



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc.
has assessed the Organization of:

ARDL, Inc.
400 Aviation Drive, Mt. Vernon, IL 62864

(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2017 General Requirements for the competence of Testing and Calibration Laboratories and the United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP) requirements identified within the DoD/DOE Quality Systems Manual (DoD/DOE QSM) Version 5.4 October 2021 and is accredited in accordance with the:

United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)

This accreditation demonstrates the technical competence for the defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Environmental Testing *(As detailed in the supplement)*

Accreditation claims for such activities shall only be made from the addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation Body's duty to observe and comply with the said rules.

For PJLA

Tracy Szorszen
President

Initial Accreditation Date:

January 05, 2015

Issue Date:

July 02, 2021

Expiration Date

August 31, 2023

Revision Date:

May 15, 2022

Accreditation No.:

84648

Certificate No.:

L21-427-R1

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

ARDL, Inc.

400 Aviation Drive, Mt. Vernon, IL 62864
Contact Name: Dean Dickerson Phone: 618-244-3235

Accreditation is granted to the facility to perform the following testing:

Code

General Chemistry

EPA 160.3 by Gravimetry 10010001

Solid
Percent Moisture 1950

NIOSH 0500 by Gravimetry 90012081

Air
Respirable Particulates 3915

NIOSH 0600 by Gravimetry 90012092

Air
Total Particulates 3915

Inorganic

EPA 200.7 by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES) 10013806

Aqueous
Aluminum 1000

Antimony 1005

Arsenic 1010

Barium 1015

Beryllium 1020

Boron 1025

Cadmium 1030

Calcium 1035

Chromium 1040

Cobalt 1050

Copper 1055

Iron 1070

Lead 1075

Magnesium 1085

Manganese 1090

Nickel 1105

Potassium 1125

Selenium 1140

Silver 1150

Sodium 1155

Thallium 1165

Vanadium 1185

Zinc 1190

EPA 245.1 by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS) 10036609

Aqueous
Mercury 1095



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Inorganic

EPA 300.0 by Ion Chromatography (IC)	10053200
Aqueous	
Chloride	1575
Fluoride	1730
Nitrate (as N)	1810
Orthophosphate (as P)	1870
Sulfate	2000
EPA 6010B by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES)	10155609
Aqueous	
Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Boron	1025
Cadmium	1030
Calcium	1035
Chromium	1040
Cobalt	1050
Copper	1055
Iron	1070
Lead	1075
Magnesium	1085
Manganese	1090
Nickel	1105
Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Thallium	1165
Vanadium	1185
Zinc	1190
Solid	
Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020



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Inorganic

EPA 6010B by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES) 10155609

Solid

Boron	1025
Cadmium	1030
Calcium	1035
Chromium	1040
Cobalt	1050
Copper	1055
Iron	1070
Lead	1075
Magnesium	1085
Manganese	1090
Nickel	1105
Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Thallium	1165
Vanadium	1185
Zinc	1190

EPA 6010C by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES) 10155905

Aqueous

Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Boron	1025
Cadmium	1030
Calcium	1035
Chromium	1040
Cobalt	1050
Copper	1055
Iron	1070
Lead	1075
Magnesium	1085
Manganese	1090
Nickel	1105



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Inorganic

EPA 6010C by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES) 10155905

Aqueous

Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Thallium	1165
Vanadium	1185
Zinc	1190

Solid

Aluminum	1000
Antimony	1005
Arsenic	1010
Barium	1015
Beryllium	1020
Boron	1025
Cadmium	1030
Calcium	1035
Chromium	1040
Cobalt	1050
Copper	1055
Iron	1070
Lead	1075
Magnesium	1085
Manganese	1090
Nickel	1105
Potassium	1125
Selenium	1140
Silver	1150
Sodium	1155
Thallium	1165
Vanadium	1185
Zinc	1190

EPA 7470A by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS) 10165807

Aqueous

Mercury	1095
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Solid

Mercury	1095
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	Code
Inorganic	
EPA 7471A by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)	10166208
Solid	
Mercury	1095
NIOSH 7303 by Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES)	90012434
Air	
Antimony	1005
Arsenic	1010
Cadmium	1030
Cobalt	1050
Lead	1075
Manganese	1090
Nickel	1105
Zinc	1190
Organic	
EPA 608 by Gas Chromatography Electron Capture Detector (GC/ECD)	10103603
Aqueous	
4,4'-DDD	7355
4,4'-DDE	7360
4,4'-DDT	7365
Aldrin	7025
alpha-BHC (a-BHC, alpha-Hexachlorocyclohexane)	7110
alpha-Chlordane (cis-Chlordane)	7240
Aroclor 1016	8880
Aroclor 1221	8885
Aroclor 1232	8890
Aroclor 1242	8895
Aroclor 1248	8900
Aroclor 1254	8905
Aroclor 1260	8910
beta-BHC (b-BHC, beta-Hexachlorocyclohexane)	7115
delta-BHC (d-BHC)	7105
Dieldrin	7470
Endosulfan I	7510
Endosulfan II	7515
Endosulfan Sulfate	7520
Endrin	7540
Endrin Aldehyde	7530
Endrin Ketone	7535



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EPA 608 by Gas Chromatography Electron Capture Detector (GC/ECD) 10103603

Aqueous

gamma-BHC (γ -BHC, Lindane, gamma-Hexachlorocyclohexane) 7120

gamma-Chlordane 7245

Heptachlor 7685

Heptachlor Epoxide 7690

Methoxychlor 7810

EPA 624 by Gas Chromatography Mass Spectrometry (GC/MS) 10107207

Aqueous

1,1,1,2-Tetrachloroethane 5105

1,1,1-Trichloroethane 5160

1,1,2,2-Tetrachloroethane 5110

1,1,2-Trichloroethane 5165

1,1-Dichloroethane 4630

1,1-Dichloroethylene 4640

1,1-Dichloropropene 4670

1,2,3-Trichlorobenzene 5150

1,2,3-Trichloropropane (TCP) 5180

1,2,4-Trichlorobenzene 5155

1,2,4-Trimethylbenzene 5210

1,2-Dibromo-3-Chloropropane (DBCP) 4570

1,2-Dibromoethane (EDB, Ethylene Dibromide) 4585

1,2-Dichlorobenzene 4610

1,2-Dichloroethane (Ethylene Dichloride, EDC) 4635

1,2-Dichloropropane 4655

1,3,5-Trimethylbenzene 5215

1,3-Dichlorobenzene (1,3-DCB) 4615

1,3-Dichloropropane 4660

1,4-Dichlorobenzene 4620

1,4-Isopropyltoluene 4915

2,2-Dichloropropane 4665

2-Butanone (Methyl Ethyl Ketone, MEK) 4410

2-Chlorotoluene 4535

2-Hexanone (Methyl Butyl Ketone, MBK) 4860

4-Chlorotoluene (p-Chlorotoluene) 4540

4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone) 4995

Acetone 4315

Acrylonitrile 4340



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Code

Organic

EPA 624 by Gas Chromatography Mass Spectrometry (GC/MS) 10107207

Aqueous

Benzene 4375

Bromobenzene 4385

Bromochloromethane 4390

Bromodichloromethane 4395

Bromoform 4400

Carbon Disulfide 4450

Carbon Tetrachloride 4455

Chlorobenzene 4475

Chlorodibromomethane (Dibromochloromethane) 4575

Chloroethane (Ethyl Chloride) 4485

Chloroform 4505

cis-1,2-Dichloroethylene 4645

cis-1,3-Dichloropropene 4680

Dibromomethane (Methylene Bromide) 4595

Dichlorodifluoromethane (Freon 12) 4625

Ethylbenzene 4765

Hexachlorobutadiene 4835

Isopropylbenzene (Cumene) 4900

m,p-Xylene 5240

Methyl Bromide (Bromomethane) 4950

Methyl Chloride (Chloromethane) 4960

Methyl tert Butyl Ether (MTBE) 5000

Methylene Chloride (Dichloromethane) 4975

Naphthalene 5005

n-Butylbenzene 4435

n-Propylbenzene (1-phenylpropane) 5090

o-Xylene (1,2-Xylene) 5250

Sec-Butylbenzene 4440

Styrene 5100

tert-Butylbenzene 4445

Tetrachloroethene 5115

Toluene 5140

trans-1,2-Dichloroethylene 4700

trans-1,3-Dichloropropylene 4685

Trichloroethene (TCE, Trichloroethylene) 5170

Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) 5175



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	Code
Organic	
EPA 624 by Gas Chromatography Mass Spectrometry (GC/MS)	10107207
Aqueous	
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260
EPA 625 by Gas Chromatography Mass Spectrometry (GC/MS)	10107401
Aqueous	
1,2,4,5-Tetrachlorobenzene	6715
1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
2,2'-Oxybis(1-Chloropropane) (was bis(2-Chloroisopropyl)ether)	4659
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	6360
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitrophenol	6490
3,3'-Dichlorobenzidine	5945
3-Nitroaniline	6465
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Methylphenol (p-Cresol, as 3+4-Methylphenol)	6410
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580



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Code

Organic

EPA 625 by Gas Chromatography Mass Spectrometry (GC/MS)	10107401
Aqueous	
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200
Fluoranthene	6265
Fluorene	6270
Hexachlorobenzene	6275
Hexachlorobutadiene	4835
Hexachlorocyclopentadiene	6285
Hexachloroethane	4840
Indeno(1,2,3,cd)Pyrene	6315
Isophorone	6320
Naphthalene	5005
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535
Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Phenol	6625
Pyrene	6665
Pyridine	5095



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Organic

EPA 8081B by Gas Chromatography Electron Capture Detector (GC/ECD)	10178811
Aqueous	
4,4'-DDD	7355
4,4'-DDE	7360
4,4'-DDT	7365
Aldrin	7025
alpha-BHC (a-BHC, alpha-Hexachlorocyclohexane)	7110
alpha-Chlordane (cis-Chlordane)	7240
beta-BHC (b-BHC, beta-Hexachlorocyclohexane)	7115
delta-BHC (d-BHC)	7105
Dieldrin	7470
Endosulfan I	7510
Endosulfan II	7515
Endosulfan Sulfate	7520
Endrin	7540
Endrin Aldehyde	7530
Endrin Ketone	7535
gamma-BHC (γ -BHC, Lindane, gamma-Hexachlorocyclohexane)	7120
gamma-Chlordane	7245
Heptachlor	7685
Heptachlor Epoxide	7690
Methoxychlor	7810
Solid	
4,4'-DDD	7355
4,4'-DDE	7360
4,4'-DDT	7365
Aldrin	7025
alpha-BHC (a-BHC, alpha-Hexachlorocyclohexane)	7110
alpha-Chlordane (cis-Chlordane)	7240
beta-BHC (b-BHC, beta-Hexachlorocyclohexane)	7115
delta-BHC (d-BHC)	7105
Dieldrin	7470
Endosulfan I	7510
Endosulfan II	7515
Endosulfan Sulfate	7520
Endrin	7540
Endrin Aldehyde	7530
Endrin Ketone	7535



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	Code
Organic	
EPA 8081B by Gas Chromatography Electron Capture Detector (GC/ECD)	10178811
Solid	
gamma-BHC (γ -BHC, Lindane, gamma-Hexachlorocyclohexane)	7120
gamma-Chlordane	7245
Heptachlor	7685
Heptachlor Epoxide	7690
Methoxychlor	7810
EPA 8082 by Gas Chromatography Electron Capture Detector (GC/ECD)	10179007
Aqueous	
Aroclor 1016	8880
Aroclor 1221	8885
Aroclor 1232	8890
Aroclor 1242	8895
Aroclor 1248	8900
Aroclor 1254	8905
Aroclor 1260	8910
Solid	
Aroclor 1016	8880
Aroclor 1221	8885
Aroclor 1232	8890
Aroclor 1242	8895
Aroclor 1248	8900
Aroclor 1254	8905
Aroclor 1260	8910
EPA 8260B by Gas Chromatography Mass Spectrometry (GC/MS)	10184802
Aqueous	
1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110
1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Dichloropropene	4670
1,2,3-Trichlorobenzene	5150
1,2,3-Trichloropropane (TCP)	5180
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570



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Organic

EPA 8260B by Gas Chromatography Mass Spectrometry (GC/MS) 10184802

Aqueous

1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,4-Dichlorobenzene	4620
1,4-Isopropyltoluene	4915
2,2-Dichloropropane	4665
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
2-Chlorotoluene	4535
2-Hexanone (Methyl Butyl Ketone, MBK)	4860
4-Chlorotoluene (p-Chlorotoluene)	4540
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone)	4995
Acetone	4315
Acrylonitrile	4340
Benzene	4375
Bromobenzene	4385
Bromochloromethane	4390
Bromodichloromethane	4395
Bromoform	4400
Carbon Disulfide	4450
Carbon Tetrachloride	4455
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Ethylbenzene	4765
Hexachlorobutadiene	4835
Isopropylbenzene (Cumene)	4900
m,p-Xylene	5240



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EPA 8260B by Gas Chromatography Mass Spectrometry (GC/MS) 10184802

Aqueous

Methyl Bromide (Bromomethane)	4950
Methyl Chloride (Chloromethane)	4960
Methyl tert Butyl Ether (MTBE)	5000
Methylene Chloride (Dichloromethane)	4975
Naphthalene	5005
n-Butylbenzene	4435
n-Propylbenzene (1-phenylpropane)	5090
o-Xylene (1,2-Xylene)	5250
sec-Butylbenzene	4440
Styrene	5100
tert-Butylbenzene	4445
Tetrachloroethene	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260

Solid

1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110
1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Dichloropropene	4670
1,2,3-Trichlorobenzene	5150
1,2,3-Trichloropropane (TCP)	5180
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloropropane	4655



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EPA 8260B by Gas Chromatography Mass Spectrometry (GC/MS)

10184802

Solid

1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,4-Dichlorobenzene	4620
1,4-Isopropyltoluene	4915
2,2-Dichloropropane	4665
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
2-Chlorotoluene	4535
2-Hexanone (Methyl Butyl Ketone, MBK)	4860
4-Chlorotoluene (p-Chlorotoluene)	4540
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone)	4995
Acetone	4315
Acrylonitrile	4340
Benzene	4375
Bromobenzene	4385
Bromochloromethane	4390
Bromodichloromethane	4395
Bromoform	4400
Carbon Disulfide	4450
Carbon Tetrachloride	4455
Chlorobenzene	4475
Chlorodibromomethane (Dibromochloromethane)	4575
Chloroethane (Ethyl Chloride)	4485
Chloroform	4505
cis-1,2-Dichloroethylene	4645
cis-1,3-Dichloropropene	4680
Dibromomethane (Methylene Bromide)	4595
Dichlorodifluoromethane (Freon 12)	4625
Ethylbenzene	4765
Hexachlorobutadiene	4835
Isopropylbenzene (Cumene)	4900
m,p-Xylene	5240
Methyl Bromide (Bromomethane)	4950
Methyl Chloride (Chloromethane)	4960
Methyl tert Butyl Ether (MTBE)	5000
Methylene Chloride (Dichloromethane)	4975



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Organic

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Solid

Naphthalene	5005
n-Butylbenzene	4435
n-Propylbenzene (1-phenylpropane)	5090
o-Xylene (1,2-Xylene)	5250
Sec-Butylbenzene	4440
Styrene	5100
tert-Butylbenzene	4445
Tetrachloroethene	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260

EPA 8260C by Gas Chromatography Mass Spectrometry (GC/MS) 10307003

Aqueous

1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110
1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Dichloropropene	4670
1,2,3-Trichlorobenzene	5150
1,2,3-Trichloropropane (TCP)	5180
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660



Certificate of Accreditation: Supplement

ARDL, Inc.

400 Aviation Drive, Mt. Vernon, IL 62864
Contact Name: Dean Dickerson Phone: 618-244-3235

Accreditation is granted to the facility to perform the following testing:

Code

Organic

EPA 8260C by Gas Chromatography Mass Spectrometry (GC/MS) 10307003

Aqueous

1,4-Dichlorobenzene 4620

1,4-Isopropyltoluene 4915

2,2-Dichloropropane 4665

2-Butanone (Methyl Ethyl Ketone, MEK) 4410

2-Chlorotoluene 4535

2-Hexanone (Methyl Butyl Ketone, MBK) 4860

4-Chlorotoluene (p-Chlorotoluene) 4540

4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone) 4995

Acetone 4315

Acrylonitrile 4340

Benzene 4375

Bromobenzene 4385

Bromochloromethane 4390

Bromodichloromethane 4395

Bromoform 4400

Carbon Disulfide 4450

Carbon Tetrachloride 4455

Chlorobenzene 4475

Chlorodibromomethane (Dibromochloromethane) 4575

Chloroethane (Ethyl Chloride) 4485

Chloroform 4505

cis-1,2-Dichloroethylene 4645

cis-1,3-Dichloropropene 4680

Dibromomethane (Methylene Bromide) 4595

Dichlorodifluoromethane (Freon 12) 4625

Ethylbenzene 4765

Hexachlorobutadiene 4835

Isopropylbenzene (Cumene) 4900

m,p-Xylene 5240

Methyl Bromide (Bromomethane) 4950

Methyl Chloride (Chloromethane) 4960

Methyl tert Butyl Ether (MTBE) 5000

Methylene Chloride (Dichloromethane) 4975

Naphthalene 5005

n-Butylbenzene 4435

n-Propylbenzene (1-phenylpropane) 5090



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Aqueous

o-Xylene (1,2-Xylene)	5250
sec-Butylbenzene	4440
Styrene	5100
tert-Butylbenzene	4445
Tetrachloroethene	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260

Solid

1,1,1,2-Tetrachloroethane	5105
1,1,1-Trichloroethane	5160
1,1,2,2-Tetrachloroethane	5110
1,1,2-Trichloroethane	5165
1,1-Dichloroethane	4630
1,1-Dichloroethylene	4640
1,1-Dichloropropene	4670
1,2,3-Trichlorobenzene	5150
1,2,3-Trichloropropane (TCP)	5180
1,2,4-Trichlorobenzene	5155
1,2,4-Trimethylbenzene	5210
1,2-Dibromo-3-Chloropropane (DBCP)	4570
1,2-Dibromoethane (EDB, Ethylene Dibromide)	4585
1,2-Dichlorobenzene	4610
1,2-Dichloroethane (Ethylene Dichloride, EDC)	4635
1,2-Dichloropropane	4655
1,3,5-Trimethylbenzene	5215
1,3-Dichlorobenzene (1,3-DCB)	4615
1,3-Dichloropropane	4660
1,4-Dichlorobenzene	4620
1,4-Isopropyltoluene	4915
2,2-Dichloropropane	4665
2-Butanone (Methyl Ethyl Ketone, MEK)	4410



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Organic

EPA 8260C by Gas Chromatography Mass Spectrometry (GC/MS) 10307003

Solid

2-Chlorotoluene 4535

2-Hexanone (Methyl Butyl Ketone, MBK) 4860

4-Chlorotoluene (p-Chlorotoluene) 4540

4-Methyl-2-Pentanone (Methyl Isobutyl Ketone (MIBK), Hexone) 4995

Acetone 4315

Acrylonitrile 4340

Benzene 4375

Bromobenzene 4385

Bromochloromethane 4390

Bromodichloromethane 4395

Bromoform 4400

Carbon Disulfide 4450

Carbon Tetrachloride 4455

Chlorobenzene 4475

Chlorodibromomethane (Dibromochloromethane) 4575

Chloroethane (Ethyl Chloride) 4485

Chloroform 4505

cis-1,2-Dichloroethylene 4645

cis-1,3-Dichloropropene 4680

Dibromomethane (Methylene Bromide) 4595

Dichlorodifluoromethane (Freon 12) 4625

Ethylbenzene 4765

Hexachlorobutadiene 4835

Isopropylbenzene (Cumene) 4900

m,p-Xylene 5240

Methyl Bromide (Bromomethane) 4950

Methyl Chloride (Chloromethane) 4960

Methyl tert Butyl Ether (MTBE) 5000

Methylene Chloride (Dichloromethane) 4975

Naphthalene 5005

n-Butylbenzene 4435

n-Propylbenzene (1-phenylpropane) 5090

o-Xylene (1,2-Xylene) 5250

sec-Butylbenzene 4440

Styrene 5100

tert-Butylbenzene 4445



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Organic

EPA 8260C by Gas Chromatography Mass Spectrometry (GC/MS) 10307003

Solid

Tetrachloroethene	5115
Toluene	5140
trans-1,2-Dichloroethylene	4700
trans-1,3-Dichloropropylene	4685
Trichloroethene (TCE, Trichloroethylene)	5170
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	5175
Vinyl Chloride (Chloroethene)	5235
Xylenes (Total)	5260

EPA 8270C by Gas Chromatography Mass Spectrometry (GC/MS) 10185805

Aqueous

1,2,4,5-Tetrachlorobenzene	6715
1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
2,2'-Oxybis(1-Chloropropane) (was bis(2-Chloroisopropyl)ether)	4659
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	6360
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3,3'-Dichlorobenzidine	5945
3-Nitroaniline	6465
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825



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Accreditation is granted to the facility to perform the following testing:

Code

Organic	
EPA 8270C by Gas Chromatography Mass Spectrometry (GC/MS)	10185805
Aqueous	
4-Methylphenol (p-Cresol, as 3+4-Methylphenol)	6410
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200
Fluoranthene	6265
Fluorene	6270
Hexachlorobenzene	6275
Hexachlorobutadiene	4835
Hexachlorocyclopentadiene	6285
Hexachloroethane	4840
Indeno(1,2,3,cd)Pyrene	6315
Isophorone	6320
Naphthalene	5005
Nitrobenzene	5015
n-Nitrosodimethylamine	6530



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Organic

EPA 8270C by Gas Chromatography Mass Spectrometry (GC/MS) 10185805

Aqueous

n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535
Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Phenol	6625
Pyrene	6665
Pyridine	5095

Solid

1,2,4,5-Tetrachlorobenzene	6715
1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
2,2'-Oxybis(1-Chloropropane) (was bis(2-Chloroisopropyl)ether)	4659
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	6360
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3,3'-Dichlorobenzidine	5945
3-Nitroaniline	6465
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Methylphenol (p-Cresol, as 3+4-Methylphenol)	6410
4-Nitroaniline	6470



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EPA 8270C by Gas Chromatography Mass Spectrometry (GC/MS)

10185805

Solid

4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200
Fluoranthene	6265
Fluorene	6270
Hexachlorobenzene	6275
Hexachlorobutadiene	4835
Hexachlorocyclopentadiene	6285
Hexachloroethane	4840
Indeno(1,2,3,cd)Pyrene	6315
Isophorone	6320
Naphthalene	5005
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535



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400 Aviation Drive, Mt. Vernon, IL 62864

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Code

Organic

EPA 8270C by Gas Chromatography Mass Spectrometry (GC/MS) 10185805

Solid

Pentachlorophenol (PCP) 6605

Phenanthrene 6615

Phenol 6625

Pyrene 6665

Pyridine 5095

EPA 8270C SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM) 10242407

Aqueous

1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane) 4735

2-Methylnaphthalene 6385

Acenaphthene 5500

Acenaphthylene 5505

Anthracene 5555

Benzo(a)Anthracene 5575

Benzo(a)Pyrene 5580

Benzo(b)Fluoranthene 5585

Benzo(g,h,i)Perylene 5590

Benzo(k)Fluoranthene 5600

Chrysene 5855

Dibenz(a,h)Anthracene 5895

Fluoranthene 6265

Fluorene 6270

Indeno(1,2,3,cd)Pyrene 6315

Naphthalene 5005

Phenanthrene 6615

Pyrene 6665

Solid

2-Methylnaphthalene 6385

Acenaphthene 5500

Acenaphthylene 5505

Anthracene 5555

Benzo(a)Anthracene 5575

Benzo(a)Pyrene 5580

Benzo(b)Fluoranthene 5585

Benzo(g,h,i)Perylene 5590

Benzo(k)Fluoranthene 5600

Chrysene 5855



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ARDL, Inc.

400 Aviation Drive, Mt. Vernon, IL 62864
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	Code
Organic	
EPA 8270C SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)	10242407
Solid	
Dibenz(a,h)Anthracene	5895
Fluoranthene	6265
Fluorene	6270
Indeno(1,2,3,cd)Pyrene	6315
Naphthalene	5005
Phenanthrene	6615
Pyrene	6665
EPA 8270D by Gas Chromatography Mass Spectrometry (GC/MS)	10186002
Aqueous	
1,2,4,5-Tetrachlorobenzene	6715
1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
2,2'-Oxybis(1-Chloropropane) (was bis(2-Chloroisopropyl)ether)	4659
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	6360
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3,3'-Dichlorobenzidine	5945
3-Nitroaniline	6465
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Methylphenol (p-Cresol, as 3+4-Methylphenol)	6410



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EPA 8270D by Gas Chromatography Mass Spectrometry (GC/MS)	10186002
Aqueous	
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200
Fluoranthene	6265
Fluorene	6270
Hexachlorobenzene	6275
Hexachlorobutadiene	4835
Hexachlorocyclopentadiene	6285
Hexachloroethane	4840
Indeno(1,2,3,cd)Pyrene	6315
Isophorone	6320
Naphthalene	5005
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535



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Code

Organic

EPA 8270D by Gas Chromatography Mass Spectrometry (GC/MS) 10186002

Aqueous

Pentachlorophenol (PCP)	6605
Phenanthrene	6615
Phenol	6625
Pyrene	6665
Pyridine	5095

Solid

1,2,4,5-Tetrachlorobenzene	6715
1,2,4-Trichlorobenzene	5155
1,2-Dichlorobenzene	4610
1,3-Dichlorobenzene (1,3-DCB)	4615
1,4-Dichlorobenzene	4620
2,2'-Oxybis(1-Chloropropane) (was bis(2-Chloroisopropyl)ether)	4659
2,4,5-Trichlorophenol	6835
2,4,6-Trichlorophenol	6840
2,4-Dichlorophenol	6000
2,4-Dimethylphenol	6130
2,4-Dinitrophenol	6175
2,4-Dinitrotoluene (2,4-DNT)	6185
2,6-Dinitrotoluene (2,6-DNT)	6190
2-Chloronaphthalene	5795
2-Chlorophenol	5800
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	6360
2-Methylnaphthalene	6385
2-Methylphenol (o-Cresol)	6400
2-Nitroaniline	6460
2-Nitrophenol	6490
3,3'-Dichlorobenzidine	5945
3-Nitroaniline	6465
4-Bromophenyl Phenyl Ether (BDE-3)	5660
4-Chloro-3-Methylphenol	5700
4-Chloroaniline	5745
4-Chlorophenyl Phenylether	5825
4-Methylphenol (p-Cresol, as 3+4-Methylphenol)	6410
4-Nitroaniline	6470
4-Nitrophenol	6500
Acenaphthene	5500



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Organic

EPA 8270D by Gas Chromatography Mass Spectrometry (GC/MS) 10186002

Solid

Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Benzoic Acid	5610
Benzyl Alcohol	5630
bis(2-Chloroethoxy)Methane	5760
bis(2-Chloroethyl)Ether	5765
bis(2-Ethylhexyl)Phthalate (DEHP, as di(2-ethylhexyl) phthalate)	6065
Butyl Benzyl Phthalate	5670
Carbazole	5680
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Dibenzofuran	5905
Diethyl Phthalate	6070
Dimethyl Phthalate	6135
di-n-Butyl Phthalate	5925
di-n-Octyl Phthalate	6200
Fluoranthene	6265
Fluorene	6270
Hexachlorobenzene	6275
Hexachlorobutadiene	4835
Hexachlorocyclopentadiene	6285
Hexachloroethane	4840
Indeno(1,2,3,cd)Pyrene	6315
Isophorone	6320
Naphthalene	5005
Nitrobenzene	5015
n-Nitrosodimethylamine	6530
n-Nitrosodi-n-Propylamine	6545
n-Nitrosodiphenylamine	6535
Pentachlorophenol (PCP)	6605
Phenanthrene	6615



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Accreditation is granted to the facility to perform the following testing:

	Code
Organic	
EPA 8270D by Gas Chromatography Mass Spectrometry (GC/MS)	10186002
Solid	
Phenol	6625
Pyrene	6665
Pyridine	5095
EPA 8270D SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)	10242509
Aqueous	
1,4-Dioxane (1,4-Diethyleneoxide, p-Dioxane)	4735
2-Methylnaphthalene	6385
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Fluoranthene	6265
Fluorene	6270
Indeno(1,2,3,cd)Pyrene	6315
Naphthalene	5005
Phenanthrene	6615
Pyrene	6665
Solid	
2-Methylnaphthalene	6385
Acenaphthene	5500
Acenaphthylene	5505
Anthracene	5555
Benzo(a)Anthracene	5575
Benzo(a)Pyrene	5580
Benzo(b)Fluoranthene	5585
Benzo(g,h,i)Perylene	5590
Benzo(k)Fluoranthene	5600
Chrysene	5855
Dibenz(a,h)Anthracene	5895
Fluoranthene	6265



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ARDL, Inc.

400 Aviation Drive, Mt. Vernon, IL 62864
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Accreditation is granted to the facility to perform the following testing:

Code

Organic

EPA 8270D SIM by Gas Chromatography Mass Spectrometry (GC/MS) Selective Ion Monitoring (SIM)	10242509
Solid	
Fluorene	6270
Indeno(1,2,3,cd)Pyrene	6315
Naphthalene	5005
Phenanthrene	6615
Pyrene	6665

Preparation

Aqueous

EPA 3010A	Acid Digestion for Total Metals (Hot Block)
EPA 3510C	Separatory Funnel Liquid-Liquid Extraction
EPA 5030B	Purge-and-Trap for Volatile Organics in Aqueous Samples

Solid

EPA 1311	Toxicity Characteristic Leaching Procedure (TCLP)
EPA 3050B	Acid Digestion for Metals
EPA 3550B	Ultrasonic Extraction
EPA 5035A	Purge-and-Trap and Extraction For Volatile Organics (Closed-System)

Footnotes:

> Method codes are typically based on The NELAC Institute (TNI) Laboratory Accreditation Management System (LAMS) and are used to compare to the laboratory reported Performance Test (PT) results. Although the method code may not represent the specific method version, it is the method code used to represent the method/technology used to report PTs. (NC = No Code)