

Commonwealth of Virginia  
Division of Consolidated Laboratory Services

600 North 5th St.  
Richmond, Virginia 23219  
804-648-4480



REPORT OF ANALYSIS

Report Date: 07/16/2021  
DCLS LIMS #: E210702321

Mail To

DEQ-OFFICE OF AIR PROGRAMS  
4949-C COX RD  
GLEN ALLEN, VA 23060

Sample Information

|               |                  |                  |                                      |
|---------------|------------------|------------------|--------------------------------------|
| DATE RECEIVED | 07/13/2021 10:19 | PROGRAM CODE     | AM                                   |
| SAMPLING DATE | 07/08/2021 17:35 | STATION ID       | BRISTOL LANDFILL                     |
| COLLECTED BY  | STACY A. BOWERS  | CONTAINER ID     | 402                                  |
| SAMPLE MATRIX | Air              | REGION CODE      | 404                                  |
| ORDERED TEST  | TO15             | STATION LOCATION | BRISTOL VIRGINIA LANDFILL LOCATION 4 |
| REPORT BDL    | Y                |                  | COMMERCIAL                           |
|               |                  | LOCATION         | BRISTOL VIRGINIA LANDFILL            |
|               |                  | SAMPLE ID        | B070821                              |

Test Results

APPROVED BY: THARRIS, Analyst4 DATE APPROVED: 07/16/2021

| <u>METHOD</u>   | <u>PARAMETER</u>                                                                                                                                                                                                   | <u>RESULT</u> | <u>AQS</u> | <u>ANALYSIS DATE</u> |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------|
| <u>EPA TO15</u> |                                                                                                                                                                                                                    |               |            |                      |
|                 | Non-Target Compounds                                                                                                                                                                                               | Found         |            | 07/13/2021           |
|                 | Identified: Propane, Acetaldehyde, Butane, Ethanol, Acetone, Isopropyl Alcohol, Pentane, 1,2-Pentadiene, 2-pentene, 2-butanone, Hexanal, Alpha pinene, Octanal, 1,4-dimethyl-benzene, Nonanal, Undecane, Dodecane. |               |            |                      |
|                 | Propylene                                                                                                                                                                                                          | 0.40 ppbV     | 43205      | 07/13/2021           |
|                 | Dichlorodifluoromethane                                                                                                                                                                                            | 0.53 ppbV     | 43823      | 07/13/2021           |
|                 | Chloromethane                                                                                                                                                                                                      | 0.63 ppbV     | 43801      | 07/13/2021           |
|                 | Freon 114                                                                                                                                                                                                          | < 0.125 ppbV  | 43208      | 07/13/2021           |
|                 | Vinyl Chloride                                                                                                                                                                                                     | < 0.125 ppbV  | 43860      | 07/13/2021           |
|                 | 1,3-Butadiene                                                                                                                                                                                                      | < 0.125 ppbV  | 43218      | 07/13/2021           |
|                 | Bromomethane                                                                                                                                                                                                       | < 0.125 ppbV  | 43819      | 07/13/2021           |
|                 | Ethyl Chloride                                                                                                                                                                                                     | < 0.125 ppbV  | 43812      | 07/13/2021           |
|                 | Acetonitrile                                                                                                                                                                                                       | < 0.125 ppbV  | 43702      | 07/13/2021           |
|                 | Acrolein                                                                                                                                                                                                           | 0.68 ppbV     | 43505      | 07/13/2021           |
|                 | Freon 11                                                                                                                                                                                                           | 0.25 ppbV     | 43811      | 07/13/2021           |
|                 | Acrylonitrile                                                                                                                                                                                                      | < 0.125 ppbV  | 43704      | 07/13/2021           |
|                 | 1,1-Dichloroethene                                                                                                                                                                                                 | < 0.125 ppbV  | 43826      | 07/13/2021           |
|                 | Methylene Chloride                                                                                                                                                                                                 | 0.10 ppbV     | 43802      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.                                                                                                 |               |            |                      |
|                 | 1,1,2-Trichlorotrifluoroethane                                                                                                                                                                                     | 0.07 ppbV     | 43207      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.                                                                               |               |            |                      |
|                 | trans-1,2-Dichloroethene                                                                                                                                                                                           | < 0.125 ppbV  | 43838      | 07/13/2021           |
|                 | 1,1-Dichloroethane                                                                                                                                                                                                 | < 0.125 ppbV  | 43813      | 07/13/2021           |
|                 | MTBE                                                                                                                                                                                                               | < 0.125 ppbV  | 43372      | 07/13/2021           |
|                 | cis-1,2-Dichloroethene                                                                                                                                                                                             | < 0.125 ppbV  | 43839      | 07/13/2021           |
|                 | Hexane                                                                                                                                                                                                             | 0.18 ppbV     | 43231      | 07/13/2021           |
|                 | Trichloromethane                                                                                                                                                                                                   | 0.02 ppbV     | 43803      | 07/13/2021           |

Explanation of Terms and Disclaimers

Test Results meet all requirements of TNI 2009. Non-TNI 2009 accredited analyses noted by ^^The results included on this report relate only to this specific sample and not to other samples tested from this sampling location.

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**Test Results**

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DATE APPROVED: 07/16/2021

| <u>METHOD</u>   | <u>PARAMETER</u>                                                                                                                     | <u>RESULT</u> | <u>AQS</u> | <u>ANALYSIS DATE</u> |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------|
| <u>EPA TO15</u> |                                                                                                                                      |               |            |                      |
|                 | PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.                   |               |            |                      |
|                 | Ethyl Acetate                                                                                                                        | 0.33 ppbV     | 43209      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: CCV recovery exceeded the method acceptance limit. Analyte could be biased high.                                |               |            |                      |
|                 | Tetrahydrofuran                                                                                                                      | < 0.125 ppbV  | 46401      | 07/13/2021           |
|                 | 1,2-Dichloroethane                                                                                                                   | < 0.125 ppbV  | 43815      | 07/13/2021           |
|                 | 1,1,1-Trichloroethane                                                                                                                | < 0.125 ppbV  | 43814      | 07/13/2021           |
|                 | Benzene                                                                                                                              | 0.16 ppbV     | 45201      | 07/13/2021           |
|                 | Carbon Tetrachloride                                                                                                                 | 0.07 ppbV     | 43804      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | Cyclohexane                                                                                                                          | 0.04 ppbV     | 43248      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | 1,2-Dichloropropane                                                                                                                  | 0.09 ppbV     | 43829      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | Bromodichloromethane                                                                                                                 | < 0.125 ppbV  | 43828      | 07/13/2021           |
|                 | Trichloroethylene                                                                                                                    | 0.07 ppbV     | 43824      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | Methyl Methacrylate                                                                                                                  | < 0.125 ppbV  | 43441      | 07/13/2021           |
|                 | Heptane                                                                                                                              | 0.11 ppbV     | 43232      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | cis-1,3-Dichloropropene                                                                                                              | < 0.125 ppbV  | 43831      | 07/13/2021           |
|                 | trans-1,3-Dichloro-1-propene                                                                                                         | < 0.125 ppbV  | 43830      | 07/13/2021           |
|                 | 1,1,2-Trichloroethane                                                                                                                | < 0.125 ppbV  | 43820      | 07/13/2021           |
|                 | Toluene                                                                                                                              | 0.56 ppbV     | 45202      | 07/13/2021           |
|                 | Dibromochloromethane                                                                                                                 | < 0.125 ppbV  | 43832      | 07/13/2021           |
|                 | 1,2-Dibromoethane                                                                                                                    | < 0.125 ppbV  | 43843      | 07/13/2021           |
|                 | Tetrachloroethylene                                                                                                                  | < 0.125 ppbV  | 43817      | 07/13/2021           |
|                 | Chlorobenzene                                                                                                                        | < 0.125 ppbV  | 45801      | 07/13/2021           |
|                 | Ethylbenzene                                                                                                                         | 0.12 ppbV     | 45203      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | m,p-Xylenes                                                                                                                          | 0.40 ppbV     | 45109      | 07/13/2021           |
|                 | Bromoform                                                                                                                            | < 0.125 ppbV  | 43806      | 07/13/2021           |
|                 | Styrene                                                                                                                              | 1.28 ppbV     | 45220      | 07/13/2021           |
|                 | 1,1,2,2-Tetrachloroethane                                                                                                            | < 0.125 ppbV  | 43818      | 07/13/2021           |
|                 | o-Xylene                                                                                                                             | 0.16 ppbV     | 45204      | 07/13/2021           |

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|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------|
| <u>EPA TO15</u> |                                                                                                                                      |               |            |                      |
|                 | 4-Ethyltoluene                                                                                                                       | 0.13 ppbV     | 45213      | 07/13/2021           |
|                 | 1,3,5-Trimethylbenzene                                                                                                               | 0.05 ppbV     | 45207      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value. |               |            |                      |
|                 | 1,2,4-Trimethylbenzene                                                                                                               | 0.24 ppbV     | 45208      | 07/13/2021           |
|                 | 1,3-Dichlorobenzene                                                                                                                  | 0.01 ppbV     | 45806      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.                   |               |            |                      |
|                 | 1,4-Dichlorobenzene                                                                                                                  | 0.04 ppbV     | 45807      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.                   |               |            |                      |
|                 | 1,2-Dichlorobenzene                                                                                                                  | 0.02 ppbV     | 45805      | 07/13/2021           |
|                 | PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.                   |               |            |                      |
|                 | 1,2,4-Trichlorobenzene                                                                                                               | < 0.250 ppbV  | 45810      | 07/13/2021           |
|                 | Hexachloro-1,3-Butadiene                                                                                                             | < 0.125 ppbV  | 43844      | 07/13/2021           |

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