Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental
Form MJ-06: Marijuana Testing Facility

What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana testing facility license and must accompany the **Marijuana Establishment Operating Plan (Form MJ-01)**, per 3 AAC 306.020(b)(11). Applicants should review **Chapter 306: Article 6** of the **Alaska Administrative Code.** This form will be used to document how an applicant intends to meet the requirements of those regulations. If your business has a formal operating plan, you may include a copy of that operating plan with your application, but all fields of this form must still be completed per 3 AAC 306.020 and 3 AAC 306.615(2).

What additional information is required for testing facilities?

Applicants must identify how the proposed establishment will comply with applicable regulations regarding the following:

- Prohibitions
- Testing practices and procedures
- Employee qualification and training
- Security
- Reporting and records retention

This form must be submitted to AMCO's main office before any marijuana testing facility license application will be considered complete.

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:	FAIRBANKS ANALYTICAL TESTING, LL	**License Number:**	**15124**		
License Type:	**MARIJUANA TESTING FACILITY**				
Doing Business As:	**FAIRBANKS ANALYTICAL TESTING, LLC.**				
Premises Address:	**1521 STACIA STREET, SUITE A**				
City:	**FAIRBANKS**	**State:**	ALASKA	**ZIP:**	99701

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Section 2 – Prohibitions

Applicants should review 3 AAC 306.610 and be able to answer "Agree" to all items below.

The marijuana testing facility will not:	Agree	Disagree
Sell, deliver, distribute or transfer any marijuana or marijuana product to a consumer, with or without compensation	☑	☐
Allow any person to consume marijuana or marijuana product on its licenses premises	☑	☐

Section 3 – Testing Practices and Procedures

Review the requirements under 3 AAC 306.615, 3 AAC 306.635 – 3AAC 306.645, and 3 AAC 306.660, and identify how the proposed establishment will meet the listed requirements.

Describe each test the marijuana testing facility will offer:

FAT, LLC shall provide all tests necessary to not only establish compliance, but to ensure the safety recreational marijuana participants. Our facility has purchased top of the line equipment capable of preforming all analytical and profiling tests on all marijuana and marijuana manufactured products including concentrates. Our tests will include:
1.) Potency testing; for this we will utilize our Agilent 1100 LC System with Quaternary Pump & DAD
a.) With this machine we will be able to gather the percentage of THC, THCA, CBD, CBDA and CBN to acquire our THC/CBD overall percentage.
2.) Mold and Mildew Testing these will be done with an M3 petrie plate and an incubator.
3.) Residual Solvents will be tested with our Agilent/HP 6890N GC System
a.) This system is capable of detecting Acetone, Butane, Ethanol, Heptane, Hexane, Isopropanol, Pextane, Xylenes, Benzene, and toluene.
Propane in all marijuana manufactured products,
4.) Microbial, Mycotoxin and pesticide screening: for this analysis we will be utilizing our TSQ Quantum Ultra LC/MS/MS Sensitive Triple Quad
a.) With this with this equipment we are able to test for harmful microbial such as salmonella and E. Coli as well as Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger fungus. This machine is also capable of detecting traces of pesticides.

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Form MJ-06: Marijuana Testing Facility

Standard Operating Procedure Manual (3 AAC 306.640):

Applicants for marijuana testing facilities must have a written procedures manual with detailed instructions explaining how to perform each testing method the applicant or marijuana testing facility uses, and minimum standards for each test. Applicants should be able to answer "Agree" to all items below.

The marijuana testing facility will ensure that the standard operating procedure manual:	Agree	Disagree
Is available to each employee at all times	☑	☐
Will cover at least the required procedures listed under 3 AAC 306.640	☑	☐

Describe the marijuana testing facility's standard operating procedure for each test the facility will offer:

1) Sample receiving
After receiving, the sample will be scanned into the limbs system and stored in a guarded laboratory place. Samples will be homogenized and representative aliquots will be taken for further analysis.
2) Moisture
Depending on kind of sample moisture content will be determined at one aliquot will be dried to determine the moisture content. Samples will be kept at 30℃ for a minimum of 24 hours but long enough to confirm constant weight for repeated 3 weighing with 60 minutes drying period between weighing. The moisture content will be determined as weight % based on the wet weight of the sample.
3) Potency
Summary: This procedure provides a summary of the laboratory steps of sample preparation for
testing moisture content and potency in cannabis (flower and trim) and cannabis products (edibles, extracts and concentrates). Potency is determined using a High Performance Liquid Chromatograph (HPLC Agilent 1100) with an Diode Array Detector (DAD Agilent 1100) and autosampler.
Analytes of interest: THCA, δ9-THC, δ8-THC, CBD, CBDA, CBN
Sample extraction: Between 5g and 0.1g of sample (depending on its kind) will be weight out and mass will be recorded to 0.0001g. Samples will be placed into a 10 mL culture vial with 5-10
mL of solvent (methanol or acetonitrile depending on type of sample), capped and sonicated for
30 minutes. Sonication temperature will be kept constant at 35℃ since acidic forms of cannabinoids are heat sensitive and degrade. See Page 8.

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(Additional Space as Needed):

cont. of Pg. 8 of Pg. 3 Block 1 4) Residual Solvents Summary: Residual solvents are analyzed in samples that were extracted using solvents. This analysis is performed using Gas Chromatograph with Headspace autosampler (42 positions, 6, 10, 20 mL), GC oven with split/splitless injector and flame induced detector (GC FID, Agilent 6890). For separation a capillary column specific designed for separation of volatile compounds is selected (HP-Fast GC residual solvent, Agilent) Analytes of interest: n-Butane, n-Heptane, Benzene, Heptane, Toluene, m,p-Xylene, o-Xylene Extraction: Depending on the kind of samples extractions are performed in water or organic solvent. Between 0.1 and 2g of samples are weight out and masses are recorded to 0.0001g. Samples are placed into the autosampler vial a defined amount of solvent and ISTD is added and vial is capped with crimp septa. Sample vials are put on a shaker for 24 hours to equilibrate volatiles from sample with the headspace. Analysis: After 24 hours of shaking samples are placed in the autosampler and analyzed for volatile compounds. A heating program is designed for the headspace sampler including a warmup of the sample for 10 minutes to 85 C. Then sample is injected into a 1 mL loop (1min) at 95 C and transferred (transfer line 110 C) to a GC column with split mode 7/1 and split flow at 30 cm/min. The purge time is 0.5 minute with purge pressure 10 psi. The GC oven is ramped from 40 C (1.7min) to 90 C (6C/min) to 250 C (30 C/min). He flowrate of 35cm/min. The compounds are identified based on their retention time. Area ratios between ISTD and analyte are calculated by Chemstation software (Agilent). Quantification: Quantification of each compound is performed using an external calibration. Calibration standards are prepared using stock solutions of 1000ppm, gas tight syringes and class A volumetric flasks. The range of the calibration should be selected to envelope the concentration of the analytes of interest (0, 1.0, 5.0, 25.0, 50.0, 100.0, 250.0, 500.0ppm). The computation of concentration is performed by Chemstation. Briefly, a linear regression is calculated from the area ratio of the analyte and ISTD for each compounds and used to compute sample concentration. Further we calculate the limit of detection (LOD) and limit of quantification (LOQ = 3x LOD) based on the statistics of the calibration line for each compound. If a sample lies outside the calibration range by more than 20% the sample needs to be diluted further and re-analyzed. 5. Quality Control Procedures: To assure highest quality of results a rigorous QC protocol is established. Continuous calibration verification (CCV): a a mid-level CCV prepared independently from calibration is run every 10th sample to verify calibration and to adjust retention times if needed. If it is different more then 20% recalibration is necessary and batch shall be re-analyzed with new calibration. Cross contamination: All equipment is cleaned using soap, water, DI water, and solvents that are used with that procedure. Gloves are used all time when handling samples and changed between samples. To monitor cross-contamination a method blank containing only the solvents, ISTD and SR is carried through the entire method for every 10th sample or each batch. If the blank concentration is above LOQ, decontaminate equipment and repeat extraction of batch. Reproducibility: To proof reproducibility of sample preparation and analysis a duplicate is performed every 10th sample or every batch. If the duplicate differs more than 20% re-analyze and check the procedure for potential errors. Matrix effects: A spiked duplicate with known concentration of analyte is run every 20th sample. If recovery is below 80% adjust procedure to matrix. Instrument blank: A pure solvent sample is run during each 10th of sample. If analytes are above LOQ decontaminate instrument and re-analyze the batch. All calculations and results are verified by a second person before reports are sent out.

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Laboratory Testing of Marijuana and Marijuana Products (3 AAC 306.645):

A licensed marijuana testing facility must meet minimum standards for laboratory testing. Applicants should be able to answer "Agree" to all items below.

The marijuana testing facility applicant has:	Agree	Disagree
Read and understands and agrees to the requirements listed under 3 AAC 306.645	☑	☐

Describe the acceptable range of results for each test the marijuana testing facility will offer:

FAT, LLC shall provide all tests necessary with adequate ranges to achieve compliance with:
1.) Potency, concentration percentage of THC, THCA, CBD, CBDA, and CBN cannabinoids.
a.)The percentage obtained from the analysis will then be created into an average where the sum of the THC and THCA will be added to create a total THC percentage and the sum of the CBD and CBDA will be recorded as the total CBD percentage.
b.) THC content when homogenous will be reported as per each individual serving, and must be within 20% of the manufacturers target.
c.) Fails of a potency test include if THC content is not Homogenous, as well as if the THC level exceeds 50mg.
2.) Microbial and fungus testing
a.) A sample is considered a fail if one or more colonies accumulate per gram for substances of:
i.) Shiga-Toxin producing Escherichia coli
ii.) Salmonella
iii.) Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger fungus
b.) Any sample with an accumulation of less then 1 colony of any microbial/ fungi will be deemed a pass.
3.) Residual Solvents
a.) Sample will be subject to fail if:
i.) Butanes exceed 799.99 ppm
ii.) Solvent-based concentrate heathens exceed 499.99 ppm
iii.) Benzene exceeds .024 ppm
iiii.) Toluene exceeds .99 ppm
v.) Hexane exceeds 9.99 ppm
vi.) Total xylenes exceeds .99 ppm

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Section 4 – Employee Qualification and Training

Review the requirements under 3 AAC 306.625 – 3 AAC 306.630, and identify how the proposed establishment will meet the listed requirements.

Proficiency Testing Program (3 AAC 306.625):

Describe how the marijuana testing facility will ensure the scientific director and all testing analysts are proficient in utilizing testing equipment and analyzing samples:

Upon employment with FAT, LLC each Analyst including facility director will be taken though a site specific, and equipment specific training on equipment and the Standard Operating Procedure provided by a certified licensed establishment to familiarize employee with the facility's protocol. In the event of arrival of new equipment, before being utilized all employees shall obtain proper training from certified and licensed establishment on equipment. Training on equipment will be updated and documented annually along with calibration of equipment.
FAT, LLC Shall participate in proficiency testing program, all employed analysts including the facility director shall participate in analyzing a series of test samples using the same procedures and same number of analysis with the same equipment, each must obtain a positive identification of 80% of the set target that is reported by the facility. Each analysis shall be reviewed and evaluated by scientific director to assure accuracy in results and compliance with procedure.
In the event of a failure to obtain a score of 100 percent proficiency testing, documented remedial action shall be taken to the extent of which the facility director must delegate his time to review all samples that have been tested and results that have been reports following the facilities latest proficiency test. Documentation shall be taken by facility director implicating the time and day the review has been completed. In addition the review of samples tested and results reported a system check on the equipment shall be preform as well as calibration of equipment to ensure machine is operating properly.
If renewal of Marijuana testing licenses occurs FAT LLC shall preform a proficiency test of delegated samples to ensure ongoing compliance with regulations to a Marijuana Testing License. The proficiency test shall be documented and approved.

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Scientific Director (3 AAC 306.630):

All marijuana testing facilities must employ a scientific director with responsibilities and qualifications set out in 3 AAC 306.630 and 3 AAC 306.640(b).

Name the scientific director and describe how he/she meets the qualifications set out in 3 AAC 306.630(b).

FAT, LLC has brought Jeff Werner on to our team acting as facility director, Jeff obtained his bachelors degree in science/Natural Resource Management in 1993 and since has accrued over 14 years of Laboratory experience for research and analytical evaluation in wet and dry labs. With experience collecting and processing samples for data used in environmental, horticultural, meteorological, and agricultural projects involving soil, water, plant tissue. Jeff also has vast experience in overseeing staff, production, and methodology involved in a laboratory setting. See Ex. A.

Section 5 – Security

Review the requirements under 3 AAC 306.650, and identify how the proposed establishment will meet the listed requirements.

Chain of Custody (3 AAC 306.650):

Describe how the marijuana testing facility will meet the chain of custody requirements as listed in this section:

FAT, LLC shall requiring a sample size from each customer of no less than 3-5 grams dependent upon the analysis requested. After receiving the proper sample size, the product shall be taken into the restricted and secured portion of lab where a photo will be taken of the packaging, bare product and sample size on scale before being placed into a sealed labeled test tube then stored in clean, dry, locking refrigerator until the lab is ready to preform the analysis.
Once analysis has been competed a printed name and signature of each tech testing/handling the product will be documented on the report. If, for any reason the sample is to be transferred to separate facility the name of the facility, date and time of transfer will be documented as well as the name of the person or entity requesting the transfer. Once samples have been adequately tested and properly documented the remains of the product will be mixed 50/50 with mulch and disposed of.
FAT, LLC is secured with 8 separate video cameras monitoring both interior and exterior of the

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(Additional Space as Needed):

Cont. of Pg. 6 Block 2
and exterior of the facility to ensure full monitoring coverage of the property and personnel at all times.

Received by AMCO 5.23.18

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Section 6 – Reporting and Records Retention

Applicants should review 3 AAC 306.670 – 3 AAC 306.675 and be able to answer "Agree" to all items below.

Reporting, Verification (3 AAC 306.670):

The marijuana testing facility applicant:	Agree	Disagree
Has read, understands, and agrees to the reporting requirements outlined in 3 AAC 306.670(a)	☑	☐
Has read, understands, and agrees to the reporting requirements outlined in 3 AAC 306.670(b)	☑	☐

Records Retention (3 AAC 306.675):

The marijuana testing facility applicant:	Agree	Disagree
Has read, understands, and agrees to the records retention requirements listed in 3 AAC 306.675	☑	☐

I declare under penalty of perjury that I have examined this form, including all accompanying schedules and statements, and to the best of my knowledge and belief find it to be true, correct, and complete.

Signature of licensee

Ronald Eads
Printed name

Subscribed and sworn to before me this 20th day of December, 2017.

ERIKA J. ROSENBERGER
Notary Public
State of Alaska
My Commission Expires Oct 27, 2020

Erika J. Rosenberger
Notary Public in and for the State of Alaska.

My commission expires: 10/27/2020

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Professional Resume

Jeffrey W. Werner
5382 Grand Teton Rd, Fairbanks AK 99709
jeff.werner.ak@gmail.com
Phone: (907) 978-6455 alt (907) 987-9461

EDUCATION

Bachelor of Science, Natural Resources Management University of Alaska Fairbanks 1993
Minor: Japanese

Focus; Plant science, horticulture, natural resources management, leadership development, environmental quality science, agriculture science, controlled environment technology, landscape management and Japanese language.

EMPLOYMENT

Watanuska LLC 1/2010 - Present
5382 Grand Teton Rd, Fairbanks Ak 99709 907-978-6455

Senior Consultant

I created a small horticultural business providing licensed and insured professional consulting and management services throughout Alaska. Specializing in greenhouse and controlled environment design and construction providing assistance from conception to crop production and hydroponic design and management. Technical assistance included LED technology for crop lighting and light management services; Integrated pest management services and pest management solutions for clients. Commercial landscape maintenance: lawns, ornamental trees and commercial flowerbed design, installation and maintenance. Provide technical assistance testing plant tissue, soil analysis and preparing for regulatory site inspection and food safety evaluations.

Alaska Cannabis Cultivators LLC 2/2017-4/2017
2693 Arla St. Fairbanks, Ak 99701 253-508-6601

Cultivation Technician

Overseen day to day production of a large scale commercial cannabis for retail sales utilizing a strong background in horticulture, plant science, controlled environments, greenhouse crop management, irrigation and integrated pest management. Involved in all aspect of the crop production from propagation to harvest.

Obtained Alaska Marijuana Handlers Card, Developed propagation techniques for increased crop production from cuttings, seeds and improved cropping techniques. Developed irrigation and controlled environment protocol to increase yield, quality and decrease crop production costs.

Kett Engineering 1/2017-3/2017
1030 30th Ave, Fairbanks, Ak 99701 907-457-3757

Winter Season Test Driver

Responsibilites involved the evaluation of pre-production test vehicles on "real world" durability test routes around Fairbanks during winter conditions. Conducted pre trip safety inspections. Perform specialized test procedures and document findings in a clear and concise manner. Driving requirements involved more that 300 miles daily on winter roads.

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Ex A, 14

Holm Town Nursery LLC 11/2015-8/2016
1030 30th Ave, Fairbanks, Ak 99701 907-457-3757

Grower, Greenhouse Production Assistant
Overseen seasonal and day to day retail plant production of annuals, baskets, perennials and vegetable transplants for retail sales utilizing a strong background in horticulture, plant science, controlled environments, greenhouse crop management, irrigation and integrated pest management.
Assisted in the seasonal and day to day business management operations including; logistics, supply and plant material ordering, shipping, inventory management, recruiting new employees, improving customer service, quality control, and safety and risk management.

Paragon Distributing LLC 7/2015-8/2015
12010 E Fence Line dr, Palmer AK 99645 907-746-2025

Delivery driver and merchandising
Provide services for a wholesale grocer company for Fairbanks, North Pole, Denali and Cantwell distribution routes for an Anchorage Alaska based company that distributes and merchandises snacks, beverages, dairy and specialty items made in Alaska.
Responsible for the daily operation and maintenance of a commercial 24 foot box truck with a lift gate requiring a class B certification with airbrake. Often heavy lifting more than 50lbs was required.
Merchandising products after delivery including rotating stock, checking expiration dates, setting up displays and insuring that the product is well presented for the customer.
Inventoried product and entered product into inventory control systems at each delivery location if necessary. This position required a high level of attention to detail, superior customer service, time management and motivation. A High level of professional customer service skills was necessary when representing the company, the brands, and fellow employees and management.

Chena Hot Springs Resort 7/2011 - 12/2014
Fairbanks, AK 99705 907-488-1409

VP Sustainability
Overseen agricultural and environmental management of ChenaFresh Greenhouse and related environmental and renewable energy activities. Selected and ordered plugs, cuttings, seeds and other propagative materials for annual flower beds and vegetable gardens throughout the resort.
Maintained and leverage subject matter expertise in environmental sustainability and agricultural development, renewable energy production techniques utilizing geothermal and alternative energy.
Implemented unique controlled environment horticultural production techniques for both hydroponic and field crops for local consumption. Conducted onsite environmental research monitoring and reclamation studies evaluating vegetation, soil characteristics and hydrologic issues.
Collected water samples for analysis recording from onsite domestic and public water wells, surface water, and irrigation water supply. Collected soil samples from construction areas for contamination and remediation, and other soils as needed to complete compliance for regulatory needs. Data was catalogued in database for use throughout the year and for trend analysis. Samples were prepared and sent to labs for analysis and reviewed to determine necessary actions if necessary.
Coordinated the 2013 and 2014 Chena Hot Springs Renewable Energy Fairs from conception to event day including coordinating the vendors, speakers, advertising, marketing, and setup.

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Ex A, Cpy

University of Alaska Fairbanks 1/1997 to 6/2011
Agricultural and Forestry Experiment Station 907-474-7005
Fairbanks, AK 99517

Horticulture Research Professional
Responsible for all aspects involving the operations and maintenance of a large university research greenhouse facility, analytical lab, and field crop areas focused toward commercial greenhouse, field crop and controlled environment experiments including climatic factors; heating, cooling, ventilation, irrigation, lighting, pest management, disease management, pesticide application, controlled environment management, crop scheduling, plant production techniques and facility management. Supervised undergraduate and graduate level students involved with all aspects of the program.
Proficient and utilized in-lab equipment for plant tissue analysis for nutrient analysis, pesticide residue, and contaminant. Prepared and processed samples for several methods including mass spectrometry, HPLC, titration and other necessary processes to achieve optimum results for technical reports and evaluation.
Assisted other researchers in fieldwork and program management Providing technical and practical support for field studies, variety trials, technology evaluations, and operations including design, planning, setup, implementation, and data collection of horticulture, range science, animal science and forest related research experiments.
Provided professional for undergraduate courses in the areas of plant science, greenhouse management and natural resource courses. Responsible for preparing lab materials and teaching the lab component of plant science courses in the lab and greenhouse.
Prepared and presented research findings in oral, poster and written formats at local, statewide and professional national meetings. Attended national and international meetings related to controlled environments, horticulture, hydroponics and greenhouse production. Information gained was used on the job and disseminated to peers and others that could benefit.

Great Northern Sea products Inc. 06/1996 to 12/1996
Anchorage, Alaska

Salmon Roe Technician / Production Manager
Managed salmon roe processing facilities in Alaska producing Japanese Ikura (caviar) for export. Production included setup, salmon egg receiving, grading, brining, drying, packaging and shipping. Developed HACCP plans and worked with local and State of Alaska regulatory agencies for processing compliance and safety regulations. Products processed included salmon eggs, sea urchin and Sea Cucumber. Utilized my Japanese language skills to communicate with employees and management in Japan.

SKILLS AND TALENTS

Proficient with many software packages including Microsoft Word, Excel. Power Point Access and using FileMaker Pro . Experienced in large format graphic design and editing layout using Photoshop, InDesign, and Illustrator. Proficient on both PC and MAC platforms for science and business applications and equipment.

Able to operate most light duty equipment including forklifts, excavators, dozers, skid steer and small engine equipment including chainsaws, lawn mowers, weed trimmers.
Laboratory experience for research and analytical evaluation in wet and dry labs. With experience collecting and processing samples for data used in environmental, horticultural, meteorological, and agricultural projects involving soil, water, plant tissue.
Fluent in spoken Japanese after spending several years in Japan and formal study,

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Knowledgeable in heating, cooling, irrigation, air handling and environmental control system design, development, management and controllers for plant production.
Able to operate large passenger busses with experience in commercial motor coaches up to 45ft, school busses both standard and automatic transmission and airbrake,

CERTIFICATES AND LICENSES

Alaska Commercial Drivers License, Class B with passenger and airbrake endorsement
Current DOT health card as of May 2016
Alaska Food Handlers Card 2017
Alaska Pesticide Applicators License, general application, turf, greenhouse,.
Alaska Marijuana Handlers Card, 2007

AFFILIATIONS

Alaska Farm Bureau Association, Fairbanks Farm Bureau 1983- Present
Alaska Farmers Union, member 2015-Present
North American Comm on Controlled Environment Tech and Use, 2001 – present
American Société of Horticultural Science, 1997- present
International Société of Horticulturae Science, 2007- present
Tanana Valley Fair Board of Directors 2004-2010
Tanana Valley Fair Association, general member (Vendor) 1996-present

REFERENCES

Dr. Meriam Karlsson, Horticulture UAF
Dr. Jennifer McBeath, Plant Pathology UAF
Mr. Jay Ramras, Owner Pikes WaterFront Lodge

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