## Water Sciences Laboratory Analyte/Protocol Price List 2024



## **Environmental**:: Direct Injection

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3		Reporting	Protocol	NU Cost
Protocol	Analyte	Limit	Cost	(20% discount)
Municipal Wastewater/Illicit Compounds	1,7-Dimethylxanthine	2 μg/L	\$115.50	\$92.40
(Direct Injection)	Acetaminophen	0.1 μg/L		
Protocol ID: 20_01_13	Amphetamine	0.1 μg/L		
11000001111. 20_01_13	Azithromycin	0.7 μg/L		
Sample Container: 2 mL GC Vial	Carbamazepine	0.05 μg/L		
Sample Size: 2 mL	Cotinine	0.02 μg/L		
Preservation: Frozen	Diphenhydramine	0.2 μg/L		
Holding Time: 30 Days	Hydrocodone	0.2 μg/L		
Estimated Turnaround Time: 6-8 Weeks	MDA	0.10 μg/L		
References:	MDA	0.08 μg/L		
Kasprzyk-Hordern, B.; Dinsdal, R. M.; Guwy, A. J. (2007),	Metaxalone	0.1 μg/L		
"Multi-residue method for the determination of basic/neutral	Methadone	0.06 μg/L		
pharmaceuticals and illicit drugs in surface water by solid-phase	Methamphetamine	$0.07~\mu g/L$		
extraction and ultra performance liquid chromatography–positive	Morphine	0.09 μg/L		
electrospray ionisation tandem mass spectrometry", <i>J. Chromatogr.</i>	Oxycodone	0.1 μg/L		
A 1161(1-2), 132-145.	Phenazone	$0.09~\mu g/L$		
Berset, J.; Brenneisen, R.; Mathieu, C. (2010), "Analysis of Ilicit and	Phenazone	0.3 μg/L		
illicit drugs in waste, surface and lake water samples using large	Sulfadiazine	0.1 μg/L		
volume direct injection high performance liquid chromatography –	Sulfadimethoxine	$0.07~\mu g/L$		
electrospray tandem mass spectrometry (HPLC-MS/MS)",	Sulfamethazine	0.1 μg/L		
Chemosphere <b>81</b> (7), 859-866.	Sulfamethoxazole	0.1 μg/L		
	Temazepam	$0.08~\mu g/L$		
	Thiabendazole	$0.09~\mu g/L$		
	Trimethoprim	$0.10~\mu g/L$		

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Neonicotinoid/Strobularin Pesticides (Direct Injection) Protocol ID: 20_02_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	6-Chloronicotinic acid 6-Chloronicotinic aldehyde 6-Chloro-N-methylnicotinamide Acetamiprid Azoxystrobin Clothianidin Dimethoate Dinotefuran Imidacloprid desnitro Imidacloprid olefin Imidacloprid urea Indoxacarb Metalaxyl Picoxystrobin Pyraclostrobin Sulfoxaflor Thiacloprid Thiamethoxam Thiamethoxam urea Trifloxystrobin	0.5 µg/L 0.3 µg/L 0.2 µg/L 0.1 µg/L 0.2 µg/L 0.2 µg/L 0.08 µg/L 0.1 µg/L 0.3 µg/L 0.1 µg/L 0.5 µg/L 0.2 µg/L 0.07 µg/L 0.10 µg/L 0.20 µg/L 0.20 µg/L 0.10 µg/L	\$115.50	\$92.40
Oxanilic Acids/Ethanesulfonic Acids (OAESA) (Direct Injection) Protocol ID: 20_06_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	Hydroxychlorthalonil Acetochlor ESA Acetochlor OA Alachlor ESA Alachlor OA Metolachlor ESA Metolachlor OA Propachlor ESA	4 μg/L 5 μg/L 0.5 μg/L 0.4 μg/L 0.2 μg/L 0.7 μg/L 0.6 μg/L 0.08 μg/L	\$115.50	\$92.40
Municipal Wastewater - Ethanol Sulfates/Glucuronides (Direct Injection) Protocol ID: 20_07_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL	Ethyl glucuronide Ethyl sulfate	0.9 μg/L 0.2 μg/L	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Preservation: Cool, < 6°C Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks				
Perfluoronated Acids (PFAS) EPA 537.1 (Direct Injection) Protocol ID: 20_08_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks  Reference: (2018), "EPA 537.1 Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)".	11CI-PF3OUdS 9CI-PF3ONS ADONA HFPO-DA NEtFOSAA NMeFOSAA PFBS PFDA PFDoA PFHpA PFHxA PFHxS PFNA PFOA PFOA PFOA PFOA	0.07 µg/L 0.02 µg/L 0.04 µg/L 0.05 µg/L 0.2 µg/L 0.03 µg/L 0.09 µg/L 0.03 µg/L 0.03 µg/L 0.03 µg/L 0.04 µg/L 0.03 µg/L 0.04 µg/L 0.1 µg/L 0.03 µg/L 0.06 µg/L 0.09 µg/L 0.09 µg/L 0.09 µg/L 0.09 µg/L 0.09 µg/L	\$115.50	\$92.40
Azole Fungicides and Abamectin (Direct Injection) Protocol ID: 20_09_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	Abamectin NH4 Brassinazole Cyproconazole Desthio-Prothioconazole Difenoconazole Fluconazole Ipconazole Isavuconazole Itraconazole Metconazole Posaconazole Propiconazole Prothioconazole Tebuconazole Thiabendazole	4 μg/L 0.03 μg/L 0.02 μg/L 0.02 μg/L 0.1 μg/L 0.02 μg/L 0.02 μg/L 0.06 μg/L 0.9 μg/L 0.3 μg/L 0.3 μg/L 0.4 μg/L 0.5 μg/L 0.7 μg/L 0.9 μg/L 0.9 μg/L 0.1 μg/L 0.1 μg/L 0.1 μg/L	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
EPA 1694 Group 1 (Human Usage) (Direct	1,7-Dimethylxanthine	14 μg/L	\$115.50	\$92.40
	Acetaminophen	1 μg/L		
Injection)	Ampicillin	1 μg/L		
Protocol ID: 20_11_13	Azithromycin	1 μg/L		
Sample Container: 2 mL GC Vial	Caffeine	14 μg/L		
Sample Size: 2 mL	Carbamazepine	1 μg/L		
Preservation: Frozen	Ciprofloxacin	3 μg/L		
Holding Time: 30 Days	Clarithromycin	2 μg/L		
Estimated Turnaround Time: 6-8 Weeks	Clinafloxacin	3 μg/L		
Reference	Codeine	1 μg/L		
Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in	Cotinine	0.1 μg/L		
Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Danofloxacin	2 μg/L		
	Dehydronifedipine	1 μg/L		
	Digoxigenin	4 μg/L		
	Digoxin	5 μg/L		
	Diltiazem	7 μg/L		
	Diphenhydramine	0.5 μg/L		
	Enrofloxacin	3 μg/L		
	Erythromycin	3 μg/L		
	Flumequine	0.5 μg/L		
	Fluoxetine	1.0 μg/L		
	Lincomycin	0.9 μg/L		
	Lomefloxacin	1 μg/L		
	Miconazole	0.8 μg/L		
	Norfloxacin	2 μg/L		
	Norgestimate	5 μg/L		
	Ofloxacin	3 μg/L		
	Ormetoprim	0.5 μg/L		
	Oxacillin	12 μg/L		
	Penicillin G	22 μg/L		
	Penicillin V	175 μg/L		
	Penillic Acid	9 μg/L		
	Phenazone	0.7 μg/L		
	Roxithromycin	1 μg/L		
	Sarafloxacin	2 μg/L		
	Sucralose	21 μg/L		
	Sulfachlorpyridazine	2 μg/L		
	Sulfadiazine	0.8 μg/L		
	Sulfadimethoxine	1 μg/L		

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	Sulfamerazine Sulfamethazine Sulfamethiazole Sulfamethoxazole Sulfamilamide Sulfathiazole Thiabendazole Trimethoprim	1 μg/L 1 μg/L 3 μg/L 2 μg/L 4 μg/L 1 μg/L 0.3 μg/L 1 μg/L		
EPA 1694 Group 2 (Direct Injection) Protocol ID: 20_12_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks  Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Anhydrochlortetracycline (ACTC) Anhydrotetracycline (ATC) Chlortetracycline (CTC) Demeclocycline Doxycycline Epianhydrochlortetracycline (EACTC) Epichlortetracycline (ECTC) Epichytetracycline (EOTC) Epitetracycline Isochlortetracycline (ICTC) Minocycline Oxytetracycline (OTC) Tetracycline (TC)	Pending	\$115.50	\$92.40
EPA 1694 Group 3 (Direct Injection) Protocol ID: 20_13_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks  Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Gemfibrozil Ibuprofen Naproxen Triclocarban Triclosan Warfarin	Pending Pending Pending Pending Pending Pending	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
EPA 1694 Group 4 (Direct Injection) Protocol ID: 20_14_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks  Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Albuterol Cimetidine Metformin Ranitidine	Pending Pending Pending Pending	\$115.50	\$92.40
Atrazine Metabolites and Nitrosoatrazine (Direct Injection) Protocol ID: 20_16_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	Atrazine Atrazine Mercapturate DDA DEA DIA N-Nitrosoatrazine	0.04 μg/L 0.2 μg/L 0.1 μg/L 0.01 μg/L 0.03 μg/L 0.008 μg/L	\$115.50	\$92.40
Perfluoronated Acids (PFAS) EPA 1633 (Direct Injection) Protocol ID: 20_17_13  Sample Container: 2 mL Polypropylene GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks  References: (2023), "EPA 1633 Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS".  "Method developed internally at WSL",	11CI-PF3OUdS 3:3FTCA 4:2FTS 5:3FTCA 6:2FTS 7:3FTCA 8:2FTS 9CI-PF3ONS ADONA HFPO-DA NEtFOSA NEtFOSA NEtFOSA NEtFOSE NFDHA NMeFOSA NMeFOSA NMeFOSA	0.04 μg/L 0.08 μg/L 0.1 μg/L 0.3 μg/L 0.09 μg/L 0.6 μg/L 0.1 μg/L 0.05 μg/L 0.09 μg/L 0.09 μg/L 0.09 μg/L 0.09 μg/L 0.01 μg/L 0.04 μg/L 0.05 μg/L 0.09 μg/L 0.109 μg/L 0.109 μg/L 0.101 μg/L 0.101 μg/L 0.11 μg/L	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	PFBA PFBS PFDA PFDoA PFDoA PFDoS PFDS PFEESA PFHpA PFHpS PFHxA PFHxS PFMBA PFMPA PFNS PFNS PFOA PFOS PFOSA PFPeA PFPeS PFTeDA PFTrDA PFUnA	0.03 µg/L 0.02 µg/L 0.02 µg/L 0.02 µg/L 0.03 µg/L 0.04 µg/L 0.03 µg/L 0.01 µg/L 0.01 µg/L 0.02 µg/L 0.06 µg/L 0.03 µg/L 0.04 µg/L 0.09 µg/L 0.01 µg/L 0.01 µg/L 0.02 µg/L 0.02 µg/L 0.01 µg/L 0.01 µg/L 0.01 µg/L 0.01 µg/L 0.01 µg/L 0.02 µg/L 0.01 µg/L 0.02 µg/L 0.01 µg/L 0.02 µg/L 0.02 µg/L 0.02 µg/L 0.02 µg/L 0.02 µg/L 0.01 µg/L 0.02 µg/L 0.02 µg/L		
Fenitrothion (Direct Injection) Protocol ID: 20_18_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	4-nitro-3-cresol Fenitrothion Fenitrothion-oxon	0.2 μg/L 0.4 μg/L 0.003 μg/L	\$115.50	\$92.40
EPA 1694 Group 1 (Veterinary Usage) (Direct Injection) Protocol ID: 20_21_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL	Ampicillin Azithromycin Carbadox Cefotaxime Ceftiofur Ciprofloxacin	0.5 μg/L 0.4 μg/L 0.4 μg/L 7 μg/L 6 μg/L 1 μg/L	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Preservation: Frozen	Clarithromycin	0.6 μg/L		
Holding Time: 30 Days	Danofloxacin	0.7 μg/L		
Estimated Turnaround Time: 6-8 Weeks	DCCD	5 μg/L		
Deference:	Erythromycin	0.2 μg/L		
Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in	Florfenicol	4 μg/L		
Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Lincomycin	0.3 μg/L		
	Monensin	3 μg/L		
	Novobiocin	44 μg/L		
	Ormetoprim	0.2 μg/L		
	Oxacillin	4 μg/L		
	Oxolinic acid	0.2 μg/L		
	Penicillin G	7 μg/L		
	Penicillin V	58 μg/L		
	Penillic Acid	3 μg/L		
	Roxithromycin	0.4 μg/L		
	Sulfachlorpyridazine	0.7 μg/L		
	Sulfadiazine	0.3 μg/L		
	Sulfadimethoxine	0.5 μg/L		
	Sulfamerazine	0.5 μg/L		
	Sulfamethazine	0.5 μg/L		
	Sulfamethiazole	0.8 μg/L		
	Sulfamethoxazole	0.5 μg/L		
	Sulfanilamide	1 μg/L		
	Sulfathiazole	0.5 μg/L		
	Thiabendazole	0.1 μg/L		
	Tiamulin	0.2 μg/L		
	Trimethoprim	0.4 μg/L		
	Tylosin	0.5 μg/L		
	Virginiamycin	4 μg/L		
Neonicotinoid Mammalian Metabolites	5-hydroxy imidacloprid	Pending	\$115.50	\$92.40
(Direct Injection)	6-chloronicotinic acid	Pending		
	Acetamiprid	Pending		
Protocol ID: 20_22_13	Acetamiprid n-desmethyl	Pending		
Sample Container: 2 mL GC Vial	Clothianidin	Pending		
Sample Size: 2 mL	Clothianidin n-desmethyl	Pending		
Preservation: Cool, < 6°C	Clothianidin urea	Pending		
Holding Time: 30 Days	Dinotefuran	Pending		
Estimated Turnaround Time: 6-8 Weeks	Imidacloprid	Pending		

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	Imidacloprid desnitro Imidacloprid olefin Imidacloprid urea Nitenpyram Thiacloprid Thiacloprid Thiamethoxam Thiamethoxam n-desmethyl Thiamethoxam urea	Pending		
Negative Ion Agrochemicals (Direct Injection) Protocol ID: 20_23_13  Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks  Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	2,4-D (2,4-Dichlorophenoxyacetic acid) 6-Chloropicolinic acid Dicamba	Pending Pending Pending	\$115.50	\$92.40