

Commonwealth of Virginia  
Division of Consolidated Laboratory Services

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



REPORT OF ANALYSIS

Report Date: 11/01/2021  
DCLS LIMS #: E211004729

Mail To

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

Sample Information

DATE RECEIVED	10/26/2021 14:18	PROGRAM CODE	BR
SAMPLING DATE	10/23/2021 23:00	STATION ID	BRISTOL LANDFILL
COLLECTED BY	STACY A. BOWERS	CONTAINER ID	346
SAMPLE MATRIX	Air	REGION CODE	404
ORDERED TEST	TO15	STATION LOCATION	BRISTOL LANDFILL LOCATION # 9
REPORT BDL	Y	LOCATION	BRISTOL LANDFILL
		SAMPLE ID	B102321

Test Results

APPROVED BY: GJOHNSON, Analyst DATE APPROVED: 11/01/2021

METHOD	PARAMETER	RESULT	AQS	ANALYSIS DATE
<u>EPA TO15</u>				
	Non-Target Compounds	Found		10/27/2021
	identified: Dimethyl ether, Butane, Ethanol, Acetone, Pentane, Dimethyl sulfide, 2-Butanone, 2-methyl Furan, 4-4-dimethyl-2-Pentyne, dimethyl Disulfide, Octane, Nonane, 2,3-dimethyl Cyclohexnone, alpha Pinene, Decane, D-Limonene.			
	Propylene	1.82 ppbV	43205	10/27/2021
	Dichlorodifluoromethane	0.54 ppbV	43823	10/27/2021
	Chloromethane	0.42 ppbV	43801	10/27/2021
	Freon 114	< 0.125 ppbV	43208	10/27/2021
	Vinyl Chloride	< 0.125 ppbV	43860	10/27/2021
	1,3-Butadiene	< 0.125 ppbV	43218	10/27/2021
	Bromomethane	< 0.125 ppbV	43819	10/27/2021
	Ethyl Chloride	< 0.125 ppbV	43812	10/27/2021
	Acetonitrile	< 0.125 ppbV	43702	10/27/2021
	Acrolein	< 0.250 ppbV	43505	10/27/2021
	PARAMETER QUALIFIER: CCV recovery was less than the method acceptance limit. Analyte could be biased low.			
	Freon 11	0.30 ppbV	43811	10/27/2021
	Acrylonitrile	< 0.125 ppbV	43704	10/27/2021
	1,1-Dichloroethene	< 0.125 ppbV	43826	10/27/2021
	Methylene Chloride	0.12 ppbV	43802	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	1,1,2-Trichlorotrifluoroethane	0.08 ppbV	43207	10/27/2021
	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	10/27/2021
	1,1-Dichloroethane	< 0.125 ppbV	43813	10/27/2021
	MTBE	< 0.125 ppbV	43372	10/27/2021
	cis-1,2-Dichloroethene	< 0.125 ppbV	43839	10/27/2021

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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<u>METHOD</u>	<u>PARAMETER</u>	<u>RESULT</u>	<u>AQS</u>	<u>ANALYSIS DATE</u>
<u>EPA TO15</u>				
	Hexane	0.12 ppbV	43231	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Trichloromethane	0.03 ppbV	43803	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Ethyl Acetate	0.10 ppbV	43209	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Tetrahydrofuran	1.01 ppbV	46401	10/27/2021
	1,2-Dichloroethane	< 0.125 ppbV	43815	10/27/2021
	1,1,1-Trichloroethane	0.01 ppbV	43814	10/27/2021
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	Benzene	9.53 ppbV	45201	10/27/2021
	Carbon Tetrachloride	0.06 ppbV	43804	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Cyclohexane	0.06 ppbV	43248	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	1,2-Dichloropropane	< 0.125 ppbV	43829	10/27/2021
	Bromodichloromethane	< 0.125 ppbV	43828	10/27/2021
	Trichloroethylene	< 0.125 ppbV	43824	10/27/2021
	Methyl Methacrylate	< 0.125 ppbV	43441	10/27/2021
	Heptane	0.11 ppbV	43232	10/27/2021
	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	10/27/2021
	trans-1,3-Dichloro-1-propene	< 0.125 ppbV	43830	10/27/2021
	1,1,2-Trichloroethane	< 0.125 ppbV	43820	10/27/2021
	Toluene	1.30 ppbV	45202	10/27/2021
	Dibromochloromethane	< 0.125 ppbV	43832	10/27/2021
	1,2-Dibromoethane	< 0.125 ppbV	43843	10/27/2021
	Tetrachloroethylene	0.03 ppbV	43817	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	Chlorobenzene	< 0.125 ppbV	45801	10/27/2021
	Ethylbenzene	1.09 ppbV	45203	10/27/2021
	m,p-Xylenes	0.87 ppbV	45109	10/27/2021
	Bromoform	< 0.125 ppbV	43806	10/27/2021
	Styrene	0.11 ppbV	45220	10/27/2021

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<u>EPA TO15</u>				
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	1,1,2,2-Tetrachloroethane	< 0.125 ppbV	43818	10/27/2021
	o-Xylene	0.31 ppbV	45204	10/27/2021
	4-Ethyltoluene	< 0.125 ppbV	45213	10/27/2021
	1,3,5-Trimethylbenzene	0.11 ppbV	45207	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	1,2,4-Trimethylbenzene	0.32 ppbV	45208	10/27/2021
	1,3-Dichlorobenzene	0.05 ppbV	45806	10/27/2021
	PARAMETER QUALIFIER: Value between SQL and MDL; A result reported below the reporting level should be considered an estimated value.			
	1,4-Dichlorobenzene	0.09 ppbV	45807	10/27/2021
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	1,2-Dichlorobenzene	0.05 ppbV	45805	10/27/2021
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	1,2,4-Trichlorobenzene	0.15 ppbV	45810	10/27/2021
	PARAMETER QUALIFIER: CCV recovery was less than the method acceptance limit. Analyte could be biased low.			
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			
	Hexachloro-1,3-Butadiene	0.02 ppbV	43844	10/27/2021
	PARAMETER QUALIFIER: Value less than MDL; A result reported below the MDL should be considered an estimated value.			

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