Water Sciences Laboratory Analyte/Protocol Price List 2024



Environmental:: Extracts

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Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Agricultural Herbicides/Insecticides (POCIS/Extracts) Protocol ID: 06_01_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 14 Days Estimated Turnaround Time: 6-8 Weeks Reference: Cassada, D. A.; Spalding, R. F.; Cai, Z.; Gross, M. L. (1994), "Determination of Atrazine, Deethylatrazine and Deisopropylatrazine in Water and Sediment by Isotope Dilution Gas Chromatography-Mass Spectrometry", Anal. Chim. Acta 287, 7-15.	Acetochlor Alachlor Atrazine Butylate Chlorothalonil Cyanazine DEA DIA Dimethenamid EPTC Metolachlor Metribuzin Norflurazon Pendimethalin Permethrin Prometon Propazine Simazine Tefluthrin Trifluralin	0.1 ng	\$57.80	\$46.24
Chlorinated Insecticides (POCIS/Extracts) Protocol ID: 06_02_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample	4,4-DDE 4,4-DDT α-BHC Aldrin β-BHC δ-BHC Dieldrin γ-BHC (Lindane)	0.03 ng 0.03 ng 0.04 ng 0.05 ng 0.04 ng 0.06 ng 0.1 ng 0.07 ng	\$57.80	\$46.24

Protocol If sample weights in grams are supplied, the units will	Analyte Heptachlor	Reporting Limit 0.04 ng	Protocol Cost	NU Cost (20% discount)
Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 14 Days Estimated Turnaround Time: 6-8 Weeks References: Lopez-Avila, V.; Young, R.; Beckert, W. F. (1994), "Microwave-Assisted Extraction of Organic Compounds from Standard Reference Soils and Sediments", Anal. Chem. 66, 1097-1106. (2011), "EPA 8270 Analysis of Semivolatile Organic Compounds by Combined Gas Chromatography/Mass Spectrometry (GC/MS)".	Trifluralin	0.02 ng		
Semi-Volatile Organic Compounds (SVOCs) (POCIS/Extracts) Protocol ID: 06_03_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' 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: (2011), "EPA 8270 Analysis of Semivolatile Organic Compounds by Combined Gas Chromatography/Mass Spectrometry (GC/MS)".	2-Chloronaphthalene 2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Benzo[ghi]perylene Benzo[k]fluoranthene Carbazole Chrysene Dibenz[a,h]anthracene Dibenzofuran Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene	0.01 ng 0.02 ng 0.006 ng 0.02 ng 0.03 ng 0.02 ng 0.01 ng 0.03 ng 0.02 ng 0.01 ng 0.03 ng 0.02 ng 0.01 ng 0.01 ng 0.01 ng 0.03 ng 0.01 ng 0.01 ng 0.009 ng 0.008 ng 0.1 ng 0.1 ng 0.01 ng 0.01 ng 0.01 ng	\$57.80	\$46.24

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Comprehensive Pesticide Scan (POCIS/Extracts) Protocol ID: 06_05_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 14 Days Estimated Turnaround Time: 6-8 Weeks References: Hladik, M. L.; Kuivila, K. M. (2009), "Assessing the Occurrence and Distribution of Pyrethroids in Water and Suspended Sediments", J. Agric. Food Chem. 57 (19), 9079-9085. (1992), "EPA 614 Determination of Organophosphorus Pesticides in Municipal and Industrial Wastewater".	Acetochlor Atrazine Bifenthrin Boscalid Carbofuran Chlorpyrifos Cyfluthrin Cyhalothrin lambda Cypermethrin Cyprodinil DEA Deltamethrin DIA Diazinon Fludioxonil Malathion Methidathion Metribuzin Parathion ethyl Pendimethalin Permethrin Pyrimethanil Quinoxyfen Tebuconazole Tefluthrin Triadimefon	0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.6 ng 0.3 ng 0.07 ng 0.5 ng 0.09 ng 0.2 ng 0.07 ng 0.5 ng 0.1 ng 0.5 ng 0.1 ng 0.5 ng 0.10 ng 0.5 ng 0.10 ng 0.5 ng 0.10 ng 0.1 ng 0.2 ng 0.5 ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.06 ng 0.07 ng 0.09 ng 0.09 ng 0.09 ng 0.001 ng 0.001 ng 0.001 ng 0.002 ng 0.003 ng	\$57.80	\$46.24
Unknown Scan - GC/MS (Extracts) Protocol ID: 06_08_10 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample Sample Container: 2 mL GC Vial Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	Spectra		\$57.80	\$46.24

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Reference: Halket, J. M.; Waterman, D.; Przyborowska, A. M.; Patel, R. K. P.; Fraser, P. D.; Bramley, P. M. (2005), "Chemical derivatization and mass spectral libraries in metabolic profiling by GC/MS and LC/MS/MS", <i>J. Exp. Bot.</i> 56(4 10), 219-243.				
Municipal Wastewater/Illicit Compounds (POCIS/Extracts) Protocol ID: 20_01_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	1,7-Dimethylxanthine Acetaminophen Amphetamine Azithromycin Carbamazepine Cotinine Diphenhydramine Hydrocodone MDA MDA Metaxalone Methadone Methamphetamine Morphine Oxycodone Phenazone Sulfachloropyridazine Sulfamethazine Sulfamethoxazole Temazepam Thiabendazole Trimethoprim	0.05 ng	\$115.50	\$92.40
Neonicotinoid/Strobularin Pesticides (POCIS/Extracts) Protocol ID: 20_02_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g'	6-Chloronicotinic acid 6-Chloronicotinic aldehyde 6-Chloro-N-methylnicotinamide Acetamiprid Azoxystrobin Clothianidin Dimethoate Dinotefuran Imidacloprid Imidacloprid desnitro	0.05 ng 0.05 ng	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	Imidacloprid olefin	0.05 ng		
Sample Container: Passive sampler (POCIS)	Imidacloprid urea	0.05 ng		
Sample Size: 2 mL Preservation: Cool, < 6°C	Indoxacarb	0.05 ng		
Holding Time: 30 Days	Metalaxyl	0.05 ng		
Estimated Turnaround Time: 6-8 Weeks	Picoxystrobin	0.05 ng		
	Pyraclostrobin	0.05 ng		
	Sulfoxaflor	0.05 ng		
	Thiacloprid	0.05 ng		
	Thiamethoxam	0.05 ng		
	Thiamethoxam urea	0.05 ng		
	Trifloxystrobin	0.05 ng		
Municipal Wastewater/Opioids	1,7-Dimethylxanthine	0.05 ng	\$115.50	\$92.40
(POCIS/Extracts)	6-Monacetylmorphine	0.05 ng		
Protocol ID: 20 03 05	Amphetamine	0.05 ng		
	Azithromycin	0.05 ng		
For POCIS samples, add processing charge of \$60/sample	Carbamazepine	0.05 ng		
For samples on cartridges, add processing charge of \$30/sample	Codeine	0.05 ng		
	Cotinine	0.05 ng		
If sample weights in grams are supplied, the units will	d-Amphetamine	0.05 ng		
become 'ng/g'	Dihydrocodeine	0.05 ng		
	Diphenhydramine	0.05 ng		
Sample Container: Passive sampler (POCIS)	Fentanyl	0.05 ng		
Sample Size: 2 mL	Heroine	0.05 ng		
Preservation: Cool, < 6°C Holding Time: 30 Days	Hydrocodone	0.05 ng		
Estimated Turnaround Time: 6-8 Weeks	Hydromorphone	0.05 ng		
Estimated Fariarodia Fine: 6 6 Weeks	Metaxalone	0.05 ng		
References:	Methadone	0.05 ng		
Kasprzyk-Hordern, B.; Dinsdal, R. M.; Guwy, A. J. (2007),	Methamphetamine	0.05 ng		
"Multi-residue method for the determination of basic/neutral	Morphine Norcodiene	0.05 ng		
pharmaceuticals and illicit drugs in surface water by solid-phase extraction and ultra performance liquid chromatography–positive		0.05 ng		
electrospray ionisation tandem mass spectrometry", <i>J. Chromatogr.</i>	Norfentanyl	0.05 ng		
A 1161(1-2), 132-145.	Oxycodone	0.05 ng		
	Phenazone	0.05 ng		
Berset, J.; Brenneisen, R.; Mathieu, C. (2010), "Analysis of llicit and	Phenazone Sulfomothozino	0.05 ng		
illicit drugs in waste, surface and lake water samples using large volume direct injection high performance liquid chromatography –	Sulfamethazine Sulfamethoxazole	0.05 ng 0.05 ng		
electrospray tandem mass spectrometry (HPLC–MS/MS)",		0.05 ng 0.05 ng		
Chemosphere 81 (7), 859-866.	Temazepam Thiabendazole	0.05 ng 0.05 ng		
	1 madendazoie	v.vs ng		

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	Tramadol Trimethoprim	0.05 ng 0.05 ng		
Perfluoronated Acids (PFAS) EPA 537.1 (POCIS/Extracts) Protocol ID: 20_08_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) 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 PFOS PFTA PFTTDA PFUnA	Pending 0.05 ng	\$115.50	\$92.40
Azole Fungicides and Abamectin (POCIS/Extracts) Protocol ID: 20_09_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	Abamectin NH4 Brassinazole Cyproconazole Desthio-Prothioconazole Difenoconazole Fluconazole Ipconazole Isavuconazole Itraconazole Metconazole Posaconazole Propiconazole Propiconazole Trebuconazole Tebuconazole	0.05 ng	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
EPA 1694 Group 1 (Human Usage)	1,7-Dimethylxanthine	0.05 ng	\$115.50	\$92.40
	Acetaminophen	0.05 ng		
(POCIS/Extracts)	Ampicillin	0.05 ng		
Protocol ID: 20_11_05	Azithromycin	0.05 ng		
For POCIS samples, add processing charge of \$60/sample	Caffeine	0.05 ng		
For samples on cartridges, add processing charge of \$30/sample	Carbamazepine	0.05 ng		
The second secon	Ciprofloxacin	0.05 ng		
If sample weights in grams are supplied, the units will	Clarithromycin	0.05 ng		
become 'ng/g'	Clinafloxacin	0.05 ng		
	Codeine	0.05 ng		
Sample Container: Passive sampler (POCIS)	Cotinine	0.05 ng		
Sample Size: 2 mL	Danofloxacin	0.05 ng		
Preservation: Frozen	Dehydronifedipine	0.05 ng		
Holding Time: 60 Days	Digoxigenin	0.05 ng		
Estimated Turnaround Time: 6-8 Weeks	Digoxin	0.05 ng		
Reference:	Diltiazem	0.05 ng		
(2007), "EPA 1694 Pharmaceuticals and Personal Care Products in	Diphenhydramine	0.05 ng		
Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".	Enrofloxacin	0.05 ng		
· ·	Erythromycin	0.05 ng		
	Flumequine	0.05 ng		
	Fluoxetine	0.05 ng		
	Lincomycin	0.05 ng		
	Lomefloxicin	0.05 ng		
	Miconazole	0.05 ng		
	Norfloxacin	0.05 ng		
	Norgestimate	0.05 ng		
	Ofloxacin	0.05 ng		
	Ormetoprim	0.05 ng		
	Oxacillin	0.05 ng		
	Penicillin G	0.05 ng		
	Penicillin V	0.05 ng		
	Penillic Acid	0.05 ng		
	Phenazone	0.05 ng		
	Roxithromycin	0.05 ng		
	Sarafloxacin	0.05 ng		
	Sucralose	0.05 ng		
	Sulfachlorpyridazine	0.05 ng		
	Sulfadiazine	0.05 ng		
	Sulfadimethoxine	0.05 ng		

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	Sulfamerazine Sulfamethazine Sulfamethiazole Sulfamethoxazole Sulfanilamide Sulfathiazole Thiabendazole Trimethoprim	0.05 ng		
Protocol ID: 20_12_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) 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".	Anhydrochlortetracycline (ACTC) Anhydrotetracycline (ATC) Chlortetracycline (CTC) Demeclocycline Doxycycline Epianhydrochlortetracycline (EACTC) Epichlortetracycline (ECTC) Epichlortetracycline (EOTC) Epitetracycline Isochlortetracycline (ICTC) Minocycline Oxytetracycline (OTC) Tetracycline (TC)	Pending	\$115.50	\$92.40
EPA 1694 Group 3 (POCIS/Extracts) Protocol ID: 20_13_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) Sample Size: 2 mL Preservation: Cool, < 6°C Holding Time: 30 Days	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)
Reference: (2007), "EPA 1694 Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS".				
Protocol ID: 20_14_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) 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".	Albuterol Cimetidine Metformin Ranitidine	Pending Pending Pending Pending	\$115.50	\$92.40
Atrazine Metabolites and Nitrosoatrazine (POCIS/Extracts) Protocol ID: 20_16_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) Sample Size: 2 mL Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks	Atrazine Atrazine Mercapturate DDA DEA DIA N-nitrosoatrazine	0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng 0.05 ng	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
Perfluoronated Acids (PFAS) EPA 1633	%13C3-PFHxS	Pending	\$115.50	\$92.40
	%13C4-PFBA	Pending		
(POCIS/Extracts)	%13C4-PFHpA	Pending		
Protocol ID: 20_17_05	%13C5-PFHxA	Pending		
For POCIS samples, add processing charge of \$60/sample	%13C5-PFPeA	Pending		
For samples on cartridges, add processing charge of \$30/sample	%13C6-PFDA	Pending		
or samples on early ages, and processing earlige or specifically	%13C7-PFUnA	Pending		
If sample weights in grams are supplied, the units will	%13C8-PFOA	Pending		
become 'ng/g'	%13C8-PFOS	Pending		
	%13C8-PFOSA	Pending		
Sample Container: Passive sampler (POCIS)	%13C9-PFNA	Pending		
Sample Size: 2 mL	%D3-NMeFOSA	Pending		
Preservation: Cool, < 6°C	%D3-NMeFOSAA	Pending		
Holding Time: 60 Days	%D5-NEtFOSA	Pending		
Estimated Turnaround Time: 6-8 Weeks	%D5-NEtFOSAA	Pending		
References:	%D7-NMeFOSE	Pending		
(2023), "EPA 1633 Analysis of Per- and Polyfluoroalkyl Substances	%D9-NEtFOSE	Pending		
(PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by	11Cl-PF3OUdS	Pending		
LC-MS/MS".	3:3FTCA	Pending		
"Method developed internally at WSL",	4:2FTS	Pending		
iviethod developed internally at WSL ,	5:3FTCA	Pending		
	6:2FTS	Pending		
	7:3FTCA	Pending		
	8:2FTS	Pending		
	9Cl-PF3ONS	Pending		
	ADONA	Pending		
	HFPO-DA	Pending		
	NEtFOSA	Pending		
	NEtFOSAA	Pending		
	NEtFOSE	Pending		
	NFDHA	Pending		
	NMeFOSA	Pending		
	NMeFOSAA	Pending		
	NMeFOSE	Pending		
	PFBA	Pending		
	PFBS	Pending		
	PFDA	Pending		
	PFDoA	Pending		
	PFD ₀ S	Pending		

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	PFDS PFEESA PFHpA PFHpS PFHxA PFHxS PFMBA PFMPA PFNA PFNS PFOA PFOS PFOS PFOSA PFPeA PFPeS PFTeDA PFTrDA PFUnA	Pending		
EPA 1694 Group 1 (Veterinary Usage) (POCIS/Extracts) Protocol ID: 20_21_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) Sample Size: 2 mL Preservation: Frozen Holding Time: 60 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".	Ampicillin Azithromycin Carbadox Ceftiofur Ciprofloxacin Clarithromycin Danofloxacin DCCD Erythromycin Florfenicol Lincomycin Monensin Novobiocin Ormetoprim Oxacillin Oxolinic acid Penicillin G Penicillin V Penillic Acid Roxithromycin	0.05 ng	\$115.50	\$92.40

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
	Sulfachlorpyridazine Sulfadiazine Sulfadimethoxine Sulfamerazine Sulfamethazine Sulfamethiazole Sulfamethoxazole Sulfanilamide Sulfathiazole Thiabendazole Tiamulin Trimethoprim Tylosin Virginiamycin	0.05 ng		
Neonicotinoid Mammalian Metabolites (POCIS/Extracts) Protocol ID: 20_22_05 For POCIS samples, add processing charge of \$60/sample For samples on cartridges, add processing charge of \$30/sample If sample weights in grams are supplied, the units will become 'ng/g' Sample Container: Passive sampler (POCIS) Sample Size: 2 mL Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks	5-hydroxy imidacloprid 6-chloronicotinic acid Acetamiprid Acetamiprid n-desmethyl Clothianidin Clothianidin n-desmethyl Clothianidin urea Dinotefuran Imidacloprid Imidacloprid desnitro Imidacloprid olefin Imidacloprid urea Nitenpyram Thiacloprid Thiacloprid amide Thiamethoxam Thiamethoxam n-desmethyl Thiamethoxam urea	0.05 ng	\$115.50	\$92.40