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-05: Marijuana Product Manufacturing Facility

What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana product manufacturing 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 5** 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 306.520(3).

What additional information is required for product manufacturing facilities?

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

- Prohibitions
- Equipment, compounds, and processes to be used
- Proposed marijuana concentrates and marijuana products
- Proposed product packaging and sample labels
- Waste disposal plan
- Testing

This form must be submitted to AMCO's main office before any marijuana product manufacturing 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:	Cold Creek Extracts LLC	**License Number:**	15594		
License Type:	Marijuana Product Manufacturing Facility				
Doing Business As:	Cold Creek Extracts				
Premises Address:	7801 Schoon St Unit L				
City:	Anchorage	**State:**	ALASKA	**ZIP:**	99518

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Section 2 – Prohibitions

Applicants should review 3 AAC 306.510 and be able to answer "Agree" to all items below.

The marijuana product manufacturing facility will not:	Agree	Disagree
Sell, deliver, distribute, or transfer any marijuana, marijuana concentrate, or a marijuana product directly to a consumer, with or without compensation	☑	☐
Allow any person, including a licensee, employee, or agent, to consume marijuana, marijuana concentrate, or a marijuana product on its licenses premises	☑	☐

The marijuana product manufacturing facility will not manufacture or sell any product that:	Agree	Disagree
Is an adulterated food or drink	☑	☐
Closely resembles a familiar food or drink item including candy	☑	☐
Is packaged to look like candy, or in bright colors or with cartoon characters or other pictures or images that would appeal to children	☑	☐

Section 3 – Equipment, Compounds, and Processes to be Used

Review the requirements under 3 AAC 306.555, and identify how the proposed premises will meet the listed requirements.

Describe the equipment and solvents, gases, chemicals, and other compounds the marijuana product manufacturing facility will use to create marijuana concentrates:

-Pressure-less, Closed Loop Ethanol Extractor (utilizing grain alcohol as the solvent).

-Rotary Evaporator ("Rotovap"): Boils ethanol under vacuum pressure to separate the ethanol from concentrate containing ethanol. The ethanol is re-condensed into liquid, collected and recycled into the system.

-Fractional Short Path Distillation: Further refines crude marijuana extract by selective evaporation and condensation. (continued on next page)

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-Vacuum Oven: Crude Extract from the rotary evaporator can be further purged of any remaining ethanol, to create a Shatter or Wax type extract.

-Rosin Press (solvent-free or mechanical extraction method): Utilizing heated plates and hydraulic pressure to extract oils from flower, bubble hash, or dry sift.

-Ice Extract Bags: Varying size micron size screens are utilized to separate the glandular trichomes from the cannabis plant, utilizing ice and water.

-Portable Washing Machine: marijuana and ice are placed in a mesh bag inside the washing machine. The washing machine agitation separates trichomes from the plant material, the water is then drained and strained to capture all the trichomes.

-Ultra Sonic Emulsifier: Will be used to emulsify marijuana extract into MCT oil. This emulsifier will also be used to nucleate extract to create a Sugar Wax product.

-Warming plate with magnetic mixer: used to warm carrier oil or extract prior to infusion with the ultrasonic emulsifier.

-A10 Filler Machine: used to "inject" concentrate into delivery devices such as filling vape pen cartridges and distillate syringes.

-Manual calibrated / incremented pipette will be used to fill Full Spectrum CannaCaps.

-RoboLQ Capsule Filling Machine: Machine will eventually replace manual calibration and will be used to fill Full Spectrum CannaCaps.

-Scientific Freeze Dryer: Used to purge water from ice water hash. Also will be utilized to remove the water from properly processed ethanol hash oil.

List of gasses, chemicals, or other compounds:

-200 proof organic Ethanol (used for solvent-based extraction)

-MCT Oil (Medium Chain Triglyceride Oil, derived from Coconut Oil)

-Ice and water (used for mechanical extraction)

-Dry ice (for winterization & cold trapping volatile compounds)

-Naturally-derived terpenes (Flavor Additive)

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Describe the processes to be used to create marijuana concentrates:

Full Extract Ethanol Hash Oil: Utilizing a Pressure-less Cryogenic Ethanol Closed Loop Extractor, ethanol will be chilled and decompressed and then used to saturate the marijuana material to be subject to extraction. The resulting mixture will be decompressed and the emulsion of ethanol and marijuana extract will be sent to the chilled collection chamber. The operator then cycles that chilled emulsion back over the material several times to achieve an efficient extraction. Once extraction is complete, the extractor is connected to a Rotovap and the emulsion is transferred from the collection chamber to the Rotovap. The Rotovap will then separate ethanol from the desired extract, resulting in a crude marijuana extract. The recovered ethanol is recycled back into the system for later use. A sample from any production lot of this crude oil set aside for wholesale will be tested per 3 AAC 306.550

Pull-n-Snap Shatter: Full Extract Ethanol Hash Oil will be placed in a vacuum oven to be further purged of ethanol. Purge time in vacuum oven will vary based on several variables including the amount of ethanol left in the extract after Rotovap process. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

Sugar Wax: Prior to vacuum oven purging, the full extract ethanol hash oil will be removed from the Rotovap, and placed in a beaker. Then product will be agitated to cause nucleation of the crude extract. The extract will then go into the vacuum oven to be further purged of ethanol. Purge time in vacuum oven will vary based on several variables, Including the amount of ethanol left in the extract after Rotovap process. A commercial freeze dryer can be used to remove any residual water from the extract, once all ethanol is removed. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

Distillate: The full extract ethanol hash oil will be sent through a fractional short path distillation, where high heat is applied. As set temperature is achieved, the more volatile cannabinoids evaporate up into the packed fractionating column where the vapor is purified, by condensing and re-evaporating several times so only the most volatile compounds move forward in the system to be condensed back into a liquid and collected. Leaving a high-purity cannabinoid extract. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer, per 3 AAC 306.550.

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Rosin Melts
Either flower, bubble hash, or dry sift kief will be secured in a food grade mesh bag, placed in a folded envelope of parchment paper and placed between two heated plates, then compressed via a hydraulic jack. This process releases the oil from the glandular trichomes of the marijuana material onto the parchment paper. A random sample of each production lot yield of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

Solvent-Free Sauce
Certain consistencies of solvent-free rosin yielded from the process described previously will be further processed by placing them in a smaller micron food grade nylon mesh bag with lower heat than the previous pressing temperatures applied. The rosin filled bag will be pressed, and the darker colored terpene-rich oil will separate from the patty inside the mesh bag. A chalky, pale patty will be left behind in the mesh bag, containing cannabinoid-rich extract. The two products are collected and recombined in a jar and left to coagulate for up to several days. Once the desired consistency is achieved, a random sample of each production lot will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

Ice Melts
This product uses the Ice Water Hash method: An amount of marijuana will be added to a food grade nylon mesh bag and mixed with Ice. The bag is then agitated in an ice bath, via a portable stainless steel washing machine. The water will be drained into the Ice tract Bags, that contain different micron size screens. The different sized trichome heads will be collected in their respective screens, yielding varying qualities of ice water hash or bubble hash. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final pac aging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

Full Spectrum CannaCaps
A portion (depending on batch size and potency) of crude extract, or distillate, will be measured out to achieve 5mg of THC per capsule. The extract will be added to a warm beaker of Medium Chain Triglyceride Oil, and the mixture will be emulsified and homogenized via an ultrasonic emulsifier. Once homogenized sufficiently, the mixture will then be dispersed into size "00" capsules containing 0.9 ml of mixture. A random sample of the final packaged CannaCaps will be selected and sent to the testing lab per 3 AAC 306.550.

CannaGar (Cannabis Cigar)
Several grams of marijuana flower will be placed into a cigar-shaped mold that will be clamped shut overnight. The shaped flower will be removed from the mold, covered with 1 gram of Pull-n-Snap Shatter, then roll in 0.5 grams of Ice Water Hash. The item will then be wrapped in commercially available hemp wraps. Each individual product, the flower, the Pull-n-Snap Shatter, the Ice Water Hash will have all required testing per 3 AAC 306.550, and each individual product will be labeled on the final package. This product will only be sold to licensed retailers.

Tundra Nuggets
An approximately .5 gram marijuana bud will be covered in approximately 0.25 gram of Pull-n-Snap shatter, then rolled in approximately 0.25 gram of Ice Melts (Ice water hash). A random sample from each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer per 3 AAC 306.550.

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Vape Pen

A measured amount of distillate will be infused with previously extracted terpenes or separately-purchased wholesale terpenes to create strain specific flavor profiles. Approximately 0.5 grams or 1.0 gram of distillate will be injected into a ceramic cell vape cartridge. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Full Extract Ethanol Hash Oil
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	This extract can be light gold, amber, or dark brown in color. Will be a similar consistency & viscosity of molasses, decreasing in viscosity as it is warmed.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	Utilizing a Pressure-less Cryogenic Ethanol Closed Loop Extractor, ethanol will be chilled and decompressed and then used to saturate the marijuana material to be subject to extraction. The resulting mixture will be decompressed and the emulsion of ethanol and marijuana extract will be sent to the chilled collection chamber. Continued on next page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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The operator then cycles that chilled emulsion back over the material several times to achieve an efficient extraction. Once extraction is complete, the extractor is connected to a Rotovap and the emulsion is transferred from the collection chamber to the Rotovap. The Rotovap will then separate ethanol from the desired extract, resulting in a crude marijuana oil. The recovered ethanol is recycled back into the system for later use. Leaving behind a crude ethanol hash oil concentrate that can be further processed into other concentrates or edibles.

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Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Full Extract Ethanol Hash Oil
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Packaging for the Full Extract Ethanol Hash Oil will consist of a 750ml clear glass Weck Jar TO OTHER MANUFACUTERS ONLY.

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to manufacturer.

Manufacturer: Cold Creek Extracts
License #: 15594
Production Lot #: FEEHO 4/2017-A
Product: FULL EXTRACT ETHANOL HASH OIL
METRC #: 1234567891011121314 15
TESTING FACILITY: CANNATEST LIC XXXXX
FOR SALE TO LIC MANUFACUTURES ONLY
MANUFACTUR LIC #: XXXXX

MICROBIAL: SHIGA-TOXIN; NA, SALMONELLA SPECIES; NA, ASPERGILLUS FUMIGATUS; NA, ASPERGILLUS FLAVUS; NA, ASPERGILLUS NIGER; NA.

RESIDUAL SOLVENT: PASS

Cannabinoid Profile:

Total THC	78.2%	Total CBD:	0.5%
THC-A	87.86%	CBG:	3.11%
THC	1.17%	CBG-A	1.55%

Total Terpenes: 5.88%

Marijuana has intoxicating effects and may be habit forming and addictive.
Marijuana impairs concentration, coordination, and judgment.
Do not operate a vehicle or machinery under its influence.
There are health risks associated with consumption of marijuana.
For use only by adults twenty-one and older. Keep out of the reach of children.
Marijuana should not be used by women who are pregnant or breast feeding.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Pull-N-Snap Shatter
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Product will be light gold,to amber in color, with a smooth texture. Product will be brittle to the touch, yet elastic like putty when stretched. Shape will very greatly.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	Full Extract Hash Oil will be placed in a vacuum oven to be further purged of ethanol. Purge time in vacuum oven will vary based on several variables including the amount of ethanol left in the extract after Rotovap process. Continued on next page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550

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Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Pull-N-Snap Shatter
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Retail Only, Packaging for the Pull-N-Snap Shatter will consist of the following. 1. 0.5g of shatter in 7ml glass jar in clear/black Mylar outer bag. 2. 1.0g of shatter in 7ml glass jar in clear/black Mylar outer bag. 3. 3.5g of shatter (mini-slab) in 8"x8" square in clear/black Mylar outer bag.

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	RETAIL ONLY Final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: PNS 4/2017-A Product: PULL-N-SNAP SHATTER METRC #: 123456789101112131415 Retailer: [Retail Store Name Here] Net Weight: .5g Ingredients: FULL EXTRACT ETHANOL HASH OIL Cannabinoid Profile: Total THC 78.2% Total CBD: 0.5% THC-A 87.86% CBG: 3.11% THC 1.17% CBG-A 1.55% Total Terpenes: 5.88% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Sugar Wax
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Product will have a wet sugar (crystalline) or waxy consistency. Product will be a light golden, to a dark amber color. Product will typically appear clumpy.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	Prior to vacuum oven purging, the full extract ethanol hash oil will be removed from the Rotovap, and placed in a beaker. Then product will be agitated to cause nucleation of the crude extract. Continued on the following page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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The extract will then go into the vacuum oven to be further purged of ethanol. Purge time in vacuum oven will vary based on several variables, Including the amount of ethanol left in the extract after Rotovap process. A commercial freeze dryer can also be used to remove any residual water from the extract, once all ethanol is removed. Emulsified extract may also be placed in a sealed jar for a time period in order to better achieve a Sugar Wax type extract. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

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Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Sugar Wax
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Retail Only. Packaging for the Sugar Wax will consist of the following. 1. 0.5g of shatter in 7ml glass jar in clear/black Mylar outer bag. 2. 1.0g of shatter in 7ml glass jar in clear/black Mylar outer bag. 3. 3.5g of shatter (mini-slab) in PTFE square in clear/black Mylar outer bag.
Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: SW 4/2017-A Product: SUGAR WAX METRC #: 1234567891011121314 15 Retailer: [Retail Store Name Here] Net Weight: .5g Ingredients: FULL EXTRACT ETHANOL HASH OIL Cannabinoid Profile: Total THC 78.2% Total CBD: 0.5% THC-A 87.86% CBG: 3.11% THC 1.17% CBG-A 1.55% Total Terpenes: 5.88% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Distillate
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Product will be light yellow, to light gold in color. Product will be a oil, with a viscosity similar to molasses.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	The crude extract will be sent through fractional short path distillation, where high heat is applied. As set temperature is achieved, the more volatile cannabinoids evaporate up into the packed fractionating column where the vapor is purified by condensing and re-evaporating several times so only the most volatile compounds; Continued on following page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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move forward in the system to be condensed back into a liquid and collected. Leaving a high-purity cannabinoid extract. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

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Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Distillate
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Retail only. Packaging for the Distillate will consist of the following. 1. 0.5g of distillate in 7ml glass jar in clear/black Mylar outer bag. 2. 1.0g of distillate in 7ml glass jar in clear/black Mylar outer bag. 3. 0.5g of distillate in 1ml glass syringe in clear/black Mylar outer bag. 4. 1.0g of distillate in 1ml glass syringe in clear/black Mylar outer bag.
Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: DIST 4/2017-A Product: DISTILLATE METRC #: 12345678910111213141 5 Retailer: [Retail Store Name Here] Net Weight: .5g Ingredients: FULL EXTRACT ETHANOL HASH OIL, TERPENES Cannabinoid Profile: Total THC 78.2% Total CBD: 0.5% THC-A 87.86% CBG: 3.11% THC 1.17% CBG-A 1.55% Total Terpenes: 5.88% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Canna Caps
Type:	Edible

Product Description: Details must include the color, shape, and texture.	Product will be in a clear capsule containing a oil that will appear light gold-dark amber, or light green.

Ingredients: This box is not applicable to marijuana concentrates	MCT oil (medium chain triglyceride oil, derived from coconut oil) full extract ethanol hash oil or distillate, naturally-derived terpenes.

Standard Production Procedure and Detailed Manufacturing Process:	A portion (depending on batch size and potency) of full extract hash oil or distillate will be measured out to achieve 5 mg of THC per capsule. The extract will be added to a warm beaker of MCT oil, and the mixture will be emulsified and homogenized via an ultrasonic emulsifier.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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Once homogenized sufficiently, the mixture will then be dispersed into size "00" capsules containing 0.9 ml of mixture. A random sample of the final
packaged CannaCaps will be selected and sent to the testing lab per 3 AAC 306.560.

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Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Canna Caps
Type:	Edible

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Capsules will be clear, & the size will be "00", containing .9ml of homogenized oil. Each capsule will contain No more than 5mg of THC per capsules, and a max of Ten (10) capsules will be in a total package, for a total of No more than 50mg of THC in the package. Package will be a clear/black Mylar bag.
Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: CAP 4/2017-A Product: CANNA CAP METRC #: 12345678910111213141 5 Retailer: [Retail Store Name Here] Ingredients: FULL EXTRACT ETHANOL HASH OIL, MEDIUM CHAIN TRIGLYCERIDE OIL (FROM COCONUT OIL) Cannabinoid Profile: One (1) capsule contains 5mg THC, with ten (10) capsules per package. Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Rosin Melts
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Rosin will either be from flower/trim, or hash. Product will be light gold, to dark amber in color. Product will have a wax consistency, & can be clear or opaque in appearance.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	Either flower, bubble hash, dry sift or kief will be secured in a food grade mesh bag, placed in a folded envelope of parchment paper and placed between two heated plates, then compressed via a hydraulic jack . This process releases the oil from the glandular trichomes of the marijuana material onto the parchment paper. Continued on following page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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Continued from previous page.

A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550.

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Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Rosin Melts
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Packaging for the Rosin Melts will consist of the following. 1. 0.5g of rosin in 7ml glass jar in clear/black Mylar outer bag. 2. 1.0g of rosin in 7ml glass jar in clear/black Mylar outer bag.

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: RM 4/2017-A Product: ROSIN MELTS METRC #: 123456789101112131415 Retailer: [Retail Store Name Here] Net Weight: .5G Ingredients: FLOWER ROSIN Cannabinoid Profile: Total THC 78.2% Total CBD: 0.5% THC-A 87.86% CBG: 3.11% THC 1.17% CBG-A 1.55% Total Terpenes: 5.88% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Solvent Free Sauce
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	The product will have chunks of cannabinoid rich rosin saturated in a terpene rich oil, or it could have a saturated sugar or wax appearance. Color will be light yellow or dark amber oil saturating, cannabinoid rich rosin flakes or chunks.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	Either flower, bubble hash, dry sift or kief will be in a food grade mesh bag, placed in a folded envelope of parchment paper and placed between two heated plates, then compressed via a hydraulic jack .The resulting rosin will be further processed by placing it in a smaller micron food grade nylon mesh bag and pressed with lower heat temperatures. Continued next pg.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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The rosin filled bag will be pressed, and the darker colored terpene-rich oil will separate from the patty inside the mesh bag. A chalky, pale patty will be left behind in the mesh bag, containing cannabinoid-rich extract. The two products are collected and recombined in a jar and left to coagulate for up to several days. Once the desired consistency is achieved, a random sample of each production lot will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer per 3 AAC 306.550.

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Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Solvent Free Sauce
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Packaging for the Cold Creek Solvent Free Sauce will consist of the following. 1. 0.5g of rosin in 7ml glass jar in clear/black Mylar outer bag. 2. 1.0g of rosin in 7ml glass jar in clear/black Mylar outer bag.

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: VP 4/2017-A Product: VAPE PEN METRC #: 1234567891011121314 15 Retailer: [Retail Store Name Here] Net Weight: .5G Ingredients: DISTILLATE, TERPENES Cannabinoid Profile: Total THC 78.2% Total CBD: 0.5% THC-A 87.86% CBG: 3.11% THC 1.17% CBG-A 1.55% Total Terpenes: 5.88% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Ice Melts
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Ice water hash will have a sandy/crystalline consistency, & will appear pale yellow, to golden brown.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	This product uses the Ice Water Hash method: An amount of marijuana will be added to a food grade nylon mesh bag and mixed with Ice. The bag is then agitated in an ice bath, via a portable stainless steel washing machine. The water will be drained into the Ice Extract Bags, that contain different micron size screens. Continued on following page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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Continued from previous page.

The different sized trichome heads will be collected in their respective screens, yielding varying qualities of ice water hash or bubble hash. A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550

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Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Ice Melts
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Packaging for the Cold Creek Ice Melts will consist of the following. 1. 0.5g of rosin in 7ml glass jar in clear/black Mylar outer bag. 2. 1.0g of rosin in 7ml glass jar in clear/black Mylar outer bag.
Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: IM4/2017-A Product: Ice Melts METRC #: 123456789101112131415 Retailer: [Retail Store Name Here] Net Weight: .5G Ingredients: Ice Water Hash Cannabinoid Profile: Total THC 78.2% Total CBD: 0.5% THC-A 87.86% CBG: 3.11% THC 1.17% CBG-A 1.55% Total Terpenes: 5.88% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Cannagar
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Average cannagar will be 4-5" long, approx. .5" diameter. Product will appear light green to dark purple, depending on selected wrap leaves.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	Several grams of marijuana flower will be placed into a cigar-shaped mold that will be clamped shut overnight. The shaped flower will be removed from the mold, covered with 1 gram of Pull-n-Snap Shatter, then rolled in 0.5 grams of Ice Water Hash. The item will then be wrapped in commercially available hemp wraps. Continued on following page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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Continued from previous page.

Each individual product, the flower, the Pull-n-Snap Shatter, the Ice Water Hash will be tested per 3 AAC 306.550, and each individual product will be labeled on the final package.

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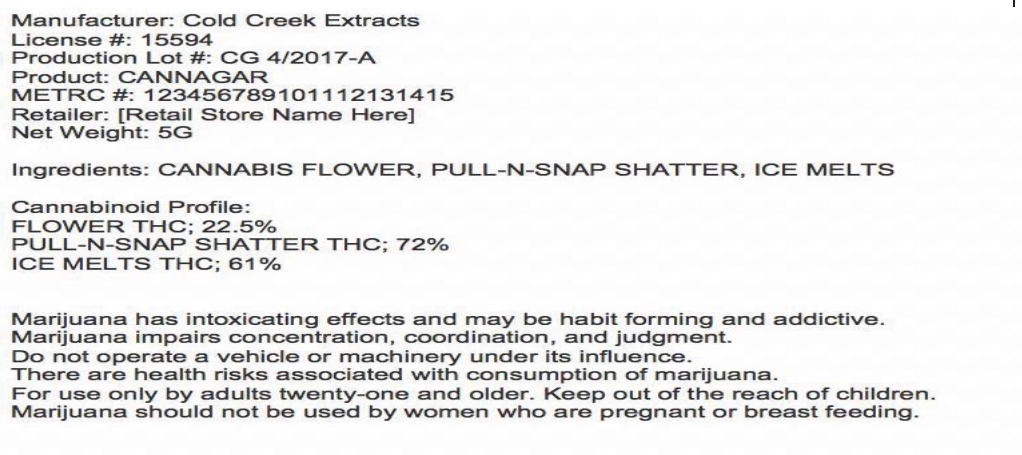
Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Cannagar
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Packaging for the cannagar will be a glass tube approximately 6"L x 0.75"W with wax seal, contained within a clear-front, labeled mylar bag.
Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Example Packaging, Final packaging images will be provided prior to first sale to retail.  Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: CG 4/2017-A Product: CANNAGAR METRC #: 1234567891011121314 15 Retailer: [Retail Store Name Here] Net Weight: 5G Ingredients: CANNABIS FLOWER, PULL-N-SNAP SHATTER, ICE MELTS Cannabinoid Profile: FLOWER THC; 22.5% PULL-N-SNAP SHATTER THC; 72% ICE MELTS THC; 61% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Tundra Nugs
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Product will look like a sand covered marijuana bud. Will have a hard shell on the outside, with a soft inside.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	An approximately 0.5 gram marijuana bud will be covered in approximately 0.25 grams of Pull-n-Snap shatter, then rolled in approximately 0.25 grams of Ice Water Hash. A random sample from each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer or manufacturer, per 3 AAC 306.550,

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Tundra Nugs
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Packaging for the Tundra Nugs will be a 3 oz glass jar with screw-top lid. Total net weight for the product will be approximately 1 g, with the ice water hash, rosin, and flower components listed by weight. This container will be required to be placed in a opaque, resealable, child-resistant exit bag at the retail location when the purchaser leaves the licensed retail premises.

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Final packaging images will be provided prior to first sale to retail.

Manufacturer: Cold Creek Extracts
License #: 15594
Production Lot #: TN 4/2017-A
Product: TUNDRA NUGS
METRC #: 12345678910111213141 5
Retailer: [Retail Store Name Here]
Net Weight: 1G

Ingredients: CANNABIS FLOWER, PULL-N-SNAP SHATTER, ICE MELTS

Cannabinoid Profile:
FLOWER THC; 22.5%
PULL-N-SNAP SHATTER THC; 72%
ICE MELTS THC; 61%

Marijuana has intoxicating effects and may be habit forming and addictive.
Marijuana impairs concentration, coordination, and judgment.
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There are health risks associated with consumption of marijuana.
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Marijuana should not be used by women who are pregnant or breast feeding.

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Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Pen
Type:	Marijuana Concentrate

Product Description: Details must include the color, shape, and texture.	Product will be packaged in .5 ml or 1 ml atomizer cartridges. Oil in the cartridges will have a light yellow to dark amber color. Battery & charger included in the Vape Pen Kit.

Ingredients: This box is not applicable to marijuana concentrates	

Standard Production Procedure and Detailed Manufacturing Process:	A measured amount of distillate will be infused with previously extracted terpenes or separately purchased wholesale terpenes to create strain specific flavor profiles. Approximately 0.5 grams or 1.0 gram of distillate will be injected into a ceramic cell vape cartridge. Continued on following page.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	Example Product, actual product images will be provided to AMCO prior to first sale.

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A random sample of each production lot of finished product will then be sent to the testing lab, prior to final packaging and labeling for sale to a licensed retailer, per 3 AAC 306.550.

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Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Pen
Type:	Marijuana Concentrate

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Packaging for the vape pen will consist of the following. 1. 0.5g of infused distillate in 0.5ml vaporizer cartridge encased in labeled plastic blister pack 2. 1.0g of infused distillate in 1ml vaporizer cartridge encased in labeled plastic blister pack
Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Example Packaging, final packaging images will be provided prior to first sale to retail. Manufacturer: Cold Creek Extracts License #: 15594 Production Lot #: VP 4/2017-A Product: VAPE PEN METRC #: 1234567891011121314 15 Retailer: [Retail Store Name Here] Net Weight: .5g Ingredients: DISTILLATE, TERPENES Cannabinoid Profile: Total THC 78.2% Total CBD: 0.5% THC-A 87.86% CBG: 3.11% THC 1.17% CBG-A 1.55% Total Terpenes: 5.88% Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination, and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

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Section 6 – Waste Disposal Plan

Review the requirements under 3 AAC 306.520, and identify how the proposed premises will meet the listed requirements.

Describe the marijuana product manufacturing facility's plan for disposal of any expired or outdated marijuana or marijuana product that is not sold or transferred to another licensed marijuana establishment:

Cold Creek Extracts waste disposal plan, is as follows:

Marijuana Waste Products:

-Post Processed Marijuana flower, trim, stalk etc.
-Waste Water from Ice Water Hash.
- Marijuana or Marijuana Product that fails quality control standards, or past expiration.

Method of Disposal:
- Marijuana or Marijuana Product: Render the marijuana & marijuana products unusable by mixing marijuana waste to a 50/50 mix with approved solid waste products.
- Wastewater: Using a 25 micron screen, marijuana will be placed in the screen & all water will be drained from the material, containing all marijuana contaminants in the screen. Once the contents of the screen, air dry, it will be added to the Post Extracted Plant Material bin.

Compost-able Solid Wastes to be used:
Food waste, yard waste, vegetable-based grease or oils.

Cold Creek Extracts will give at least three (3) days notice to the Marijuana Control Board before rendering the marijuana unusable, & disposing of it, using the METRC system
Cold Creek Extracts will ensure that the final disposal mixture is composed of no more than fifty percent (50%) marijuana waste by volume. The 50/50 mixture will be securely stored in tote, located in a secure closet inside the facility. Authorized staff will flag a Tote for disposal once a week, or once every other week. Once a tote is flagged for disposal, AMCO will be notified via METRC, three days prior to mixing & disposing of the product.

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Section 7 – Testing

The area where in-house testing will occur must be identified on the premises diagram, per 3 AAC 306.520(2).	Yes	No
Will the marijuana product manufacturing facility perform in-house testing (as defined in 3 AAC 306.990(b)(20))?	☐	☑

Applicants should review 3 AAC 306.550 and be able to answer "Agree" to the item below.

The marijuana cultivation facility applicant has:	Agree	Disagree
Read and understands and agrees to the required laboratory testing set forth in 3 AAC 306.550	☑	☐

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.

Cade W. Inscho
Signature of licensee

Cade Inscho
Printed name

Subscribed and sworn to before me this 1 day of December, 2017.

Charlotte Mercer
Notary Public in and for the State of Alaska.

My commission expires: 10-24-2020

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(Additional Space as Needed):

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