



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

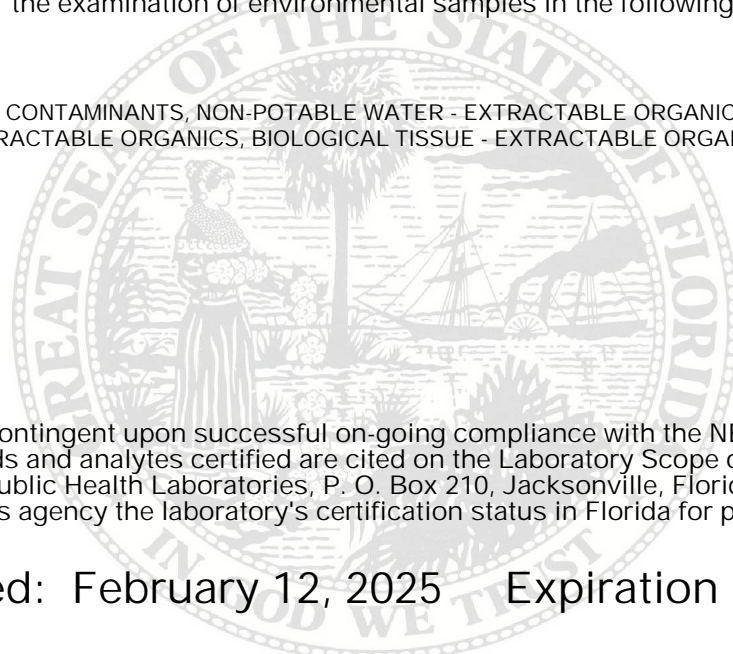


E87777

ENTHALPY ANALYTICAL 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: February 12, 2025 Expiration Date: June 30, 2025



Marie-Claire Rowlinson, PhD, D(ABMM)  
 Bureau of Public Health Laboratories  
 DH Form 1697, 7/04

NON-TRANSFERABLE E87777-35-02/12/2025  
 Supersedes all previously issued certificates



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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-Chloroicosafluoro-3-oxaundecane-1-sulfo<br>nic Acid (11-CIPF3OUdS) | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 9490     | 11-Chloroicosafluoro-3-oxaundecane-1-sulfo<br>nic Acid (11-CIPF3OUdS) | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6948     | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2 FTS)                 | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6946     | 1H,1H,2H,2H-Perfluorohexanesulfonic acid<br>(4:2 FTS)                 | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6947     | 1H,1H,2H,2H-Perfluoro-octanesulfonic Acid<br>(6:2 FTS)                | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6951     | 4,8-Dioxa-3H-perfluorononanoic Acid<br>(ADONA)                        | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6951     | 4,8-Dioxa-3H-perfluorononanoic Acid<br>(ADONA)                        | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6952     | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfo<br>nic Acid (9-CIPF3ONS)   | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6952     | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfo<br>nic Acid (9-CIPF3ONS)   | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 9460     | Hexafluoropropylene Oxide Dimer Acid<br>(HFPO-DA, GenX)               | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 9460     | Hexafluoropropylene Oxide Dimer Acid<br>(HFPO-DA, GenX)               | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 4846     | N-Ethylperfluorooctane sulfonamido acetic<br>acid (NEtFOSAA)          | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 4847     | N-Methylperfluorooctane sulfonamido acetic<br>acid (NMeFOSAA)         | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6956     | Nonafluoro-3,6-dioxaheptanoic Acid<br>(NFDHA)                         | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6957     | Perfluoro(2-ethoxyethane) Sulfonic Acid<br>(PFEESA)                   | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6965     | Perfluoro-3-methoxypropanoic Acid (PFMPA)                             | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6966     | Perfluoro-4-methoxybutanoic Acid (PFMBA)                              | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6918     | Perfluorobutane Sulfonic Acid (PFBS)                                  | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6918     | Perfluorobutane Sulfonic Acid (PFBS)                                  | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6915     | Perfluorobutanoic Acid (PFBA)   | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6905     | Perfluorodecanoic Acid (PFDA)   | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6905     | Perfluorodecanoic Acid (PFDA)   | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6903     | Perfluorododecanoic Acid (PFDoA)                                      | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6903     | Perfluorododecanoic Acid (PFDoA)                                      | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 9470     | Perfluoroheptane Sulfonic Acid (PFHpS)                                | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6908     | Perfluoroheptanoic Acid (PFHpA)                                       | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6908     | Perfluoroheptanoic Acid (PFHpA)                                       | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6927     | Perfluorohexane Sulfonic Acid (PFHxS)                                 | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6927     | Perfluorohexane Sulfonic Acid (PFHxS)                                 | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6913     | Perfluorohexanoic Acid (PFHxA)  | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |

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

**Certification Type: NELAP**  
**Issue Date: 2/12/2025**      **Expiration Date: 6/30/2025**



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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 |
|----------|--|--------------------|-------------|------------------------------------|----------------|
| 6913     | Perfluorohexanoic Acid (PFHxA)         | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6906     | Perfluorononanoic Acid (PFNA)          | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6906     | Perfluorononanoic Acid (PFNA)          | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6931     | Perfluorooctane sulfonic acid (PFOS)   | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6931     | Perfluorooctane sulfonic acid (PFOS)   | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6912     | Perfluorooctanoic Acid (PFOA)          | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6912     | Perfluorooctanoic Acid (PFOA)          | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6934     | Perfluoropentane Sulfonic Acid (PFPeS) | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6914     | Perfluoropentanoic Acid (PFPeA)        | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6902     | Perfluorotetradecanoic acid (PFTDA)    | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 9563     | Perfluorotridecanoic acid (PFTrDA)     | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |
| 6904     | Perfluoroundecanoic acid (PFUnDA)      | EPA 533            | 10091619    | Group III Unregulated Contaminants | 6/19/2024      |
| 6904     | Perfluoroundecanoic acid (PFUnDA)      | EPA 537.1 (Rev. 2) | 10091595    | Group III Unregulated Contaminants | 6/19/2024      |



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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 VAL SOP 49 24 (8:2 FTS)                 |             | 60048524    | Extractable Organics | 7/1/2021       |
| 9437     | 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 VAL SOP 49 24 FTS)                    |             | 60048524    | Extractable Organics | 7/1/2021       |
| 6947     | 1H,1H,2H,2H-Perfluoro-octanesulfonic Acid VAL SOP 49 24 (6:2 FTS)                |             | 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: **2/12/2025** Expiration Date: **6/30/2025**



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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 |
|----------|---|---------------|-------------|----------------------|----------------|
| 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,<br>2,3,7,8-Tetrachlorodibenzo-p-dioxin)       | EPA 1613      | 10120408    | Extractable Organics | 5/29/2014      |
| 9618     | 2,3,7,8-TCDD (Dioxin,<br>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<br>(ADONA)                      | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6952     | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfo<br>nic Acid (9-CIPF3ONS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9460     | Hexafluoropropylene Oxide Dimer Acid<br>(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     | Hxcd, total   | EPA 1613      | 10120408    | Extractable Organics | 5/29/2014      |
| 9483     | Hxcd, total   | EPA 8290A     | 10187403    | Extractable Organics | 3/28/2023      |
| 9395     | N-Ethylperfluorooctane sulfonamide<br>(N-EtFOSA)                    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 4846     | N-Ethylperfluorooctane sulfonamido acetic<br>acid (NEtFOSAA)        | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9431     | N-ethylperfluorooctane sulfonamido ethanol<br>(EtFOSE)              | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9433     | N-Methylperfluorooctane sulfonamide<br>(MeFOSA)                     | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 4847     | N-Methylperfluorooctane sulfonamido acetic<br>acid (NMeFOSAA)       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9434     | N-Methylperfluorooctane sulfonamido ethano<br>(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)                                | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6915     | Perfluorobutanoic Acid (PFBA)                                       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |





**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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 |
|----------|--|---------------|-------------|----------------------|----------------|
| 6920     | Perfluorodecane Sulfonic Acid (PFDS)   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6905     | Perfluorodecanoic Acid (PFDA)          | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6903     | Perfluorododecanoic Acid (PFDoA)       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9470     | Perfluoroheptane Sulfonic Acid (PFHpS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6908     | Perfluoroheptanoic Acid (PFHpA)        | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6901     | Perfluorohexadecanoic Acid (PFHxDA)    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6927     | Perfluorohexane Sulfonic Acid (PFHxS)  | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6913     | Perfluorohexanoic Acid (PFHxA)         | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6929     | Perfluorononane Sulfonic Acid (PFNS)   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6906     | Perfluorononanoic Acid (PFNA)          | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6916     | Perfluoro-octadecanoic Acid (PFODA)    | 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)   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6912     | Perfluorooctanoic Acid (PFOA)          | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6934     | Perfluoropentane Sulfonic Acid (PFPeS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6914     | Perfluoropentanoic Acid (PFPeA)        | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6902     | Perfluorotetradecanoic acid (PFTDA)    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9563     | Perfluorotridecanoic acid (PFTrDA)     | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6904     | Perfluoroundecanoic acid (PFUnDA)      | 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 #: E87777-35, expiration date June 30, 2025. 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-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid (11-CIPF3OUdS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6948     | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2 FTS)                 | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9437     | 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 FTS)                    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6457     | 1H,1H,2H,2H-Perfluoro-octane Sulfonate (6:2 FTS)                   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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 |
|----------|---|---------------|-------------|----------------------|----------------|
| 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,<br>2,3,7,8-Tetrachlorodibenzo-p-dioxin)       | EPA 1613      | 10120408    | Extractable Organics | 5/29/2014      |
| 9618     | 2,3,7,8-TCDD (Dioxin,<br>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<br>(ADONA)                      | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6952     | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfo<br>nic Acid (9-CIPF3ONS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9460     | Hexafluoropropylene Oxide Dimer Acid<br>(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     | Hxcd, total   | EPA 1613      | 10120408    | Extractable Organics | 5/29/2014      |
| 9483     | Hxcd, total   | EPA 8290A     | 10187403    | Extractable Organics | 3/28/2023      |
| 9395     | N-Ethylperfluorooctane sulfonamide<br>(N-EtFOSA)                    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 4846     | N-Ethylperfluorooctane sulfonamido acetic<br>acid (NEtFOSAA)        | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9431     | N-ethylperfluorooctane sulfonamido ethanol<br>(EtFOSE)              | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9433     | N-Methylperfluorooctane sulfonamide<br>(MeFOSA)                     | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 4847     | N-Methylperfluorooctane sulfonamido acetic<br>acid (NMeFOSAA)       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9434     | N-Methylperfluorooctane sulfonamido ethano<br>(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)                                | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6915     | Perfluorobutanoic Acid (PFBA)                                       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |





**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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 |
|----------|--|---------------|-------------|----------------------|----------------|
| 6920     | Perfluorodecane Sulfonic Acid (PFDS)   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6905     | Perfluorodecanoic Acid (PFDA)          | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6903     | Perfluorododecanoic Acid (PFDoA)       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9470     | Perfluoroheptane Sulfonic Acid (PFHpS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6908     | Perfluoroheptanoic Acid (PFHpA)        | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6901     | Perfluorohexadecanoic Acid (PFHxDA)    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6927     | Perfluorohexane Sulfonic Acid (PFHxS)  | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6913     | Perfluorohexanoic Acid (PFHxA)         | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6929     | Perfluorononane Sulfonic Acid (PFNS)   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6906     | Perfluorononanoic Acid (PFNA)          | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6916     | Perfluoro-octadecanoic Acid (PFODA)    | 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)   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6912     | Perfluorooctanoic Acid (PFOA)          | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6934     | Perfluoropentane Sulfonic Acid (PFPeS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6914     | Perfluoropentanoic Acid (PFPeA)        | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6902     | Perfluorotetradecanoic acid (PFTDA)    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9563     | Perfluorotridecanoic acid (PFTrDA)     | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6904     | Perfluoroundecanoic acid (PFUnDA)      | 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 #: E87777-35, expiration date June 30, 2025. 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<br>nic Acid (11-CIPF3OUdS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6948     | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid VAL SOP 49 24<br>(8:2 FTS)               | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9437     | 1H,1H,2H,2H-Perfluorohexane Sulfonate (4:2 VAL SOP 49 24<br>FTS)                  | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6947     | 1H,1H,2H,2H-Perfluoro-octanesulfonic Acid VAL SOP 49 24<br>(6:2 FTS)              | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6951     | 4,8-Dioxa-3H-perfluorononanoic Acid VAL SOP 49 24<br>(ADONA)                      | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6952     | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfo VAL SOP 49 24<br>nic Acid (9-CIPF3ONS) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9460     | Hexafluoropropylene Oxide Dimer Acid VAL SOP 49 24<br>(HFPO-DA, GenX)             | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9395     | N-Ethylperfluorooctane sulfonamide VAL SOP 49 24<br>(N-EtFOSA)                    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 4846     | N-Ethylperfluorooctane sulfonamido acetic VAL SOP 49 24<br>acid (NEtFOSAA)        | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9431     | N-ethylperfluorooctane sulfonamido ethanol VAL SOP 49 24<br>(EtFOSE)              | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9433     | N-Methylperfluorooctane sulfonamide VAL SOP 49 24<br>(MeFOSA)                     | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 4847     | N-Methylperfluorooctane sulfonamido acetic VAL SOP 49 24<br>acid (NMeFOSAA)       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9434     | N-Methylperfluorooctane sulfonamido ethanoVAL SOP 49 24<br>(MeFOSE)               | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6918     | Perfluorobutane Sulfonic Acid (PFBS) VAL SOP 49 24                                | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6915     | Perfluorobutanoic Acid (PFBA) VAL SOP 49 24                                       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6920     | Perfluorodecane Sulfonic Acid (PFDS) VAL SOP 49 24                                | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6905     | Perfluorodecanoic Acid (PFDA) VAL SOP 49 24                                       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6903     | Perfluorododecanoic Acid (PFDoA) VAL SOP 49 24                                    | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9470     | Perfluoroheptane Sulfonic Acid (PFHpS) VAL SOP 49 24                              | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6908     | Perfluoroheptanoic Acid (PFHpA) VAL SOP 49 24                                     | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6901     | Perfluorohexadecanoic Acid (PFHxDA) VAL SOP 49 24                                 | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6927     | Perfluorohexane Sulfonic Acid (PFHxS) VAL SOP 49 24                               | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6913     | Perfluorohexanoic Acid (PFHxA) VAL SOP 49 24                                      | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6929     | Perfluorononane Sulfonic Acid (PFNS) VAL SOP 49 24                                | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6906     | Perfluorononanoic Acid (PFNA) VAL SOP 49 24                                       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6916     | Perfluoro-octadecanoic Acid (PFODA) VAL SOP 49 24                                 | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9665     | Perfluoro-octane Sulfonamide (PFOSA) VAL SOP 49 24                                | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6931     | Perfluorooctane sulfonic acid (PFOS) VAL SOP 49 24                                | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6912     | Perfluorooctanoic Acid (PFOA) VAL SOP 49 24                                       | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6934     | Perfluoropentane Sulfonic Acid (PFPeS) VAL SOP 49 24                              | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87777-35, expiration date June 30, 2025. 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 |
|----------|-------------------------------------|---------------|-------------|----------------------|----------------|
| 6914     | Perfluoropentanoic Acid (PFPeA)     | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6902     | Perfluorotetradecanoic acid (PFTDA) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 9563     | Perfluorotridecanoic acid (PFTTrDA) | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |
| 6904     | Perfluoroundecanoic acid (PFUnDA)   | VAL SOP 49 24 | 60048524    | Extractable Organics | 7/1/2021       |