



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

**Department of Environmental
Conservation**

DIVISION OF SPILL PREVENTION AND RESPONSE
Contaminated Sites Program
Laboratory Approval Program

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October 30, 2018

Jim Bruya
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

RE: Contaminated Sites Laboratory Approval **17-017**

Dear Mr. Bruya,

Thank you for submitting an application to the Alaska Department of Environmental Conservation's Contaminated Sites Laboratory Approval Program (CSLAP). Based on your lab's National Environmental Laboratory Accreditation Program (NELAP) approval through the Oregon Environmental Laboratory Accreditation Program (ORELAP), Friedman & Bruya, Inc., located at the above address, is granted **Approved** status to perform the analyses listed in the attached *Scope of Approval*, for Alaska contaminated sites projects, including underground storage tanks and leaking underground storage tank sites (UST/LUST), under the July 1, 2017 amendments to 18 AAC 78. This approval expires on **April 5, 2019**.

Be aware that **any** changes in your NELAP approval status must be reported to the CS program within 3 business days. Failure to do so will result in revocation of **all** CSLAP approvals for a period of one year. Notification should be in writing sent to cs.lab.cert@alaska.gov. We recommend also contacting the CSLAP by telephone to verify that the message was received.

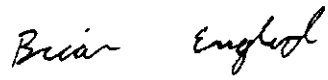
To report any changes in your lab's contact information (i.e. lab director, business name, location, etc.), please complete the form found at <http://dec.alaska.gov/spar/csp/LabApproval/ApplyForApproval.htm> and submit to cs.submittals@alaska.gov.

To apply for renewal of your approval, please complete the application found at <http://dec.alaska.gov/spar/csp/LabApproval/ApplyForApproval.htm> and submit to cs.submittals@alaska.gov. The required documentation must be submitted for renewal no later than 30 days before your date of expiration.

Please remember to include the laboratory's ID number, listed above, on all correspondence concerning the laboratory.

If you have any questions, please contact the CSLAP at (907) 465-5390, or by email at cs.lab.cert@alaska.gov. Labs are also highly encouraged to join the CSLAP listserv by going to <http://list.state.ak.us/mailman/listinfo/cs.lab.approval>.

Respectfully,

A handwritten signature in black ink that reads "Brian Englund". The signature is written in a cursive style.

Brian Englund
Alaska CS Lab Approval Officer

Attachment: Scope of Approval

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Acenaphthene	83-32-9	8270D	X	X	---	ORELAP
Acenaphthene	83-32-9	8270D-SIM	X	X	---	ORELAP
Acenaphthylene	208-96-8	8270D	X	X	---	ORELAP
Acenaphthylene	208-96-8	8270D-SIM	X	X	---	ORELAP
Acetone	67-64-1	8260C	X	X	---	ORELAP
Acetone	67-64-1	TO-15	---	---	X	ORELAP
Aldrin	309-00-2	8081B	X	X	---	ORELAP
Anthracene	120-12-7	8270D	X	X	---	ORELAP
Anthracene	120-12-7	8270D-SIM	X	X	---	ORELAP
Antimony (metallic)	7440-36-0	200.8	X	X	---	ORELAP
Antimony (metallic)	7440-36-0	6020A	X	X	---	ORELAP
Arsenic, Inorganic	7440-38-2	200.8	X	X	---	ORELAP
Arsenic, Inorganic	7440-38-2	6020A	X	X	---	ORELAP
Barium	7440-39-3	200.8	X	X	---	ORELAP
Barium	7440-39-3	6020A	X	X	---	ORELAP
Benz[a]anthracene	56-55-3	8270D	X	X	---	ORFLAP
Benz[a]anthracene	56-55-3	8270D-SIM	X	X	---	ORFLAP
Benzene	71-43-2	8021B	X	X	---	ORELAP
Benzene	71-43-2	8260C	X	X	---	ORELAP
Benzene	71-43-2	TO-15	---	---	X	ORELAP
Benzene	71-43-2	TO-17	---	---	X	ORELAP
Benzo[a]pyrene	50-32-8	8270D	X	X	---	ORELAP
Benzo[a]pyrene	50-32-8	8270D-SIM	X	X	---	ORELAP
Benzo[b]fluoranthene	205-99-2	8270D	X	X	---	ORELAP
Benzo[b]fluoranthene	205-99-2	8270D-SIM	X	X	---	ORELAP
Benzo[g,h,i]perylene	191-24-2	8270D	X	X	---	ORELAP
Benzo[g,h,i]perylene	191-24-2	8270D-SIM	X	X	---	ORELAP

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Benzo [k]fluoranthene	207-08-9	8270D	X	X	---	ORELAP
Benzo [k]fluoranthene	207-08-9	8270D-SIM	X	X	---	ORELAP
Benzoic Acid	65-85-0	8270D	X	X	---	ORELAP
Benzyl Alcohol	100-51-6	8270D	X	X	---	ORELAP
Beryllium and compounds	7440-41-7	200.8	X	X	---	ORELAP
Beryllium and compounds	7440-41-7	6020A	X	X	---	ORELAP
Bis(2-chloroethyl)ether	111-44-4	8270D	X	X	---	ORELAP
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	8270D	X	X	---	ORELAP
Bromobenzene	108-86-1	8260C	X	X	---	ORELAP
Bromodichloromethane	75-27-4	8260C	X	X	---	ORELAP
Bromodichloromethane	75-27-4	TO-15	---	---	X	ORELAP
Bromoform	75-25-2	8260C	X	X	---	ORELAP
Bromoform	75-25-2	TO-15	---	---	X	ORELAP
Bromomethane	74-83-9	8260C	X	X	---	ORELAP
Bromomethane	74-83-9	TO-15	---	---	X	ORELAP
Butadiene, 1,3-	106-99-0	TO-15	---	---	X	ORELAP
Butyl Benzyl Phthalate	85-68-7	8270D	X	X	---	ORELAP
Butylbenzene, sec-	135-98-8	8260C	X	X	---	ORELAP
Butylbenzene, tert-	98-06-6	8260C	X	X	---	ORELAP
Cadmium	7440-43-9	200.8	X	X	---	ORELAP
Cadmium	7440-43-9	6020A	X	X	---	ORELAP
Carbon Disulfide	75-15-0	TO-15	---	---	X	ORELAP
Carbon Tetrachloride	56-23-5	8260C	X	X	---	ORELAP
Carbon Tetrachloride	56-23-5	TO-15	---	---	X	ORELAP
Chlordane, α -	5103-71-9	8081B	X	X	---	ORELAP
Chlordane, γ -	5103-74-2	8081B	X	X	---	ORELAP
Chlorobenzene	108-90-7	8260C	X	X	---	ORELAP

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Chlorobenzene	108-90-7	TO-15	---	---	X	ORELAP
Chloroform	67-66-3	8260C	X	X	---	ORELAP
Chloroform	67-66-3	TO-15	---	---	X	ORELAP
Chloromethane	74-87-3	8260C	X	X	---	ORELAP
Chlorophenol, 2-	95-57-8	8270D	X	X	---	ORELAP
Chromium (Total)	7440-47-3	200.8	X	X	---	ORELAP
Chromium (Total)	7440-47-3	6020A	X	X	---	ORELAP
Chrysene	218-01-9	8270D	X	X	---	ORELAP
Chrysene	218-01-9	8270D-SIM	X	X	---	ORELAP
Copper	7440-50-8	200.8	X	X	---	ORELAP
Copper	7440-50-8	6020A	X	X	---	ORELAP
Cresol, m- (3-Methylphenol) +	-	8270D	X	X	---	ORELAP
Cresol, p- (4-Methylphenol)	95-48-7	8270D	X	X	---	ORELAP
Cresol, o- (2-Methylphenol)	98-82-8	8260C	X	X	---	ORELAP
Cumene (Isopropylbenzene)	110-82-7	TO-15	---	---	X	ORELAP
Cyclohexane	72-54-8	8081B	X	X	---	ORELAP
DDD, 4,4'-	72-55-9	8081B	X	X	---	ORELAP
DDE, 4,4'-	50-29-3	8081B	X	X	---	ORELAP
DDT, 4,4'-	53-70-3	8270D	X	X	---	ORELAP
Dibenz[a,h]anthracene	53-70-3	8270D-SIM	X	X	---	ORELAP
Dibenz[a,h]anthracene	132-64-9	8270D	X	X	---	ORELAP
Dibenzofuran	124-48-1	8260C	X	X	---	ORELAP
Dibromochloromethane	124-48-1	8260C	X	X	---	ORELAP
Dibromochloromethane	124-48-1	TO-15	---	---	X	ORELAP
Dibromoethane, 1,2- (Ethylene Dibromide)	106-93-4	8260C	X	X	---	ORELAP
Dibromoethane, 1,2- (Ethylene Dibromide)	106-93-4	TO-15	---	---	X	ORELAP
Dibromomethane (Methylene Bromide)	74-95-3	8260C	X	X	---	ORELAP

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Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Dichlorobenzene, 1,2-	95-50-1	8260C	X	X	---	ORELAP
Dichlorobenzene, 1,2-	95-50-1	8270D	X	X	---	ORELAP
Dichlorobenzene, 1,2-	95-50-1	TO-15	---	---	X	ORELAP
Dichlorobenzene, 1,3-	541-73-1	8260C	X	X	---	ORELAP
Dichlorobenzene, 1,3-	541-73-1	8270D	X	X	---	ORELAP
Dichlorobenzene, 1,3-	541-73-1	TO-15	---	---	X	ORELAP
Dichlorobenzene, 1,4-	106-46-7	8260C	X	X	---	ORELAP
Dichlorobenzene, 1,4-	106-46-7	8270D	X	X	---	ORELAP
Dichlorobenzene, 1,4-	106-46-7	TO-15	---	---	X	ORELAP
Dichlorobenzidine, 3,3'-	91-94-1	8270D	X	X	---	ORELAP
Dichlorodifluoromethane	75-71-8	8260C	X	X	---	ORELAP
Dichlorodifluoromethane	75-71-8	TO-15	---	---	X	ORELAP
Dichloroethane, 1,1-	75-34-3	8260C	X	X	---	ORELAP
Dichloroethane, 1,1-	75-34-3	TO-15	---	---	X	ORELAP
Dichloroethane, 1,2-	107-06-2	8260C	X	X	---	ORELAP
Dichloroethane, 1,2-	107-06-2	TO-15	---	---	X	ORELAP
Dichloroethylene, 1,1-	75-35-4	8260C	X	X	---	ORELAP
Dichloroethylene, 1,1-	75-35-4	TO-15	---	---	X	ORELAP
Dichloroethylene, 1,2-cis-	156-59-2	8260C	X	X	---	ORELAP
Dichloroethylene, 1,2-cis-	156-59-2	TO-15	---	---	X	ORELAP
Dichloroethylene, 1,2-trans-	156-60-5	8260C	X	X	---	ORELAP
Dichloroethylene, 1,2-trans-	156-60-5	TO-15	---	---	X	ORELAP
Dichlorophenol, 2,4-	120-83-2	8270D	X	X	---	ORELAP
Dichloropropane, 1,2-	78-87-5	8260C	X	X	---	ORELAP
Dichloropropane, 1,2-	78-87-5	TO-15	---	---	X	ORELAP
Dichloropropene, 1,3- (cis + trans)	542-75-6	8260C	X	X	---	ORELAP
Dichloropropene, 1,3- (cis + trans)	542-75-6	TO-15	---	---	X	ORELAP

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Dieldrin	60-57-1	8081B	X	X	---	ORELAP
Diethyl Phthalate	84-66-2	8270D	X	X	---	ORELAP
Dimethylphenol, 2,4-	105-67-9	8270D	X	X	---	ORELAP
Dimethylphthalate	131-11-3	8270D	X	X	---	ORELAP
Dinitrophenol, 2,4-	51-28-5	8270D	X	X	---	ORELAP
Dinitrotoluene, 2,4-	121-14-2	8270D	X	X	---	ORELAP
Dinitrotoluene, 2,6-	606-20-2	8270D	X	X	---	OREJAP
Dioxane, 1,4-	123-91-1	8260C	X	---	---	OREJAP
Dioxane, 1,4-	123-91-1	8260C-SIM	---	X	---	ORELAP
Dioxane, 1,4-	123-91-1	TO-15	---	---	X	ORELAP
Endosulfan (Endosulfan I + Endosulfan II)	115-29-7	8081B	X	X	---	ORELAP
Endrin	72-20-8	8081B	X	X	---	ORELAP
Ethylbenzene	100-41-4	8260C	X	X	---	ORFLAP
Ethylbenzene	100-41-4	TO-15	---	---	X	ORELAP
Ethylbenzene	100-41-4	TO-17	---	---	X	ORELAP
Fluoranthene	206-44-0	8270D	X	X	---	ORELAP
Fluoranthene	206-44-0	8270D-SIM	X	X	---	ORELAP
Fluorene	86-73-7	8270D	X	X	---	ORELAP
Fluorene	86-73-7	8270D-SIM	X	X	---	OREJAP
Heptachlor	76-44-8	8081B	X	X	---	ORELAP
Heptachlor Epoxide	1024-57-3	8081B	X	X	---	OREJAP
Hexachlorobenzene	118-74-1	8270D	X	X	---	ORELAP
Hexachlorobutadiene	87-68-3	8260C	X	X	---	OREJAP
Hexachlorobutadiene	87-68-3	8270D	X	X	---	ORELAP
Hexachlorobutadiene	87-68-3	TO-15	---	---	X	ORELAP
Hexachlorocyclohexane, Alpha- (α -BHC)	319-84-6	8081B	X	X	---	ORELAP
Hexachlorocyclohexane, Beta- (β -BHC)	319-85-7	8081B	X	X	---	ORELAP

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Hexachlorocyclohexane, Delta- (δ -BHC)	319-86-8	8081B	X	X	---	ORELAP
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	8081B	X	X	---	ORELAP
Hexachlorocyclopentadiene	77-47-4	8270D	X	X	---	ORELAP
Hexachloroethane	67-72-1	8270D	X	X	---	ORELAP
Hexane, N-	110-54-3	8260C	X	X	---	ORELAP
Hexane, N-	110-54-3	TO-15	---	---	X	ORELAP
Hexanone, 2-	591-78-6	8260C	X	X	---	ORELAP
Indeno[1,2,3-cd]pyrene	193-39-5	8270D	X	X	---	ORELAP
Indeno[1,2,3-cd]pyrene	193-39-5	8270D-SIM	X	X	---	ORELAP
Isophorone	78-59-1	8270D	X	X	---	ORELAP
Lead, Total	7439-92-1	200.8	X	X	---	ORELAP
Lead, Total	7439-92-1	6020A	X	X	---	ORELAP
Mercury (elemental)	7439-97-6	1631E	X	X	---	ORELAP
Methoxychlor	72-43-5	8081B	X	X	---	ORELAP
Methyl Ethyl Ketone (2-Butanone)	78-93-3	8260C	X	X	---	ORELAP
Methyl Ethyl Ketone (2-Butanone)	78-93-3	TO-15	---	---	X	ORELAP
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	8260C	X	X	---	ORELAP
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	TO-15	---	---	X	ORELAP
Methyl tert-Butyl Ether (MTBE)	1634-04-4	8260C	X	X	---	ORELAP
Methylene Chloride	75-09-2	8260C	X	X	---	ORELAP
Methylene Chloride	75-09-2	TO-15	---	---	X	ORELAP
Methylnaphthalene, 1-	90-12-0	8270D	X	X	---	ORELAP
Methylnaphthalene, 1-	90-12-0	8270D-SIM	X	X	---	ORELAP
Methylnaphthalene, 2-	91-57-6	8270D	X	X	---	ORELAP
Methylnaphthalene, 2-	91-57-6	8270D-SIM	X	X	---	ORELAP

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Naphthalene	91-20-3	8260C	X	X	---	ORELAP
Naphthalene	91-20-3	8270D	X	X	---	ORELAP
Naphthalene	91-20-3	8270D-SIM	X	X	---	ORELAP
Nickel, Total	7440-02-0	200.8	X	X	---	ORELAP
Nickel, Total	7440-02-0	6020A	X	X	---	ORELAP
Nitrobenzene	98-95-3	8270D	X	X	---	ORELAP
Nitrosodimethylamine, N-	62-75-9	8270D	X	X	---	ORELAP
Nitroso-di-N-propylamine, N-	621-64-7	8270D	X	X	---	ORELAP
Nitrosodiphenylamine, N-	86-30-6	8270D	X	X	---	ORELAP
PCB - Aroclor-1016	12674-11-2	8082A	X	X	---	ORELAP
PCB - Aroclor-1221	11104-28-2	8082A	X	X	---	ORELAP
PCB - Aroclor-1232	11141-16-5	8082A	X	X	---	ORELAP
PCB - Aroclor-1242	53469-21-9	8082A	X	X	---	ORELAP
PCB - Aroclor-1248	12672-29-6	8082A	X	X	---	ORELAP
PCB - Aroclor-1254	11097-69-1	8082A	X	X	---	ORELAP
PCB - Aroclor-1260	11096-82-5	8082A	X	X	---	ORELAP
PCB - Aroclor-1262	37324-23-5	8082A	X	X	---	ORELAP
PCB - Aroclor-1268	11100-14-4	8082A	X	X	---	ORELAP
Pentachlorophenol	87-86-5	8270D	X	X	---	ORELAP
Phenanthrene	85-01-8	8270D	X	X	---	ORELAP
Phenanthrene	85-01-8	8270D-SIM	X	X	---	ORELAP
Phenol	108-95-2	8270D	X	X	---	ORELAP
Propyl benzene	103-65-1	8260C	X	X	---	ORELAP
Pyrene	129-00-0	8270D	X	X	---	ORELAP
Pyrene	129-00-0	8270D-SIM	X	X	---	ORELAP
Selenium	7782-49-2	6020A	X	X	---	ORELAP
Styrene	100-42-5	8260C	X	X	---	ORELAP

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Styrene	100-42-5	TO-15	---	---	X	ORELAP
Tetrachloroethane, 1,1,1,2-	630-20-6	8260C	X	X	---	ORELAP
Tetrachloroethane, 1,1,2,2-	79-34-5	8260C	X	X	---	ORELAP
Tetrachloroethane, 1,1,2,2-	79-34-5	TO-15	---	---	X	ORELAP
Tetrachloroethylene	127-18-4	8260C	X	X	---	ORELAP
Tetrachloroethylene	127-18-4	TO-15	---	---	X	ORELAP
Thallium, Total	7440-28-0	200.8	X	X	---	ORELAP
Thallium, Total	7440-28-0	6020A	X	X	---	ORELAP
Toluene	108-88-3	8260C	X	X	---	ORELAP
Toluene	108-88-3	TO-15	---	---	X	ORELAP
Toluene	108-88-3	TO-17	---	---	X	ORELAP
Toxaphene	8001-35-2	8081B	X	X	---	ORELAP
Trichlorobenzene, 1,2,3-	87-61-6	8260C	X	X	---	ORELAP
Trichlorobenzene, 1,2,4-	120-82-1	8260C	X	X	---	ORELAP
Trichlorobenzene, 1,2,4-	120-82-1	TO-15	---	---	X	ORELAP
Trichloroethane, 1,1,1-	71-55-6	8260C	X	X	---	ORELAP
Trichloroethane, 1,1,1-	71-55-6	TO-15	---	---	X	ORELAP
Trichloroethane, 1,1,2-	79-00-5	8260C	X	X	---	ORELAP
Trichloroethane, 1,1,2-	79-00-5	TO-15	---	---	X	ORELAP
Trichloroethylene	79-01-6	8260C	X	X	---	ORELAP
Trichloroethylene	79-01-6	TO-15	---	---	X	ORELAP
Trichlorofluoromethane	75-69-4	8260C	X	X	---	ORELAP
Trichlorofluoromethane	75-69-4	TO-15	---	---	X	ORELAP
Trichlorophenol, 2,4,5-	95-95-4	8270D	X	X	---	ORELAP
Trichlorophenol, 2,4,6-	88-06-2	8270D	X	X	---	ORELAP
Trichloropropane, 1,2,3-	96-18-4	8260C	X	X	---	ORELAP
Trimethylbenzene, 1,2,4-	95-63-6	8260C	X	X	---	ORELAP

Scope of Approval – X indicates approved methods

Hazardous Substance	CAS Number	Analysis Method	Sample Matrix			Accrediting Body
			Soil	Water	Air	
Trimethylbenzene, 1,2,4-	95-63-6	TO-15	---	---	X	ORELAP
Trimethylbenzene, 1,3,5-	108-67-8	8260C	X	X	---	ORELAP
Trimethylbenzene, 1,3,5-	108-67-8	TO-15	---	---	X	ORELAP
Vanadium, Total	7440-62-2	6020A	X	X	---	ORELAP
Vinyl Acetate	108-05-4	TO-15	---	---	X	ORELAP
Vinyl Chloride	75-01-4	8260C	X	X	---	ORELAP
Vinyl Chloride	75-01-4	TO-15	---	---	X	ORELAP
Xylene, m,p-	-	TO-17	---	---	X	ORELAP
Xylene, m+p -	-	8260C	X	X	---	ORELAP
Xylene, o-	95-47-6	8260C	X	X	---	ORELAP
Xylene, o-	95-47-6	TO-15	---	---	X	ORELAP
Xylene, o-	95-47-6	TO-17	---	---	X	ORELAP
Xylene, Total	1330-20-7	8021B	X	X	---	ORELAP
Zinc, Total	7440-66-6	200.8	X	X	---	ORELAP
Zinc, Total	7440-66-6	6020A	X	X	---	ORELAP
Gasoline Range Organics (GRO)	N/A	AK101	X	X	---	ORELAP
Diesel Range Organics (DRO)	N/A	AK102	X	X	---	ORELAP
Residual Range Organics (RRO)	N/A	AK103	X	X	---	ORELAP
Separatory Funnel Extraction	N/A	3510C	---	X	---	ORELAP
Ultrasonic Extraction	N/A	3550C	X	---	---	ORELAP
Purge and Trap	N/A	5030C	---	X	---	ORELAP
Closed-System Purge and Trap	N/A	5035B	X	---	---	ORELAP