



State of Florida
 Department of Health, Bureau of Public Health Laboratories
 This is to certify that

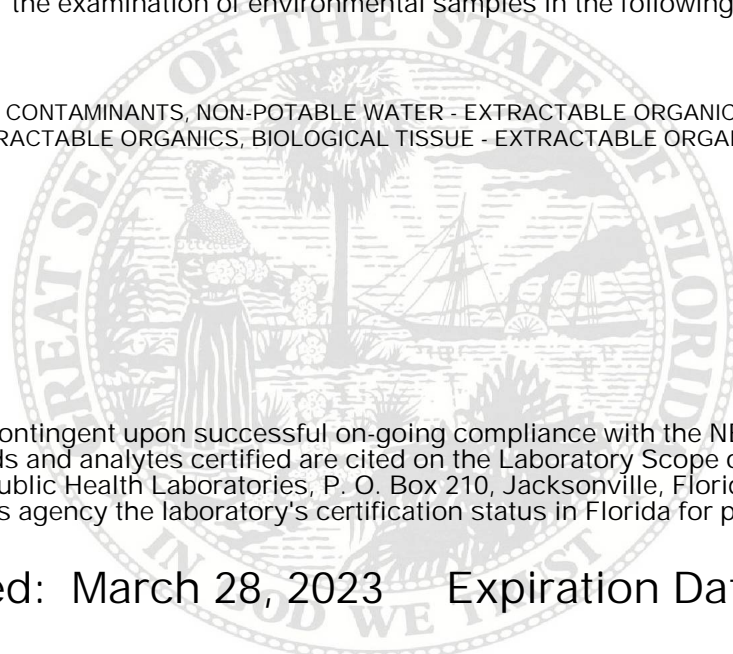


E87777

ENTHALPY ANAYTICAL LLC
 1104 WINDFIELD WAY
 EL DORADO HILLS, CA 95762

has complied with Florida Administrative Code 64E-1,
 for the examination of environmental samples in the following categories

DRINKING WATER - GROUP III UNREGULATED CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, BIOLOGICAL TISSUE - EXTRACTABLE ORGANICS



Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: March 28, 2023 Expiration Date: June 30, 2023



Susanne Crowe

Susanne Crowe, MHA
 Interim Chief Bureau of Public Health Laboratories
 DH Form 1697, 7/04
 NON-TRANSFERABLE E87777-31-03/28/2023
 Supersedes all previously issued certificates



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777
Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762

Matrix: **Drinking Water**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
9490	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic Acid (11-CIPF30UdS)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
4846	2-(N-Ethyl-perfluorooctane sulfonamido) acetic acid	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
4846	2-(N-Ethyl-perfluorooctane sulfonamido) acetic acid	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
4847	2-(N-Methyl-perfluorooctane sulfonamido) acetic acid	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
4847	2-(N-Methyl-perfluorooctane sulfonamido) acetic acid	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6951	4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid (9-CIPF30NS)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
9460	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA, GenX)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6911	Perfluorobutane Sulfonate (PFBS, Perfluorobutane Sulfonic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6911	Perfluorobutane Sulfonate (PFBS, Perfluorobutane Sulfonic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6921	Perfluorodecanoate (PFDA, Perfluorodecanoic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6921	Perfluorodecanoate (PFDA, Perfluorodecanoic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6924	Perfluorododecanoate (PFDoA, Pefluorododecanoic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6924	Perfluorododecanoate (PFDoA, Pefluorododecanoic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6926	Perfluoroheptanoate (PFHpA, Perfluoroheptanoic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6926	Perfluoroheptanoate (PFHpA, Perfluoroheptanoic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6927	Perfluorohexane Sulfonic Acid (PFHxS, Perfluorohexane Sulfonate)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6927	Perfluorohexane Sulfonic Acid (PFHxS, Perfluorohexane Sulfonate)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6928	Perfluorohexanoate (PFHxA, Perfluorohexanoic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6928	Perfluorohexanoate (PFHxA, Perfluorohexanoic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6930	Perfluorononanoate (PFNA, Perfluorononanoic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6930	Perfluorononanoate (PFNA, Perfluorononanoic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6909	Perfluorooctane sulfonate (PFOS, Perfluoro-octane Sulfonic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6931	Perfluorooctane sulfonic acid (PFOS, Perfluoro-octane Sulfonate)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6932	Perfluoro-octanoate (PFOA, Perfluoro-octanoic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777
Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762

Matrix: **Drinking Water**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6932	Perfluoro-octanoate (PFOA, Perfluoro-octanoic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6902	Perfluorotetradecanoate (PFTeDA, perfluorotetradecanoic acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6902	Perfluorotetradecanoate (PFTeDA, perfluorotetradecanoic acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
9563	Perfluorotridecanoate (PFTriA, perfluorotridecanoic acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
9563	Perfluorotridecanoate (PFTriA, perfluorotridecanoic acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019
6944	Perfluoroundecanoate (PFUnA, Perfluoroundecanoic Acid)	EPA 537	10091675	Group III Unregulated Contaminants	2/6/2017
6944	Perfluoroundecanoate (PFUnA, Perfluoroundecanoic Acid)	EPA 537.1	10091642	Group III Unregulated Contaminants	7/2/2019



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Non-Potable Water**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
9516	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	EPA 1613	10120408	Extractable Organics	5/29/2014
9516	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9519	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	EPA 1613	10120408	Extractable Organics	5/29/2014
9519	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9420	1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf)	EPA 1613	10120408	Extractable Organics	5/29/2014
9420	1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9426	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd)	EPA 1613	10120408	Extractable Organics	5/29/2014
9426	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9423	1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf)	EPA 1613	10120408	Extractable Organics	5/29/2014
9423	1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9453	1,2,3,4,7,8-Hxcdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9453	1,2,3,4,7,8-Hxcdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9471	1,2,3,4,7,8-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9471	1,2,3,4,7,8-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9456	1,2,3,6,7,8-Hxcdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9456	1,2,3,6,7,8-Hxcdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9474	1,2,3,6,7,8-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9474	1,2,3,6,7,8-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9459	1,2,3,7,8,9-Hxcdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9459	1,2,3,7,8,9-Hxcdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9477	1,2,3,7,8,9-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9477	1,2,3,7,8,9-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9540	1,2,3,7,8-Pecdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9540	1,2,3,7,8-Pecdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9543	1,2,3,7,8-Pecdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9543	1,2,3,7,8-Pecdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9490	11-Chloroeicosafuoro-3-oxaundecane-1-sulfo VAL SOP 49 24 nic Acid (11-CIPF3OUdS)		60048524	Extractable Organics	7/1/2021
6948	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2 Fluorotelomersulfonate, 8:2 FTS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9437	1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 Fluorotelomersulfonic acid, 4:2 FTS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6947	1H,1H,2H,2H-Perfluoro-octanesulfonic Acid (6:2 Fluorotelomersulfonate, 6:2 FTS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Non-Potable Water**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4846	2-(N-Ethyl-perfluorooctane sulfonamido) acetic acid	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
4847	2-(N-Methyl-perfluorooctane sulfonamido) acetic acid	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9480	2,3,4,6,7,8-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9480	2,3,4,6,7,8-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9549	2,3,4,7,8-Pecdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9549	2,3,4,7,8-Pecdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9618	2,3,7,8-TCDD (Dioxin, 2,3,7,8-Tetrachlorodibenzo-p-dioxin)	EPA 1613	10120408	Extractable Organics	5/29/2014
9618	2,3,7,8-TCDD (Dioxin, 2,3,7,8-Tetrachlorodibenzo-p-dioxin)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9612	2,3,7,8-TCDF	EPA 1613	10120408	Extractable Organics	5/29/2014
9612	2,3,7,8-TCDF	EPA 8290A	10187403	Extractable Organics	3/28/2023
6951	4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfo nic Acid (9-CIPF3ONS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9460	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA, GenX)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9438	Hpcdd, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9438	Hpcdd, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9444	Hpcdf, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9444	Hpcdf, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9468	Hxcd, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9468	Hxcd, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9483	Hxcdf, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9483	Hxcdf, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9395	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9431	N-ethylperfluoro-octane sulfonamido ethanol (EtFOSE)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9433	N-Methylperfluorooctane sulfonamide (MeFOSA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9434	N-Methylperfluorooctane sulfonamido ethano (MeFOSE)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9555	Pecdd, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9555	Pecdd, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9552	Pecdf, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9552	Pecdf, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
6918	Perfluorobutane Sulfonic Acid (PFBS, perfluorobutane sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Non-Potable Water**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6919	Perfluorobutanoate (PFBA, Perfluorobutanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9562	Perfluorodecane sulfonate (PFDS, perfluorodecane sulfonic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6921	Perfluorodecanoate (PFDA, Perfluorodecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6924	Perfluorododecanoate (PFDoA, Pefluorododecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9470	Perfluoroheptane Sulfonic Acid (PFHpS, Perfluoroheptane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6926	Perfluoroheptanoate (PFHpA, Perfluoroheptanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6901	Perfluorohexadecanoate (PFHxDA, Perfluorohexadecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6927	Perfluorohexane Sulfonic Acid (PFHxS, Perfluorohexane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6928	Perfluorohexanoate (PFHxA, Perfluorohexanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6929	Perfluorononane Sulfonic Acid (PFNS, Perfluorononane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6930	Perfluorononanoate (PFNA, Perfluorononanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6916	Perfluoro-octadecanoate (PFODA, Perfluoro-octadecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9665	Perfluoro-octane Sulfonamide (PFOSA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6931	Perfluorooctane sulfonic acid (PFOS, Perfluoro-octane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6932	Perfluoro-octanoate (PFOA, Perfluoro-octanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6934	Perfluoropentane Sulfonic Acid (PFPeS, Perfluoropentane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6935	Perfluoropentanoate (PFPeA, Perfluoropentanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6902	Perfluorotetradecanoate (PFTeDA, perfluorotetradecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9563	Perfluorotridecanoate (PFTriA, perfluorotridecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6904	Perfluoroundecanoic acid (PFUDA, Perfluoroundecanoate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9609	TCDD, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9609	TCDD, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9615	TCDF, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9615	TCDF, total	EPA 8290A	10187403	Extractable Organics	3/28/2023



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Solid and Chemical Materials**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
9516	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	EPA 1613	10120408	Extractable Organics	5/29/2014
9516	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9519	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	EPA 1613	10120408	Extractable Organics	5/29/2014
9519	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9420	1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf)	EPA 1613	10120408	Extractable Organics	5/29/2014
9420	1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-hpcdf)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9426	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd)	EPA 1613	10120408	Extractable Organics	5/29/2014
9426	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-hpcdd)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9423	1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf)	EPA 1613	10120408	Extractable Organics	5/29/2014
9423	1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-hpcdf)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9453	1,2,3,4,7,8-Hxcdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9453	1,2,3,4,7,8-Hxcdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9471	1,2,3,4,7,8-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9471	1,2,3,4,7,8-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9456	1,2,3,6,7,8-Hxcdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9456	1,2,3,6,7,8-Hxcdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9474	1,2,3,6,7,8-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9474	1,2,3,6,7,8-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9459	1,2,3,7,8,9-Hxcdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9459	1,2,3,7,8,9-Hxcdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9477	1,2,3,7,8,9-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9477	1,2,3,7,8,9-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9540	1,2,3,7,8-Pecdd	EPA 1613	10120408	Extractable Organics	5/29/2014
9540	1,2,3,7,8-Pecdd	EPA 8290A	10187403	Extractable Organics	3/28/2023
9543	1,2,3,7,8-Pecdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9543	1,2,3,7,8-Pecdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9490	11-Chloroeicosafuoro-3-oxaundecane-1-sulfo VAL SOP 49 24 nic Acid (11-CIPF3OUdS)		60048524	Extractable Organics	7/1/2021
6948	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2 Fluorotelomersulfonate, 8:2 FTS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9437	1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 Fluorotelomersulfonic acid, 4:2 FTS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6457	1H,1H,2H,2H-Perfluoro-octane Sulfonate (6:2 Fluorotelomersulfonic acid, 6:2 FTS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Solid and Chemical Materials**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4846	2-(N-Ethyl-perfluorooctane sulfonamido) acetic acid	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
4847	2-(N-Methyl-perfluorooctane sulfonamido) acetic acid	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9480	2,3,4,6,7,8-Hxcdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9480	2,3,4,6,7,8-Hxcdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9549	2,3,4,7,8-Pecdf	EPA 1613	10120408	Extractable Organics	5/29/2014
9549	2,3,4,7,8-Pecdf	EPA 8290A	10187403	Extractable Organics	3/28/2023
9618	2,3,7,8-TCDD (Dioxin, 2,3,7,8-Tetrachlorodibenzo-p-dioxin)	EPA 1613	10120408	Extractable Organics	5/29/2014
9618	2,3,7,8-TCDD (Dioxin, 2,3,7,8-Tetrachlorodibenzo-p-dioxin)	EPA 8290A	10187403	Extractable Organics	3/28/2023
9612	2,3,7,8-TCDF	EPA 1613	10120408	Extractable Organics	5/29/2014
9612	2,3,7,8-TCDF	EPA 8290A	10187403	Extractable Organics	3/28/2023
6951	4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfo nic Acid (9-CIPF3ONS)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9460	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA, GenX)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9438	Hpcdd, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9438	Hpcdd, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9444	Hpcdf, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9444	Hpcdf, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9468	Hxcdd, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9468	Hxcdd, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9483	Hxcdf, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9483	Hxcdf, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9395	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9431	N-ethylperfluoro-octane sulfonamido ethanol (EtFOSE)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9433	N-Methylperfluorooctane sulfonamide (MeFOSA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9434	N-Methylperfluorooctane sulfonamido ethano (MeFOSE)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9555	Pecdd, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9555	Pecdd, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9552	Pecdf, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9552	Pecdf, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
6918	Perfluorobutane Sulfonic Acid (PFBS, perfluorobutane sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Solid and Chemical Materials**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6919	Perfluorobutanoate (PFBA, Perfluorobutanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9562	Perfluorodecane sulfonate (PFDS, perfluorodecane sulfonic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6921	Perfluorodecanoate (PFDA, Perfluorodecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6924	Perfluorododecanoate (PFDoA, Pefluorododecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6925	Perfluoroheptane Sulfonate (PFHpS, Perfluoroheptane Sulfonic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6926	Perfluoroheptanoate (PFHpA, Perfluoroheptanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6901	Perfluorohexadecanoate (PFHxDA, Perfluorohexadecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6927	Perfluorohexane Sulfonic Acid (PFHxA, Perfluorohexane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6928	Perfluorohexanoate (PFHxA, Perfluorohexanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6929	Perfluorononane Sulfonic Acid (PFNS, Perfluorononane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6930	Perfluorononanoate (PFNA, Perfluorononanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6916	Perfluoro-octadecanoate (PFODA, Perfluoro-octadecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9665	Perfluoro-octane Sulfonamide (PFOSA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6909	Perfluorooctane sulfonate (PFOS, Perfluoro-octane Sulfonic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6932	Perfluoro-octanoate (PFOA, Perfluoro-octanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6934	Perfluoropentane Sulfonic Acid (PFPeS, Perfluoropentane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6935	Perfluoropentanoate (PFPeA, Perfluoropentanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6902	Perfluorotetradecanoate (PFTeDA, perfluorotetradecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9563	Perfluorotridecanoate (PFTriA, perfluorotridecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6904	Perfluoroundecanoic acid (PFUDA, Perfluoroundecanoate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9609	TCDD, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9609	TCDD, total	EPA 8290A	10187403	Extractable Organics	3/28/2023
9615	TCDF, total	EPA 1613	10120408	Extractable Organics	5/29/2014
9615	TCDF, total	EPA 8290A	10187403	Extractable Organics	3/28/2023



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Biological Tissue**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
9490	11-Chloroicosafuoro-3-oxaundecane-1-sulfoVAL SOP 49 24 nic Acid (11-CIPF3OUdS)		60048524	Extractable Organics	7/1/2021
6948	1H,1H,2H,2H-Perfluorodecanesulfonic Acid VAL SOP 49 24 (8:2 Fluorotelomersulfonate, 8:2 FTS)		60048524	Extractable Organics	7/1/2021
9437	1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 VAL SOP 49 24 Fluorotelomersulfonic acid, 4:2 FTS)		60048524	Extractable Organics	7/1/2021
6947	1H,1H,2H,2H-Perfluoro-octanesulfonic Acid VAL SOP 49 24 (6:2 Fluorotelomersulfonate, 6:2 FTS)		60048524	Extractable Organics	7/1/2021
4846	2-(N-Ethyl-perfluorooctane sulfonamido) VAL SOP 49 24 acetic acid		60048524	Extractable Organics	7/1/2021
4847	2-(N-Methyl-perfluorooctane sulfonamido) VAL SOP 49 24 acetic acid		60048524	Extractable Organics	7/1/2021
6951	4,8-Dioxa-3H-perfluorononanoic Acid VAL SOP 49 24 (ADONA)		60048524	Extractable Organics	7/1/2021
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfo VAL SOP 49 24 nic Acid (9-CIPF3ONS)		60048524	Extractable Organics	7/1/2021
9460	Hexafluoropropylene Oxide Dimer Acid VAL SOP 49 24 (HFPO-DA, GenX)		60048524	Extractable Organics	7/1/2021
9395	N-Ethylperfluorooctane sulfonamide VAL SOP 49 24 (N-EtFOSA)		60048524	Extractable Organics	7/1/2021
9431	N-ethylperfluoro-octane sulfonamido ethanol VAL SOP 49 24 (EtFOSE)		60048524	Extractable Organics	7/1/2021
9433	N-Methylperfluorooctane sulfonamide VAL SOP 49 24 (MeFOSA)		60048524	Extractable Organics	7/1/2021
9434	N-Methylperfluorooctane sulfonamido ethanoVAL SOP 49 24 (MeFOSE)		60048524	Extractable Organics	7/1/2021
6918	Perfluorobutane Sulfonic Acid (PFBS, VAL SOP 49 24 perfluorobutane sulfonate)		60048524	Extractable Organics	7/1/2021
6919	Perfluorobutanoate (PFBA, Perfluorobutanoic VAL SOP 49 24 Acid)		60048524	Extractable Organics	7/1/2021
9562	Perfluorodecane sulfonate (PFDS, VAL SOP 49 24 perfluorodecane sulfonic acid)		60048524	Extractable Organics	7/1/2021
6921	Perfluorodecanoate (PFDA, PerfluorodecanoicVAL SOP 49 24 Acid)		60048524	Extractable Organics	7/1/2021
6924	Perfluorododecanoate (PFDoA, VAL SOP 49 24 Pefluorododecanoic Acid)		60048524	Extractable Organics	7/1/2021
6925	Perfluoroheptane Sulfonate (PFHpS, VAL SOP 49 24 Perfluoroheptane Sulfonic Acid)		60048524	Extractable Organics	7/1/2021
6926	Perfluoroheptanoate (PFHpA, VAL SOP 49 24 Perfluoroheptanoic Acid)		60048524	Extractable Organics	7/1/2021
6901	Perfluorohexadecanoate (PFHxDA, VAL SOP 49 24 Perfluorohexadecanoic acid)		60048524	Extractable Organics	7/1/2021
6927	Perfluorohexane Sulfonic Acid (PFHxS, VAL SOP 49 24 Perfluorohexane Sulfonate)		60048524	Extractable Organics	7/1/2021
6928	Perfluorohexanoate (PFHxA, VAL SOP 49 24 Perfluorohexanoic Acid)		60048524	Extractable Organics	7/1/2021
6929	Perfluorononane Sulfonic Acid (PFNS, VAL SOP 49 24 Perfluorononane Sulfonate)		60048524	Extractable Organics	7/1/2021
6930	Perfluorononanoate (PFNA, VAL SOP 49 24 Perfluorononanoic Acid)		60048524	Extractable Organics	7/1/2021

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type NELAP
Issue Date: 3/28/2023
Expiration Date: 6/30/2023



Laboratory Scope of Accreditation

Attachment to Certificate #: E87777-31, expiration date June 30, 2023. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87777**

EPA Lab Code: **CA00413**

(916) 673-1520

E87777

**Enthalpy Analytical LLC
1104 Windfield Way
El Dorado Hills, CA 95762**

Matrix: **Biological Tissue**

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6916	Perfluoro-octadecanoate (PFODA, Perfluoro-octadecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9665	Perfluoro-octane Sulfonamide (PFOSA)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6931	Perfluorooctane sulfonic acid (PFOS, Perfluoro-octane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6932	Perfluoro-octanoate (PFOA, Perfluoro-octanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6934	Perfluoropentane Sulfonic Acid (PFPeS, Perfluoropentane Sulfonate)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6935	Perfluoropentanoate (PFPeA, Perfluoropentanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6902	Perfluorotetradecanoate (PFTeDA, perfluorotetradecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
9563	Perfluorotridecanoate (PFTriA, perfluorotridecanoic acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021
6944	Perfluoroundecanoate (PFUnA, Perfluoroundecanoic Acid)	VAL SOP 49 24	60048524	Extractable Organics	7/1/2021