 cleaned 05/25/22: JD47017-4(A604)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-SCC	2W59686.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here (Summa M191) applies to the following samples:

Method: TO-15

Batch CP11760 cleaned 05/25/22: JD47017-4(A604)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2652-SCC	2W59686.D	1	05/31/22	TCH	n/a	n/a	V2W2652

The QC reported here (Summa M191) applies to the following samples: Method: TO-15

Batch CP11760 cleaned 05/25/22: JD47017-4(A604)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	90% 65-128%

Instrument Performance Check (BFB)

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2619-BFB

Injection Date: 04/26/22

Lab File ID: 2W58805.D

Injection Time: 12:38

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	89760	25.4	Pass
75	30.0 - 66.0% of mass 95	172117	48.8	Pass
95	Base peak, 100% relative abundance	352832	100.0	Pass
96	5.0 - 9.0% of mass 95	23155	6.56	Pass
173	Less than 2.0% of mass 174	2236	0.63 (0.90) ^a	Pass
174	50.0 - 120.0% of mass 95	249621	70.7	Pass
175	4.0 - 9.01% of mass 174	17403	4.93 (6.97) ^a	Pass
176	93.0 - 101.0% of mass 174	242859	68.8 (97.3) ^a	Pass
177	5.0 - 9.0% of mass 176	15610	4.42 (6.43) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2619-IC2619	2W58806.D	04/26/22	13:14	00:36	Initial cal 0.04
V2W2619-IC2619	2W58807.D	04/26/22	13:50	01:12	Initial cal 0.1
V2W2619-IC2619	2W58808.D	04/26/22	14:27	01:49	Initial cal 0.2
V2W2619-IC2619	2W58809.D	04/26/22	15:05	02:27	Initial cal 0.5
V2W2619-IC2619	2W58810.D	04/26/22	15:42	03:04	Initial cal 5
V2W2619-ICC2619	2W58811.D	04/26/22	16:18	03:40	Initial cal 10
V2W2619-IC2619	2W58812.D	04/26/22	16:55	04:17	Initial cal 20
V2W2619-IC2619	2W58813.D	04/26/22	17:37	04:59	Initial cal 40
V2W2619-IC2619	2W58814.D	04/26/22	18:20	05:42	Initial cal 50
V2W2619-ICV2619	2W58819.D	04/27/22	10:06	21:28	Initial cal verification 10

Instrument Performance Check (BFB)

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2635-BFB

Injection Date: 05/12/22

Lab File ID: 2W59236.D

Injection Time: 07:00

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	125256	30.6	Pass
75	30.0 - 66.0% of mass 95	214912	52.4	Pass
95	Base peak, 100% relative abundance	409920	100.0	Pass
96	5.0 - 9.0% of mass 95	26051	6.36	Pass
173	Less than 2.0% of mass 174	1900	0.46 (0.65) ^a	Pass
174	50.0 - 120.0% of mass 95	292501	71.4	Pass
175	4.0 - 9.01% of mass 174	21104	5.15 (7.22) ^a	Pass
176	93.0 - 101.0% of mass 174	278827	68.0 (95.3) ^a	Pass
177	5.0 - 9.0% of mass 176	17816	4.35 (6.39) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2635-CC2619	2W59237.D	05/12/22	07:38	00:38	Continuing cal 10
V2W2635-BS	2W59238.D	05/12/22	09:09	02:09	Blank Spike
V2W2635-BSD	2W59239.D	05/12/22	09:47	02:47	Blank Spike Duplicate
V2W2635-MB	2W59241.D	05/12/22	11:54	04:54	Method Blank
ZZZZZZ	2W59242.D	05/12/22	13:23	06:23	(unrelated sample)
ZZZZZZ	2W59243.D	05/12/22	14:01	07:01	(unrelated sample)
JD44448-10	2W59244.D	05/12/22	14:38	07:38	(used for QC only; not part of job JD47017)
JD44448-10DUP	2W59245.D	05/12/22	15:15	08:15	Duplicate
V2W2635-SCC	2W59246.D	05/12/22	15:58	08:58	Summa Cleaning Certification
V2W2635-SCC	2W59247.D	05/12/22	16:41	09:41	Summa Cleaning Certification
V2W2635-SCC	2W59248.D	05/12/22	17:23	10:23	Summa Cleaning Certification
ZZZZZZ	2W59249.D	05/12/22	18:01	11:01	(unrelated sample)
ZZZZZZ	2W59250.D	05/12/22	18:38	11:38	(unrelated sample)
ZZZZZZ	2W59251.D	05/12/22	19:14	12:14	(unrelated sample)
ZZZZZZ	2W59252.D	05/12/22	19:51	12:51	(unrelated sample)
ZZZZZZ	2W59253.D	05/12/22	20:29	13:29	(unrelated sample)
ZZZZZZ	2W59254.D	05/12/22	21:07	14:07	(unrelated sample)
ZZZZZZ	2W59255.D	05/12/22	21:45	14:45	(unrelated sample)
ZZZZZZ	2W59256.D	05/12/22	22:23	15:23	(unrelated sample)
ZZZZZZ	2W59257.D	05/12/22	23:00	16:00	(unrelated sample)
ZZZZZZ	2W59258.D	05/12/22	23:38	16:38	(unrelated sample)
V2W2635-SCC	2W59259.D	05/13/22	00:14	17:14	Summa Cleaning Certification
V2W2635-SCC	2W59260.D	05/13/22	00:51	17:51	Summa Cleaning Certification
V2W2635-SCC	2W59261.D	05/13/22	01:28	18:28	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2635-BFB	Injection Date:	05/12/22
Lab File ID:	2W59236.D	Injection Time:	07:00
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2635-SCC	2W59262.D	05/13/22	02:10	19:10	Summa Cleaning Certification
V2W2635-SCC	2W59263.D	05/13/22	02:53	19:53	Summa Cleaning Certification
V2W2635-SCC	2W59264.D	05/13/22	03:36	20:36	Summa Cleaning Certification

6.5.2
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Instrument Performance Check (BFB)

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2640-BFB

Injection Date: 05/17/22

Lab File ID: 2W59350.D

Injection Time: 15:59

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	67301	20.7	Pass
75	30.0 - 66.0% of mass 95	161493	49.8	Pass
95	Base peak, 100% relative abundance	324459	100.0	Pass
96	5.0 - 9.0% of mass 95	20840	6.42	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	266091	82.0	Pass
175	4.0 - 9.01% of mass 174	18581	5.73 (6.98) ^a	Pass
176	93.0 - 101.0% of mass 174	251008	77.4 (94.3) ^a	Pass
177	5.0 - 9.0% of mass 176	16071	4.95 (6.40) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2640-IC2640	2W59351.D	05/17/22	16:34	00:35	Initial cal 0.04
V2W2640-IC2640	2W59352.D	05/17/22	17:10	01:11	Initial cal 0.1
V2W2640-IC2640	2W59353.D	05/17/22	17:47	01:48	Initial cal 0.2
V2W2640-IC2640	2W59354.D	05/17/22	18:26	02:27	Initial cal 0.5
V2W2640-IC2640	2W59355.D	05/17/22	19:02	03:03	Initial cal 5
V2W2640-ICC2640	2W59356.D	05/17/22	19:39	03:40	Initial cal 10
V2W2640-IC2640	2W59357.D	05/17/22	20:17	04:18	Initial cal 20
V2W2640-IC2640	2W59358.D	05/17/22	21:00	05:01	Initial cal 40
V2W2640-IC2640	2W59359.D	05/17/22	21:44	05:45	Initial cal 50
V2W2640-ICV2640	2W59370.D	05/18/22	15:24	23:25	Initial cal verification 10

Instrument Performance Check (BFB)

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V2W2652-BFB

Injection Date: 05/31/22

Lab File ID: 2W59672.D

Injection Time: 08:45

Instrument ID: GCMS2W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	64437	23.7	Pass
75	30.0 - 66.0% of mass 95	144533	53.2	Pass
95	Base peak, 100% relative abundance	271467	100.0	Pass
96	5.0 - 9.0% of mass 95	17168	6.32	Pass
173	Less than 2.0% of mass 174	1152	0.42 (0.51) ^a	Pass
174	50.0 - 120.0% of mass 95	227029	83.6	Pass
175	4.0 - 9.01% of mass 174	15565	5.73 (6.86) ^a	Pass
176	93.0 - 101.0% of mass 174	219264	80.8 (96.6) ^a	Pass
177	5.0 - 9.0% of mass 176	14135	5.21 (6.45) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2652-CC2640	2W59673.D	05/31/22	09:21	00:36	Continuing cal 10
V2W2652-BS	2W59674.D	05/31/22	10:06	01:21	Blank Spike
V2W2652-BSD	2W59675.D	05/31/22	10:42	01:57	Blank Spike Duplicate
V2W2652-MB	2W59677.D	05/31/22	12:32	03:47	Method Blank
V2W2652-SCC	2W59678.D	05/31/22	13:14	04:29	Summa Cleaning Certification
V2W2652-SCC	2W59680.D	05/31/22	14:38	05:53	Summa Cleaning Certification
V2W2652-SCC	2W59681.D	05/31/22	15:20	06:35	Summa Cleaning Certification
V2W2652-SCC	2W59683.D	05/31/22	16:44	07:59	Summa Cleaning Certification
V2W2652-SCC	2W59684.D	05/31/22	17:25	08:40	Summa Cleaning Certification
V2W2652-SCC	2W59685.D	05/31/22	18:07	09:22	Summa Cleaning Certification
V2W2652-SCC	2W59686.D	05/31/22	18:44	09:59	Summa Cleaning Certification
V2W2652-SCC	2W59687.D	05/31/22	19:20	10:35	Summa Cleaning Certification
V2W2652-SCC	2W59688.D	05/31/22	19:57	11:12	Summa Cleaning Certification
JD45626-1	2W59689.D	05/31/22	20:40	11:55	(used for QC only; not part of job JD47017)
JD45626-1DUP	2W59690.D	05/31/22	21:24	12:39	Duplicate
ZZZZZZ	2W59691.D	05/31/22	22:07	13:22	(unrelated sample)
ZZZZZZ	2W59692.D	05/31/22	22:50	14:05	(unrelated sample)
ZZZZZZ	2W59693.D	05/31/22	23:34	14:49	(unrelated sample)
ZZZZZZ	2W59694.D	06/01/22	00:17	15:32	(unrelated sample)
ZZZZZZ	2W59695.D	06/01/22	01:02	16:17	(unrelated sample)
ZZZZZZ	2W59696.D	06/01/22	01:45	17:00	(unrelated sample)
ZZZZZZ	2W59697.D	06/01/22	02:29	17:44	(unrelated sample)
ZZZZZZ	2W59699.D	06/01/22	03:43	18:58	(unrelated sample)
ZZZZZZ	2W59700.D	06/01/22	04:20	19:35	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V2W2652-BFB	Injection Date:	05/31/22
Lab File ID:	2W59672.D	Injection Time:	08:45
Instrument ID:	GCMS2W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	2W59701.D	06/01/22	05:04	20:19	(unrelated sample)
ZZZZZZ	2W59702.D	06/01/22	05:48	21:03	(unrelated sample)
ZZZZZZ	2W59703.D	06/01/22	06:31	21:46	(unrelated sample)
ZZZZZZ	2W59704.D	06/01/22	07:15	22:30	(unrelated sample)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W2981-BFB

Injection Date: 04/23/22

Lab File ID: 3W75770.D

Injection Time: 00:24

Instrument ID: GCMS3W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	15236	19.6	Pass
75	30.0 - 66.0% of mass 95	39237	50.5	Pass
95	Base peak, 100% relative abundance	77733	100.0	Pass
96	5.0 - 9.0% of mass 95	5108	6.57	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	73443	94.5	Pass
175	4.0 - 9.01% of mass 174	5665	7.29 (7.71) ^a	Pass
176	93.0 - 101.0% of mass 174	72512	93.3 (98.7) ^a	Pass
177	5.0 - 9.0% of mass 176	4712	6.06 (6.50) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2981-IC2981	3W75772.D	04/23/22	02:17	01:53	Initial cal 0.04
V3W2981-IC2981	3W75773.D	04/23/22	03:04	02:40	Initial cal 0.1
V3W2981-IC2981	3W75774.D	04/23/22	03:51	03:27	Initial cal 0.2
V3W2981-IC2981	3W75775.D	04/23/22	04:39	04:15	Initial cal 0.5
V3W2981-IC2981	3W75776.D	04/23/22	05:26	05:02	Initial cal 5
V3W2981-ICC2981	3W75777.D	04/23/22	06:12	05:48	Initial cal 10
V3W2981-IC2981	3W75778.D	04/23/22	07:00	06:36	Initial cal 20
V3W2981-IC2981	3W75779.D	04/23/22	07:52	07:28	Initial cal 40
V3W2981-IC2981	3W75780.D	04/23/22	08:46	08:22	Initial cal 50
V3W2981-ICV2981	3W75784.D	04/23/22	11:54	11:30	Initial cal verification 10

Instrument Performance Check (BFB)

Page 1 of 2

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3017-BFB

Injection Date: 06/27/22

Lab File ID: 3W76652.D

Injection Time: 09:24

Instrument ID: GCMS3W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	59688	19.3	Pass
75	30.0 - 66.0% of mass 95	157653	50.9	Pass
95	Base peak, 100% relative abundance	310016	100.0	Pass
96	5.0 - 9.0% of mass 95	20677	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	342869	110.6	Pass
175	4.0 - 9.01% of mass 174	28376	9.15 (8.28) ^a	Pass
176	93.0 - 101.0% of mass 174	339157	109.4 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	23363	7.54 (6.89) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3017-CC2981	3W76654.D	06/27/22	11:03	01:39	Continuing cal 10
V3W3017-BS	3W76655.D	06/27/22	11:53	02:29	Blank Spike
V3W3017-BSD	3W76656.D	06/27/22	12:43	03:19	Blank Spike Duplicate
V3W3017-MB	3W76659.D	06/27/22	15:22	05:58	Method Blank
JD47214-1	3W76660.D	06/27/22	16:13	06:49	(used for QC only; not part of job JD47017)
JD47214-1DUP	3W76661.D	06/27/22	17:02	07:38	Duplicate
ZZZZZZ	3W76662.D	06/27/22	17:51	08:27	(unrelated sample)
ZZZZZZ	3W76663.D	06/27/22	18:39	09:15	(unrelated sample)
ZZZZZZ	3W76664.D	06/27/22	19:29	10:05	(unrelated sample)
ZZZZZZ	3W76665.D	06/27/22	20:18	10:54	(unrelated sample)
ZZZZZZ	3W76666.D	06/27/22	21:06	11:42	(unrelated sample)
ZZZZZZ	3W76667.D	06/27/22	21:53	12:29	(unrelated sample)
ZZZZZZ	3W76668.D	06/27/22	22:42	13:18	(unrelated sample)
ZZZZZZ	3W76669.D	06/27/22	23:32	14:08	(unrelated sample)
ZZZZZZ	3W76670.D	06/28/22	00:19	14:55	(unrelated sample)
ZZZZZZ	3W76671.D	06/28/22	01:06	15:42	(unrelated sample)
ZZZZZZ	3W76672.D	06/28/22	01:56	16:32	(unrelated sample)
ZZZZZZ	3W76673.D	06/28/22	02:44	17:20	(unrelated sample)
ZZZZZZ	3W76674.D	06/28/22	03:37	18:13	(unrelated sample)
ZZZZZZ	3W76675.D	06/28/22	04:34	19:10	(unrelated sample)
JD47017-2	3W76676.D	06/28/22	05:22	19:58	SVE-EFF(061522)
JD47017-3	3W76677.D	06/28/22	06:11	20:47	SVE-INF(061622)
JD47017-4	3W76678.D	06/28/22	06:59	21:35	SVE-EFF(061622)
JD47017-1	3W76679.D	06/28/22	07:48	22:24	SVE-INF(061522)

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V3W3017-BFB	Injection Date:	06/27/22
Lab File ID:	3W76652.D	Injection Time:	09:24
Instrument ID:	GCMS3W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W76680.D	06/28/22	08:37	23:13	(unrelated sample)

6.5.6
6

Instrument Performance Check (BFB)

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3018-BFB

Injection Date: 06/28/22

Lab File ID: 3W76683.D

Injection Time: 11:36

Instrument ID: GCMS3W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	23571	21.9	Pass
75	30.0 - 66.0% of mass 95	58555	54.3	Pass
95	Base peak, 100% relative abundance	107819	100.0	Pass
96	5.0 - 9.0% of mass 95	6858	6.36	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	115792	107.4	Pass
175	4.0 - 9.01% of mass 174	9907	9.19 (8.56) ^a	Pass
176	93.0 - 101.0% of mass 174	115368	107.0 (99.6) ^a	Pass
177	5.0 - 9.0% of mass 176	7402	6.87 (6.42) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3018-CC2981	3W76684.D	06/28/22	12:24	00:48	Continuing cal 10
V3W3018-BS	3W76685.D	06/28/22	13:24	01:48	Blank Spike
V3W3018-BSD	3W76686.D	06/28/22	14:13	02:37	Blank Spike Duplicate
V3W3018-MB	3W76688.D	06/28/22	15:55	04:19	Method Blank
JD47215-2	3W76689.D	06/28/22	16:52	05:16	(used for QC only; not part of job JD47017)
JD47215-2DUP	3W76690.D	06/28/22	17:41	06:05	Duplicate
ZZZZZZ	3W76691.D	06/28/22	18:29	06:53	(unrelated sample)
ZZZZZZ	3W76692.D	06/28/22	19:12	07:36	(unrelated sample)
ZZZZZZ	3W76693.D	06/28/22	19:52	08:16	(unrelated sample)
ZZZZZZ	3W76694.D	06/28/22	20:34	08:58	(unrelated sample)
ZZZZZZ	3W76695.D	06/28/22	21:13	09:37	(unrelated sample)
ZZZZZZ	3W76696.D	06/28/22	21:51	10:15	(unrelated sample)
ZZZZZZ	3W76697.D	06/28/22	22:33	10:57	(unrelated sample)
ZZZZZZ	3W76698.D	06/28/22	23:19	11:43	(unrelated sample)
ZZZZZZ	3W76699.D	06/29/22	00:04	12:28	(unrelated sample)
ZZZZZZ	3W76700.D	06/29/22	00:49	13:13	(unrelated sample)
ZZZZZZ	3W76701.D	06/29/22	01:33	13:57	(unrelated sample)
ZZZZZZ	3W76702.D	06/29/22	02:18	14:42	(unrelated sample)
ZZZZZZ	3W76703.D	06/29/22	03:03	15:27	(unrelated sample)
ZZZZZZ	3W76704.D	06/29/22	03:49	16:13	(unrelated sample)
ZZZZZZ	3W76705.D	06/29/22	04:34	16:58	(unrelated sample)
JD47017-3	3W76707.D	06/29/22	05:53	18:17	SVE-INF(061622)
JD47017-4	3W76708.D	06/29/22	06:31	18:55	SVE-EFF(061622)
JD47017-1	3W76709.D	06/29/22	07:10	19:34	SVE-INF(061522)

Instrument Performance Check (BFB)

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Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V3W3020-BFB

Injection Date: 06/30/22

Lab File ID: 3W76740.D

Injection Time: 08:13

Instrument ID: GCMS3W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	20771	21.2	Pass
75	30.0 - 66.0% of mass 95	52584	53.6	Pass
95	Base peak, 100% relative abundance	98040	100.0	Pass
96	5.0 - 9.0% of mass 95	6533	6.66	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	114477	116.8	Pass
175	4.0 - 9.01% of mass 174	9202	9.39 (8.04) ^a	Pass
176	93.0 - 101.0% of mass 174	112035	114.3 (97.9) ^a	Pass
177	5.0 - 9.0% of mass 176	7456	7.61 (6.66) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W3020-CC2981	3W76741.D	06/30/22	08:59	00:46	Continuing cal 10
V3W3020-BS	3W76742.D	06/30/22	09:39	01:26	Blank Spike
V3W3020-BSD	3W76745.D	06/30/22	12:55	04:42	Blank Spike Duplicate
V3W3020-MB	3W76747.D	06/30/22	14:25	06:12	Method Blank
V3W3020-SCC	3W76748.D	06/30/22	15:13	07:00	Summa Cleaning Certification
V3W3020-SCC	3W76749.D	06/30/22	15:53	07:40	Summa Cleaning Certification
V3W3020-SCC	3W76750.D	06/30/22	16:34	08:21	Summa Cleaning Certification
JD47369-1	3W76751.D	06/30/22	17:20	09:07	(used for QC only; not part of job JD47017)
JD47369-1DUP	3W76752.D	06/30/22	18:07	09:54	Duplicate
ZZZZZZ	3W76755.D	06/30/22	20:19	12:06	(unrelated sample)
ZZZZZZ	3W76756.D	06/30/22	21:05	12:52	(unrelated sample)
ZZZZZZ	3W76757.D	06/30/22	21:52	13:39	(unrelated sample)
ZZZZZZ	3W76758.D	06/30/22	22:38	14:25	(unrelated sample)
ZZZZZZ	3W76759.D	06/30/22	23:23	15:10	(unrelated sample)
ZZZZZZ	3W76760.D	07/01/22	00:08	15:55	(unrelated sample)
ZZZZZZ	3W76761.D	07/01/22	00:53	16:40	(unrelated sample)
ZZZZZZ	3W76762.D	07/01/22	01:37	17:24	(unrelated sample)
ZZZZZZ	3W76763.D	07/01/22	02:22	18:09	(unrelated sample)
ZZZZZZ	3W76764.D	07/01/22	03:01	18:48	(unrelated sample)
ZZZZZZ	3W76765.D	07/01/22	03:40	19:27	(unrelated sample)
ZZZZZZ	3W76766.D	07/01/22	04:21	20:08	(unrelated sample)
JD47017-2	3W76767.D	07/01/22	04:59	20:46	SVE-EFF(061522)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V6W1062-BFB

Injection Date: 04/07/22

Lab File ID: 6W24755.D

Injection Time: 02:13

Instrument ID: GCMS6W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	41987	21.4	Pass
75	30.0 - 66.0% of mass 95	98677	50.4	Pass
95	Base peak, 100% relative abundance	195755	100.0	Pass
96	5.0 - 9.0% of mass 95	12766	6.52	Pass
173	Less than 2.0% of mass 174	1994	1.02 (1.14) ^a	Pass
174	50.0 - 120.0% of mass 95	175168	89.5	Pass
175	4.0 - 9.0% of mass 174	12868	6.57 (7.35) ^a	Pass
176	93.0 - 101.0% of mass 174	170987	87.3 (97.6) ^a	Pass
177	5.0 - 9.0% of mass 176	11494	5.87 (6.72) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1062-IC1062	6W24756.D	04/07/22	02:59	00:46	Initial cal 0.04
V6W1062-IC1062	6W24757.D	04/07/22	03:46	01:33	Initial cal 0.1
V6W1062-IC1062	6W24758.D	04/07/22	04:33	02:20	Initial cal 0.2
V6W1062-IC1062	6W24759.D	04/07/22	05:22	03:09	Initial cal 0.5
V6W1062-IC1062	6W24760.D	04/07/22	06:07	03:54	Initial cal 5
V6W1062-ICC1062	6W24761.D	04/07/22	06:54	04:41	Initial cal 10
V6W1062-IC1062	6W24762.D	04/07/22	07:43	05:30	Initial cal 20
V6W1062-IC1062	6W24763.D	04/07/22	08:35	06:22	Initial cal 40

Instrument Performance Check (BFB)

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample:	V6W1062-BFB	Injection Date:	04/07/22
Lab File ID:	6W24775.D	Injection Time:	22:42
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	41379	22.6	Pass
75	30.0 - 66.0% of mass 95	94485	51.6	Pass
95	Base peak, 100% relative abundance	183147	100.0	Pass
96	5.0 - 9.0% of mass 95	12283	6.71	Pass
173	Less than 2.0% of mass 174	1729	0.94 (1.10) ^a	Pass
174	50.0 - 120.0% of mass 95	157461	86.0	Pass
175	4.0 - 9.0% of mass 174	11980	6.54 (7.61) ^a	Pass
176	93.0 - 101.0% of mass 174	151989	83.0 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	10068	5.50 (6.62) ^b	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1062-ICV1062	6W24778.D	04/08/22	03:49	05:07	Initial cal verification 10

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD47017

Account: UTC Raytheon Technologies Corporation

Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Sample: V6W1064-BFB

Injection Date: 04/11/22

Lab File ID: 6W24830.D

Injection Time: 06:40

Instrument ID: GCMS6W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	55165	23.1	Pass
75	30.0 - 66.0% of mass 95	122000	51.1	Pass
95	Base peak, 100% relative abundance	238677	100.0	Pass
96	5.0 - 9.0% of mass 95	15320	6.42	Pass
173	Less than 2.0% of mass 174	2976	1.25 (1.25) ^a	Pass
174	50.0 - 120.0% of mass 95	238635	100.0	Pass
175	4.0 - 9.0% of mass 174	17936	7.51 (7.52) ^a	Pass
176	93.0 - 101.0% of mass 174	230720	96.7 (96.7) ^a	Pass
177	5.0 - 9.0% of mass 176	15523	6.50 (6.73) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1064-CC1062	6W24831.D	04/11/22	09:05	02:25	Continuing cal 10
V6W1064-BS	6W24832.D	04/11/22	09:53	03:13	Blank Spike
V6W1064-BSD	6W24833.D	04/11/22	10:41	04:01	Blank Spike Duplicate
V6W1064-MB	6W24835.D	04/11/22	12:27	05:47	Method Blank
V6W1064-SCC	6W24836.D	04/11/22	13:59	07:19	Summa Cleaning Certification
V6W1064-SCC	6W24837.D	04/11/22	14:47	08:07	Summa Cleaning Certification
V6W1064-SCC	6W24838.D	04/11/22	15:35	08:55	Summa Cleaning Certification
V6W1064-SCC	6W24839.D	04/11/22	16:21	09:41	Summa Cleaning Certification
V6W1064-SCC	6W24842.D	04/11/22	18:54	12:14	Summa Cleaning Certification
V6W1064-SCC	6W24844.D	04/11/22	20:40	14:00	Summa Cleaning Certification
V6W1064-SCC	6W24845.D	04/11/22	21:32	14:52	Summa Cleaning Certification
V6W1064-SCC	6W24846.D	04/11/22	22:25	15:45	Summa Cleaning Certification
V6W1064-SCC	6W24848.D	04/12/22	00:09	17:29	Summa Cleaning Certification
V6W1064-SCC	6W24849.D	04/12/22	01:02	18:22	Summa Cleaning Certification
V6W1064-SCC	6W24850.D	04/12/22	01:55	19:15	Summa Cleaning Certification
V6W1064-SCC	6W24851.D	04/12/22	02:48	20:08	Summa Cleaning Certification
V6W1064-SCC	6W24852.D	04/12/22	03:40	21:00	Summa Cleaning Certification
V6W1064-SCC	6W24853.D	04/12/22	04:33	21:53	Summa Cleaning Certification
V6W1064-SCC	6W24854.D	04/12/22	05:26	22:46	Summa Cleaning Certification
V6W1064-SCC	6W24855.D	04/12/22	06:18	23:38	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD47017
Account: UTC Raytheon Technologies Corporation
Project: AECOMSCG: Delavan Spray Technologies; Bamberg, SC

Method: TO-15	Matrix: AIR
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD47017-1	3W76709.D	100
JD47017-1	3W76679.D	105
JD47017-2	3W76767.D	107
JD47017-2	3W76676.D	113
JD47017-3	3W76707.D	97
JD47017-3	3W76677.D	110
JD47017-4	3W76708.D	97
JD47017-4	3W76678.D	110
JD47214-1DUP	3W76661.D	113
JD47215-2DUP	3W76690.D	105
JD47369-1DUP	3W76752.D	112
V2W2635-SCC	2W59259.D	94
V2W2652-SCC	2W59686.D	90
V3W3017-BS	3W76655.D	111
V3W3017-BSD	3W76656.D	112
V3W3017-MB	3W76659.D	114
V3W3018-BS	3W76685.D	104
V3W3018-BSD	3W76686.D	103
V3W3018-MB	3W76688.D	106
V3W3020-BS	3W76742.D	114
V3W3020-BSD	3W76745.D	107
V3W3020-MB	3W76747.D	109
V6W1064-SCC	6W24839.D	101
V2W2635-BS	2W59238.D	104
V2W2635-BSD	2W59239.D	105
V2W2635-MB	2W59241.D	95
V2W2652-BS	2W59674.D	106
V2W2652-BSD	2W59675.D	105
V2W2652-MB	2W59677.D	96
V6W1064-BS	6W24832.D	98
V6W1064-BSD	6W24833.D	100
V6W1064-MB	6W24835.D	100

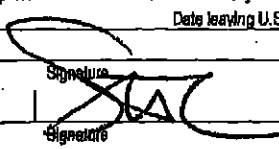
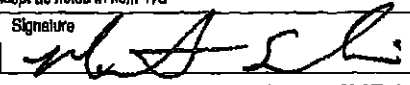
Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

**ATTACHMENT 9
WASTE MANIFESTS**

#435 S-15 9:57
9:05 251

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 69972
5. Generator's Name and Mailing Address Delmar Spray Technologies 4334 Mt. Highway Camden, SC		Generator's Site Address (if different than mailing address)			
Generator's Phone:		U.S. EPA ID Number FL0981928484			
6. Transporter 1 Company Name LES		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address LIQUID ENVIRONMENTAL SOLUTIONS 1640 TALLEYRAND AVE. - JACKSONVILLE, FL 32208		U.S. EPA ID Number FLD981928484			
Facility's Phone: 904-438-2138					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Dripping mud & wash water		01	VT	5000	G
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information # 5054716					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name On behalf of Delmar Spray Technologies, Inc.					
Signature <i>[Signature]</i>					
Month Day Year 8 31 21					
15. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Robert Sanderson					
Signature <i>[Signature]</i>					
Month Day Year 8 31 21					
Transporter 2 Printed/Typed Name Signature Month Day Year					
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Ray P. [Signature]					
Signature <i>[Signature]</i>					
Month Day Year 8 31 21					

6:00 - 10:00 12:00 - 4:00 164/435

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 80909	
5. Generator's Name and Mailing Address Delavan Spray Tech 4334 Main Hwy Bamberg, SC						Generator's Site Address (if different than mailing address)	
Generator's Phone:						U.S. EPA ID Number	
6. Transporter 1 Company Name LES						U.S. EPA ID Number FLD 981928484	
7. Transporter 2 Company Name						U.S. EPA ID Number	
8. Designated Facility Name and Site Address LIQUID ENVIRONMENTAL SOLUTIONS 1640 TALLEYRAND AVE. - JACKSONVILLE, FL 32206						U.S. EPA ID Number FLD981928484	
Facility's Phone: 904-438-2138							
9. Waste Shipping Name and Description				10. Containers		11. Total Quantity	12. Unit Wt/Vol
				No.	Type		
1. Non hazardous waste water				01	P/T	5,000	G
2.							
3.							
4.							
13. Special Handling Instructions and Additional Information							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Offenor's Printed/Typed Name Duncan Bailey Agent for Delavan				Signature 		Month Day Year 9 3 21	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Part of entry/exit: Date leaving U.S.:							
16. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Scott Rodger				Signature 		Month Day Year 9 3 21	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
17. Discrepancy							
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
17b. Alternate Facility (or Generator)						U.S. EPA ID Number	
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)						Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name Mandy Sellers				Signature 		Month Day Year 9 3 21	

Box # 25242

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number SDC078061124	2. Page 1 of 1	3. Emergency Response Phone 844-873-8723	4. Waste Tracking Number 001
5. Generator's Name and Mailing Address DELAVER SPRAY TECHNOLOGIES 4334 MAIN HIGHWAY BAMBERG, SC 29003 803-245-4347					
Generator's Site Address (if different than mailing address)					
Generator's Phone:					
6. Transporter 1 Company Name ROBBIE D WOOD				U.S. EPA ID Number A1D0047138891	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address CWM EMELLE 36964 ALABAMA HIGHWAY 17 NORTH EMELLE, AL 35459 800-963-4776				U.S. EPA ID Number ALD000622464	
Facility's Phone:					
9. Waste Shipping Name and Description		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
1. NON DOT, NON RCRA REGULATED MATERIAL (DRILLING MUD SOLIDS)		1 CM		15.000 P 11180	
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information PROFILE #407537AL Corrected to rec'd w/ Per Jordan Willet 9/16/21 BW rec'd on a copy 25242					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name Dunham Briley on behalf of Delaver Spray				Signature [Signature] Month Day Year 9 10 21	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Anthony Palty				Signature [Signature] Month Day Year 9 10 11	
Transporter 2 Printed/Typed Name				Signature Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number: U.S. EPA ID Number					
17b. Alternate Facility (or Generator)					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Annette Wilson				Signature [Signature] Month Day Year 09 14 21	

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
					006657687 GBF
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)			
Generator's Phone:					
6. Transporter 1 Company Name		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address		U.S. EPA ID Number			
Facility's Phone:					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
1.					
2.					
3.					
4.					
14. Special Handling Instructions and Additional Information					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Officer's Printed/Typed Name		Signature		Month	Day Year
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name		Signature		Month	Day Year
JOHN BURKE		John Burke		10	9/14/21
Transporter 2 Printed/Typed Name		Signature		Month	Day Year
18. Discrepancy					
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
For tracking only Manifest Reference Number: _____ U.S. EPA ID Number					
18b. Alternate Facility (or Generator)					
Facility's Phone:				Month	Day Year
18c. Signature of Alternate Facility (or Generator)					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1.	2.	3.	4.		
H132					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name		Signature		Month	Day Year
Annette Wilson		Cynthia Wilson		10	9/14/21

k2G

CWM, INC. - ENELLE

***** Receipt # 568959 *****

Page - 1

Date/Time In 9/14/21 8:10
Load Type Rolloff
Transporter ROBBIE D WOOD INC
DOLOMITE

Federal EPA ID ALD067138891

** WEIGHT SUMMARY **

Gross 46460.00
Tare 416820.00
Net 35640.00
Adj. 11180.00
Adj. Net .00

Truck Number 2005 Trailer/Contr #1 25242 #2 #3

Rcpt Doc	Document	Profile	Profile Generator	Cnt Cnt	Total	V DCS	Sched	Federal EPA	ADEN #
Ln# Ln#	Number	Sales	Invoicing Customer	# Code	Quan.	V Units	PCB Cat	Waste Status	
1 1	0066576876BF	407537AL	DELAVAL SPRAY TECHNO	1 CM	15000.00	P Pounds	TSOB	Undeterminable	093023-0017

Doc Seq # 1 ENE TRADEBE ENVIRONMENTAL SERVICES P.O. Num

>51% OR <51% DEBRIS (CIRCLE)

PREFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPROVAL

SPOT SAMPLE: B21- PHYS. DESCRIPTION

RAD. SCREEN POS NEG

IGN. SCREEN POS NEG

H2O SOL. S F PT/SOL

H2O RXN/TEMP. INITIAL NO RXN REACTS

H2O RXN/TEMP. SWIN. NO RXN REACTS

ph (PAPER)

CN SCREEN + - (PRUSSIAN BLUE)

CN SCREEN + - (CYANTESMO)

SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) SULFIDE (9030)

H2O BY KF CYANIDE (9010C) TAB WASTE Y N

PAINT FILTER TEST/ P F SPEC. GRAVITY BRZ CONC. PPM

COMMENTS: (SAFETY/OPERATIONAL)

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT HIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

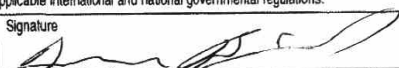
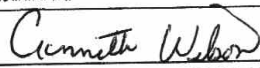
P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST
BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

Box # 25285

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number SDC078061124	2. Page 1 of 1	3. Emergency Response Phone 844-873-8723	4. Waste Tracking Number 002
5. Generator's Name and Mailing Address DELANEY SPRAY TECHNOLOGIES 4334 MAIN HIGHWAY BAMBERG, SC 29003 803-245-4347			Generator's Site Address (if different than mailing address)		
6. Transporter 1 Company Name ROBBIE D WOOD			U.S. EPA ID Number ALD0067138591		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address CWM EMELLE 36964 ALABAMA HIGHWAY 17 NORTH EMELLE, AL 35459 800-963-4776			U.S. EPA ID Number ALD000622454		
Facility's Phone:					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit WT/Vol.
		No.	Type		
1. NON DOT, NON RCRA REGULATED MATERIAL (DRILLING MUD SOLIDS)		1	CM	25	Y
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information PROFILE # 407537AL 25285					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Officer's Printed/Typed Name Dana Briley on behalf of Delaney Spray			Signature  Month Day Year 9 10 21		
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Anthony Petty			Signature  Month Day Year 9 10 21		
Transporter 2 Printed/Typed Name			Signature Month Day Year		
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Annette Wilson			Signature  Month Day Year 09 14 21		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number 006657689 GBF	
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address)				
Generator's Phone:						
6. Transporter 1 Company Name		U.S. EPA ID Number				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address		U.S. EPA ID Number				
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1.						
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offero's Printed/Typed Name		Signature		Month	Day	Year
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name		Signature		Month	Day	Year
JOHN BURKE		John Burke		09	14	21
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Fortracking only Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)		U.S. EPA ID Number				
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)		Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name		Signature		Month	Day	Year
Annette Wilson		Cynthia Wilson		09	14	21

k26

CWN, INC. - EMELLE

***** Receipt # 568965 *****

Page - 1

Date/Time In 9/14/21 9:37

Load Type Rolloff

Federal EPA ID ALD067138891

Transporter ROBBIE D WOOD INC
DOLONITE

AL

** WEIGHT SUMMARY **

Gross 38720.00

Tare 43600.00

Net 38260.00

Adj. 5340.00

Adj. Net .00

Truck Number 2005 Trailer/Contnr #1 25285 #2 #3

Rcpt Doc	Document	Profile	Profile Generator	Cnt Cnt	Total W DCS	Sched Federal EPA	ADEN #
Ln# Ln#	Number	Sales	Invoicing Customer	# Code	Quan. V Units	PCB Cat Waste Status	
1 1	006657689GBF	407537AL	DELAVAN SPRAY TECHNO	1 CM	25.00 Y Cubic Ya	TSOB Undeterminable	093023-0017
			BAMBERG SC		SUBCC Value - NA		
Doc Seq #	1	ENE	TRADEBE ENVIRONMENTAL SERVICES	P.O. Num			

>51% OR <51% DEBRIS (CIRCLE)

REFILLED VAULT Y OR N (CIRCLE)

>51% OR <51% MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED FREE LIQUIDS DETECTED? YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL WIND DISPERSAL MATERIAL? YES / NO

PHYSICAL DESCRIPTION OF WASTE: SAMPLER/APPROVAL

SPOT SAMPLE: B21- | PHYS. DESCRIPTION

RAD. SCREEN POS NEG |

IGN. SCREEN POS NEG |

H2O SOL. S F PT/SOL |

H2O RXN/TEMP. INITIAL NO RXN REACTS |

H2O RXN/TEMP. 5MIN. NO RXN REACTS |

ph (PAPER) |

CN SCREEN + - (PRUSSIAN BLUE) |

CN SCREEN + - (CYANESMO) |

SULFIDE SCREEN + - |

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPM) SULFIDE (9030) |

XH2O BY KF CYANIDE (9010C) TAB WASTE Y N |

PAINT FILTER TEST/ P F SPEC. GRAVITY BHZ CONC. PPM |

COMMENTS: (SAFETY/OPERATIONAL) |

COMPAT. TEST W/ OR RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51% MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

Box # 20059

1364262

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number SCD078061124	2. Page 1 of 1	3. Emergency Response Phone 844-873-8723	4. Manifest Tracking Number 016937292 JJK	
5. Generator's Name and Mailing Address Delavan Spray Technologies 4334 Main Hwy Bambers, SC Generator's Phone: 803-245-4347			Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name Robbie D Wood Inc			U.S. EPA ID Number ALD0067138891			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Cum Emelle 36964 Alabama Hwy 417 North Emelle AL 35457 Facility's Phone: 8009634776			U.S. EPA ID Number ALD000622464			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1.	NON DOT NON RCRA Regulated Material (Drilling Mud Solids) Profile # 407537AL	1	CM	20	X	
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information Box 003 Profile # 407537AL Emergency Response: Tradebe Environmental Services/ Compass 2: 2178342						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name Damon Briley on behalf of Delavan Spray		Signature 		Month Day Year 19/10/21		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Charles McCuller Signature Month Day Year 09/10/21 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: U.S. EPA ID Number						
18b. Alternate Facility (or Generator) Facility's Phone: Month Day Year						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Annette Wilson Signature Month Day Year 09/14/21						

k26

CWN, INC. - ENELLE

***** Receipt # 568970 *****

Page - 1

Date/Time In 9/14/21 10:38
 Load Type Rolloff
 Transporter ROBBIE D WOOD INC
 DOLONITE

Federal EPA ID ALD067138891

** WEIGHT SUMMARY **

Gross 42300.00
 Tare 41940.00
 Net 34900.00
 Adj. 7700.00
 Adj. Net .00

Truck Number 204 Trailer/Contr #1 20059 #2 #3

Rcpt Doc	Document Profile	Profile Generator	Cnt Cnt	Total W DCS	Sched Federal EPA	ADEN #
Ln# Ln#	Number Sales	Invoicing Customer	# Code	Quan. V Units	PCB Cat Waste Status	
1 1	016937292JK	407537AL DELAVAN SPRAY TECHNO	1 CH	20.00 Y Cubic Yd	TSOB Undeterminable	093023-0017

Doc Seq # 1 EME TRADES ENVIRONMENTAL SERVICES P.O. Num

>51X OR <51X DEBRIS (CIRCLE)
 PREFILLED VAULT Y OR N (CIRCLE)
 >51X OR <51X MAC 10% INSPECTION (CIRCLE)

BULK MATERIAL ONLY:

SAMPLED/INSPECTED

FREE LIQUIDS DETECTED?

YES / NO

SELECT MATERIAL/NON-SELECT MATERIAL

WIND DISPERSAL MATERIAL?

YES / NO

PHYSICAL DESCRIPTION OF WASTE:

SAMPLER/APPROVAL

SPOT SAMPLE: B21- PHYS. DESCRIPTION

RAD. SCREEN POS NEG

IGN. SCREEN POS NEG

H2O SOL. S F PT/SOL

H2O RXN/TEMP. INITIAL NO RXN REACTS

H2O RXN/TEMP. 5MIN. NO RXN REACTS

ph (PAPER)

CN SCREEN + - (PRUSSIAN BLUE)

CN SCREEN + - (CYANESMO)

SULFIDE SCREEN + -

ADDITIONAL ANALYTICAL REQ'D? Y N

DESCRIBE:

PCB CONC. (PPH) SULFIDE (9030)

XH2O BY KF CYANIDE (9010C)

PAINT FILTER TEST/ P F SPEC. GRAVITY TAB WASTE Y N

COMMENTS: (SAFETY/OPERATIONAL) BHZ CONC. PPM

COMPAT. TEST W/ OK RXN

ADD'L SPOT SAMPLE ATTACHED? Y N

DISPOSAL METHOD: S SP ST-3 ST-3/PT P-ST-3 P-ST-3/PT ST-5 ST-5/PT P-ST-5 S01-PTA B-PIN OTHER

P-ST-5/PT ST-8 ST-8/PT NIC MAC (MAC INSPECT) F INC SP-VS PCB-MAC P-MAC

P-ST-8 P-ST-8/PT VS-3 VS-5 VS-8

INDICATOR PARAMETER WILL BE CIRCLED

B-MAC LOADS REQUIRING INSPECTION THAT ARE FOUND TO BE LESS THAN 51X MUST

BE RETURNED TO LAB AND PLACED ON HOLD.

RELEASED FOR DISPOSAL BY: DATE:

5100-8:45-11:30-4:00

1336/

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 69988	
5. Generator's Name and Mailing Address Delavan Spray Tech. 4334 Main Hwy. Bamberg, SC		Generator's Site Address (if different than mailing address)					
Generator's Phone:		6. Transporter 1 Company Name LES				U.S. EPA ID Number FLD 981928484	
		7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address LIQUID ENVIRONMENTAL SOLUTIONS 1640 TALLEYRAND AVE. - JACKSONVILLE, FL 32206		U.S. EPA ID Number FLD981928484					
Facility's Phone: 904-438-2138							
GENERATOR	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt/Vol.	
			No.	Type			
	1. Non hazardous waste water		01	P/T	1700	G	
	2.						
	3.						
4.							
13. Special Handling Instructions and Additional Information							
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.							
Generator's/Officer's Printed/Typed Name		Signature				Month	Day Year
Dorcas Briley Agent on behalf of Delavan Spray						9	10 21
TRANSPORTER	15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit:		Date leaving U.S.:		
	Transporter Signature (for exports only):						
	16. Transporter Acknowledgment of Receipt of Materials		Signature		Month	Day Year	
	Transporter 1 Printed/Typed Name				9	10 21	
	Transporter 2 Printed/Typed Name		Signature		Month	Day Year	
17. Discrepancy							
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection		Manifest Reference Number:					
17b. Alternate Facility (or Generator)		U.S. EPA ID Number					
Facility's Phone:							
17c. Signature of Alternate Facility (or Generator)		Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name		Signature				Month	Day Year
Reg Jones						9	10 21



Oakridge Landfill
2175 Highway 78
Dorchester, SC, 29437
Ph: (843) 563-4587

Original
Ticket# 1130122

Customer Name CLEANHARBORS611818SC CLEAN HA Carrier Clean Harbors
Ticket Date 05/03/2022 Vehicle# 305019-29yd Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001475
State Waste Code Gen EPA ID NA
Manifest 611818sc Grid
Destination
By pending approval
Profile 611818SC (NON HAZARDOUS SOIL (WM012A))
Generator 126-DELEVANSPRAYTECH DELEVAN SPRAY TECHNOLOGIES-4334 Main Hwy.

	Time	Scale	Operator	Inbound	Gross	60640 lb*
In	05/03/2022 13:27:02	S2	nsmith13		Tare	34050 lb
Out	05/03/2022 14:34:34	S3	nsmith13		Net	30600 lb
			* Manual Weight		Tons	15.40

Comments

Product	LD%	Qty	UCM	Rate	Tax	Amount	Origin
1 Special Misc-Tons-	100	15.40	Tons				05-BANBEPG
2 EVF-P6-Environment	100		%				05-BANBEPG

Total Tax
Total Ticket

Driver's Signature

Teddy Lundy

WAS143

NON-HAZARDOUS WASTE MANIFEST

Please print or type

(Form designed for use on elite (12 pitch) typewriter)

LEX 2108024431 101

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. DC D078091124		Manifest Document No. 1139122		2. Page 1 of 1	
3. Generator's Name and Mailing Address Delta Spray Technologies 4777 Main Highway Spartanburg SC 29583				State Address SAME			
4. Generator's Phone (803) 243-5580							
5. Transporter 1 Company Name Dean Harris Environmental Services		6. US EPA ID Number MA0939322250		A. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (803) 243-5580			
9. Designated Facility Name and Site Address Waste Management Incorporated Oake Grove Landfill, Inc. 2175 Highway 78 Spartanburg, SC 29583		10. US EPA ID Number		C. State Transporter's ID			
				D. Transporter 2 Phone			
				E. State Facility's ID			
				F. Facility's Phone			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
NON-HAZARDOUS SOLID WASTE, REGULATED (SOIL)				1 CM		20 Y	
12. Additional Descriptions for Materials Listed Above Flammable				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information 221 840 520				EMERGENCY PHONE: (800) 483-8742 GENERATOR: Delta Spray Technologies			
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name S. P. McLean				Signature [Signature]		Date Month Day Year 5 3 22	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Tadrian Tucker				Signature [Signature]		Date Month Day Year 3 3 22	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date Month Day Year 1 1 1	
19. Day Inventory Indication Space							
20. Facility Owner or Operator Certification of receipt of the waste materials covered by this manifest, except as noted in item 19							
Printed/Typed Name				Signature		Date Month Day Year 5 13 22	

NON-HAZARDOUS WASTE



Oakridge Landfill
2175 Highway 78
Dorchester, SC, 29437
Ph: (843) 563-4587

Original
Ticket# 1140041

Customer Name CLEANHARBORS611818SC CLEAN HA Carrier Clean Harbors
Ticket Date 05/10/2022 Vehicle# 305019-20yd Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001475
State Waste Code Gen EPA ID NA
Manifest 611818sc Grid
Destination
PO pending approval
Profile 611818SC (NON HAZARDOUS SOIL (WM012A))
Generator 126-DELEVANSPRAYTECH DELEVAN SPRAY TECHNOLOGIES-4334 Main Hwy.

	Time	Scale	Operator	Inbound	Gross	
In	05/10/2022 09:34:18	S2	nsmith13		Tare	67160 lb
Out	05/10/2022 10:21:31	S3	nsmith13		Net	33820 lb
					Tons	33340 lb
						16.67

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Special Misc-Tons-	100	16.67	Tons				05-BAMBERG
2 EVF-P6-Environment	100		%				05-BAMBERG

Total Tax
Total Ticket

Driver's Signature

Teddy Walker

WAS 143
(2)

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

LEX 2108824431-001

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. SCD078061124		Manifest Document No. W40041		2. Page 1 of 1	
3. Generator's Name and Mailing Address Delavan Spray Technologies 4334 Main Highway Bamberg SC 29003 4. Generator's Phone ((804) 245-5580				Site Address : SAME			
5. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.		6. US EPA ID Number MAD039322250		A. State Transporter's ID		B. Transporter 1 Phone (781) 792-5000	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter 2 Phone	
9. Designated Facility Name and Site Address Waste Management Incorporated OAKIDGE LANDFILL 374 Sandy Pines Lane 2175 Highway 78 Dorchester, SC 29437		10. US EPA ID Number		E. State Facility's ID		F. Facility's Phone	
11. WASTE DESCRIPTION				Containers No. Type		13. Total Quantity	
a. NON HAZARDOUS, NON D.O.T. REGULATED, (SOIL)				1 CM		20	
b.							
c.							
d. 1140041						16.67	
G. Additional Descriptions for Materials Listed Above 11a.611818SC				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information W221548498				EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Delavan Spray Technologies			
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Todd McLeod				Signature <i>[Signature]</i>		Date Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Trelvis Luckey</i>		Date Month Day Year 5 10 22	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				Signature <i>[Signature]</i>		Date Month Day Year 5 10 22	

NON-HAZARDOUS WASTE

TRANSPORTER

FACILITY



Oakridge Landfill
2175 Highway 78
Dorchester, SC, 29437
Ph: (843) 563-4587

Original
Ticket# 1140119

Customer Name CLEANHARBORS611818SC CLEAN HA Carrier Clean Harbors
Ticket Date 05/10/2022 Vehicle# 305019-20yd Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0001475
State Waste Code Gen EPA ID NA
Manifest 611818sc Grid
Destination
PO pending approval
Profile 611818SC (NON HAZARDOUS SOIL (WM012A))
Generator 126-DELEVANSPRAYTECH DELEVAN SPRAY TECHNOLOGIES-4334 Main Hwy.

	Time	Scale	Operator	Inbound	Gross	
In	05/10/2022 14:03:11	S2	nsmith13		Tare	69400 lb
Out	05/10/2022 14:42:49	S3	nsmith13		Net	34140 lb
					Tons	35260 lb
						17.63

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Special Misc-Tons-	100	17.63	Tons				05-BAMBERG
2 EVF-P6-Environment	100		%				05-BAMBERG

was 143

3

Total Tax
Total Ticket

Driver's Signature

Talvir Lohar