# Cannabis Regulatory Program Central Coast Regional Water Quality Control Board

#### Site Management Plan

April 4, 2019 Version



County:	Humboldt	Tier:	
Operation Name:	KINSEY PIOSE TOVM	Risk:	
Site Name:	KINCEL Ning form	Disturbed Area (ft²): パルクン	17 10
Site Address:	17m 11012tes WILLWOKCA	Cultivation Area (ft²): \ 3,000	7 700
APN(s):	35 345 004	Cumulative Disturbed Area (ft²)*:	13 200
Application ID #:		Cumulative Cultivation Area (ft²)*:	(R. Ore)

<sup>\*</sup>For sites with multiple enrollments on the same property, report the combined disturbed area and cultivation area of all cannabis cultivation on the property. If this does not apply, leave this section blank.

This plan describes how the cultivator is implementing the best practical treatment or control (BPTC) measures listed in Attachment A of the Cannabis General Order. Refer to Attachment D of the General Order for further technical report guidance. If the sections below do not provide sufficient space, you may attach additional pages.

Fill out the form electronically, save as a PDF file, and email the completed electronic form along with maps and photos to <a href="mailto:centralCoast.Cannabis@waterboards.ca.gov">CentralCoast.Cannabis@waterboards.ca.gov</a>. Please do not submit forms that have been printed and scanned.

1. Sediment Discharge BPTC Measures

#### A. Site Characteristics

i. Site Map
Attach a map of the site. The map should contain the following features with labels:
• Access roads
Vehicle parking areas
Streams
<ul> <li>Stream crossings</li> </ul>
<ul><li>Cultivation site(s)</li></ul>
Disturbed areas
Buildings
<ul> <li>Other site features that are referenced in this plan. (e.g. BPTC measures, pesticide/ fertilizer storage, trash/</li> </ul>
refuse storage, etc.)
The map should also include:
A legend
<ul> <li>A north arrow</li> </ul>
A scale bar
Topographic lines
ii. Access Road Conditions
a. What is the road surface type(s)? Check all that apply.
Applied T. Consul T. Dist T. Consults T. Other (describe)
☐ Asphalt ☐ Gravel ☐ Dirt ☐ Concrete ☐ Other (describe):

b. Is there evidence of erosion, such as gullies or rills be remediated in the space below. Yes  No	? If yes, describe current conditions and how they will
c. Does any portion of the access road(s) act as a con	nveyance for water? If yes, describe in the space below.
☐ Yes	
•	
d. What is the estimated vehicle traffic on these road	nds?
Commuter vehicles: per Day	
Commercial vehicles: per	
Heavy equipment: per	
Other per	
e. How is storm water drained from the roads? Che and Rural Roads for information on the methods list PWA-publications-library.)	eck all that apply. Refer to <i>The Handbook for Forest Ranch</i> sted below. (Available at <a href="http://www.pacificwatershed.com/">http://www.pacificwatershed.com/</a>
	口 Culverts 図 Rolling dips 図 Other (describe below) しいべそ
waterbars	

f. Describe the number, spacing, and discharge location of water drainage features.
One criver
unterbars approx every 50 ft
g. Select the erosion control and sediment capture measures used on the access roads and water drainage features. Check all that apply.
Erosion Control Measures
☐ Erosion control blankets ☐ Geotextiles ☐ Straw mulch ☐ Hydromulch  Wood mulch  Vegetation Preservation ☐ Vegetation Planting ☐ Hydroseeding ☐ Vegetated channels ☐ Check dams ☐ Other:
Sediment Capture Measures
☐ Fiber Rolls ☐ Silt fences ☐ Other:
Describe the selected measures in the space below:
h. What activities are done to maintain the roads? What activities are done to maintain erosion control measures? What is the maintenance schedule?
Slasonal Phantiace of water his and grand placement
& proposed seeding of native grasses acqued from Site

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#### **B. Sediment Erosion Prevention and Sediment Capture**

If you are classified as Moderate Risk Tier 1 or Moderate Risk Tier 2 and are submitting a Site Erosion and Sediment Control Plan that includes the following information, you may skip this section.

i. Erosion Prevention BPTC Measures
On your site map, indicate the location of erosion prevention BPTC measures described below. Describe erosion
prevention BPTC measures around all disturbed areas and features. Include BPTC measures implemented to address
erosion resulting from storm water runoff from impervious surfaces, including but not limited to parking lots and
roofs of greenhouses, warehouses, or storage facilities. Attach photos documenting implemented measures and
locations for planned implementation.
a. How is storm water drained from buildings, greenhouses, and other structures? How are storm
water conveyance systems monitored and maintained to protect water quality?
Storm wat is ovilleted from all posts in 37 gallo-contains and
Storm wat is outleted from all poofs in 37 gallo-contains and pumped to adult tanks for authorium purposes
The book to move the towns does not the training
•
b. What physical BPTC measures have been implemented to prevent or limit erosion? Check all that apply.
b. What physical be to measures have been implemented to prevent of limit erosion; check all that apply.
☐ Straw mulch ☐ Wood mulch ☐ Hydromulch ☐ Plastic covers ☐ Slope stabilization ☐ Soil binders
☐ Erosion control blankets ☐ Geotextiles ☐ Culvert outfall armoring ☐ Other:
Seed of st nature grasses aqued from site
Describe the physical BPTC measures checked above, including when they are used and where they are placed.
Describe the physical of 10 measures thethed above, including when they are used and where they are placed.
c. What biological BPTC measures have been implemented to prevent or limit erosion? (e.g. vegetation
preservation/ replacement, hydro seeding, etc.)? Check all that apply.
And the same of th
$ riangle$ Vegetation preservation $ hinspace$ Vegetation planting $\Box$ Hydroseeding $\Box$ Other:

Describe the biological BPTC measures checked above	ove, including when they are used and where they are employed.
<ul> <li>d. What physical and biological BPTC measures do that apply.</li> </ul>	you plan to implement to prevent or limit erosion? Check all
Physical BPTC measures:	
☐ Straw mulch ☐ Wood mulch ☐ Plastic cover	vers ☐ Slope stabilization ☐ Soil binders
☐ Culvert outfall armoring ☐ Other:	
Biological BPTC measures:	n planting   Hydroseeding  Other:
☐ Vegetation preservation ☐ Native vegetation	plainting in hydroseeding in Other.
The state of the s	an invalencementation ashedulo holour
Describe the planned BPTC measures and provide a	an implementation scriedule below.
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ii. Sediment Co						
control BPTC m and locations fo	easures around or planned impl	all disturbed area ementation.	s and fea	tures. Attach ph	otos documentin	n. Describe sediment g implemented measures
<ul><li>a. What physica that apply.</li></ul>	al BPTC measure	es have been impl	emented	to capture sedir	ment that has bee	en eroded? Check all
☐ Silt fences	☐ Fiber rolls	☐ Settling ponds	/ areas	□ Other:		
Describe the ph	ıvsical BPTC me	asures checked ab	ove. inclu	iding when thev	are used and wh	ere they are placed.
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			·			•
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b. What biologic that apply.	cal BPTC measu	res have been imp	lemented	to capture sedi	iment that has be	een eroded? Check all
☐ Vegetated or	utfalls 🗆 Hyd	ro seeding ZO	ther:			
Describe the bio	ological BPTC m	easures checked a	bove, incl	uding when the	y are used and w	here they are employed.
		,				
			•			
						•

c. What physical and biological BPTC measures do you plan to implement to prevent or limit erosio that apply.	n? Check all
Physical BPTC measures:	
☐ Silt fences ☐ Fiber rolls ☐ Settling ponds/ areas ☐ Other:	
Biological BPTC measures:	
☐ Vegetated outfalls ☐ Hydro seeding ☐ Other:	
Describe the planned BPTC measures and provide an implementation schedule below.	i l
lii. Maintenance Activities- Erosion Prevention and Sediment Control  a. How will erosion prevention BPTC measures, sediment control BPTC measures, and stormwater systems be monitored and maintained to protect water quality? Describe all required maintenance schedule for implementation.	conveyance ce tasks and a
. <b>1</b>	

b. How will captured sediment be handled? Check all that apply.				
Stabilized in place.	☐ Excavated and stabilized on site.	☐ Removed from the site.		
Describe the procedure	e for handling captured sediment belov	w:		
		•		
		· · · · · · · · · · · · · · · · · · ·		
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		$t^{*}$		
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#### 2. Fertilizer, Pesticide, Herbicide, and Rodenticide BPTC Measures

A. Product List					
In the sections below, list all pro	oducts used and describe how they are delivered to the site, how they are stored, and				
how they are used at the site.	Also describe how products will be removed from the site or stored to prevent				
discharge if they are not consul	discharge if they are not consumed before the winter season. If there is not enough space, list remaining products				
on a separate sheet.					
i. Fertilizers					
Product Name	Product Description				
Stritzmans					
Stritzmans Rambur mp					
•					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
annum en ini ini ara da annum an annum an annum an annum an an annum an an annum an an annum an annum an annum					
**************************************					
li. Pesticides					
Product Name	Active Ingredient and Product Description				
I I DUUDE I VUITIG.	merce mercand reader beautypron				
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE					
	·				

iii. Herbicides		
Product Name	Active Ingredient and Product Description	
·		
iv. Rodenticides		
Product Name	Active Ingredient and Product Description	
f .		

B. Product Storage Location
i. Do you use secondary containment for the storage of fertilizers, pesticides, herbicides, and rodenticides?
ZÍYes □ No
ii. Where are products stored on site? Indicate the storage location on your site map.
Az Buildry
C. Bulk Fertilizers and Chemical Concentrates
i. How are bulk fertilizers and chemical concentrates stored, mixed, and applied?
Storage in Az belly
mixed Directly in Soil
applied from messend container of pieces on soil before in 1200
ii. How are empty containers disposed of?
Stollana physic Boxs to Evera Dump
Revious mp paper Bgs usas in war to stathene fires
Karlow Mb Later Delts a got
D. Spill Prevention and Cleanup Plan
i. What procedures are in place to prevent spills of fertilizers, pesticides, herbicides, and rodenticides?
Meigre d'Contonel and
measurements are done dheetly above SIE to be amonded
Zero waste or spills

ii. What procedures are in place	
all organic for up with topsoil. Zero pesinceles,	thers used - If SpWs accor matry scrape & In wel two planted area polahades, hurbrands
. •	
:	
3. Petroleum Product BPTC M	easures
A, Product List	
	ducts used and describe how they are delivered to the site, how they are stored, and
how they are used at the site. A discharge if they are not consum	lso describe how products will be removed from the site or stored to prevent
Product Name	Product Description
gersoline	
Pusel	
motoral	
z-stroke mux	
1 20 TOCE VOUD	
distribution of the second	
·	
uutuun sa keesta een kiris sa sakata kanaan kan	
B. Product Storage Location	
າ. ມo you use secondary containi	ment for the storage of petroleum products?
ELVOS EL NO	

ii. Where are products stored on site? Indicate the storage location on your site map.
Agbuldry
C. Product Use
i. How are fuels, lubricants, and other petroleum products stored, mixed, and applied?
Stord in Seawing Corrary 37 gallon Bins
Stord in Seawy Corrary 37 gallon Bins mysel directly in california Compliant Avel Containers
appled Preetly in Egyptment
ii. How are empty containers disposed of?
Eucha Dump
D. Spill Prevention and Cleanup Plan
i What procedures are in place to prevent spills of petroleum products?
equipment to be filled is placed in 37 geller Bin
· .

1) What are and uses are he place to place the place th
ii. What procedures are in place to clean up spills if they occur?
Paper touchs use to clean small spills
Kitty Wher on ste in case of large spills
4. Trash/ Refuse, and Domestic Wastewater BPTC Measures
A. Type of Trash/ Refuse  i. What types of trash/ refuse will be generated at the site? Include a description of all solid waste materials  (e.g. spent hydroponic growing media, organic materials, plastic, paper, glass, clay, etc.)
Organi wetness are composted
pleasing contains Saved for next Season
ii. How will trash/ refuse be contained and properly disposed of?
Continues in Bays and in Secondary trush cans
DISPOSO of at Evocker Domp
iii. Where will trash/ refuse be stored? Indicate the location of trash/ refuse storage on your site map.

B. Personal Waste
i. How many employees, visitors, and residents will you have at the site?
Employees: WMC
Residents: Z
Visitors: per
ii. What types of domestic wastewater will be generated at the site? Check all that apply.  ✓ Household generated wastewater □ Chemical toilet waste □ Other:
,
iii. How will domestic wastewater be disposed? Check all that apply.
☐ Sewer Permitted onsite wastewater treatment system (e.g. septic tank and leach lines) Provide a schematic and a copy of your permit for the system.
$\square$ Chemical toilets or holding tank. If so, provide the name of the servicing company and frequency of service:
☐ Outhouse, pit privy, or similar. (Use of this alternative requires approval from the Regional Board Executive
Officer. Attach the approval from the Executive Officer and any conditions imposed if using this alternative.
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B. Maintenance of Drainage and Sediment Capture Features					
What maintenance activities will be perform	What maintenance activities will be performed to remove debris and soil blockages from drainage and sediment				
capture features (e.g. drainage culverts, drai	pinage trenches, settling ponds, etc.) and ensure adequate capacity				
exists? Include a description of how all solid	d waste materials are managed.				
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•					
• •					
	. '				
C. Revegetation Activities					
	e beginning or end of the precipitation season?				
ANIMAC LCACRCTOTION ACTIVITIES AND OCCUPATION	e beginning of end of the precipitation seasons				
	•				
	• •				
1					
•					
D. Compliance Schedule					
	e completed before the onset of winter period, contact the Regional				
Water Board to establish a compliance schedu	dule				
Provide a timeline for implementation of thes					
rrovide a differine for implementation of thes	ese ilicasules.				
·					

#### 6. Cannabis Cultivation Details

A. Growing Methods
I. Where is cannabis grown?
♥ Fully outdoor □ Hoophouse □ Greenhouse with permeable floors □ Other (please describe):
13 and 15
ii. What type of container is cannabis grown in? Check all that apply.
☑ In ground ☐ Raised beds ÆI Pots/ grow bags/ trays on the ground
□ Pots/ grow bags/ trays elevated off the ground □ Other (describe):
El Potsy grow pagsy trays elevated on the ground El Other (describer)
iii. If cannabis is grown in containers elevated off the ground, is irrigation tailwater collected?
☐ Yes ☐ No ☐ A portion of It is collected ☐ N/A
If yes, describe what you do with the captured irrigation tailwater:
B. Irrigation Water Treatment
i. Is irrigation water filtered prior to use?
☐ Yes ☒ No
If irrigation water is filtered, answer the questions below:
ii. What type of filtration is used (i.e. reverse osmosis, ion exchange,
etc.)?
111 Affine to the analytim une valuing of supror filtered for dair?
iii. What is the maximum volume of water filtered per day?
iv. How are filter residuals (i.e. brines, etc.) disposed of?
v. What is the volume of residual produced?
gallons per
7. Certification
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this
document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining
the information, I believe that the information is true, accurate, and complete. I am aware that there are significant
penalties for submitting false information, including the possibility of fine and imprisonment.
☐ I have read and accept the above terms.
Operator/Responsible Party Date Prepared

#### **DIRECTIONS FOR USE**

- Vegetable Gardens
  - 1 bag per 200sq. ft. Work in, then apply layer over rows after seeding.
- New Lawns

1 bag per 200 sq. ft. Work in, then apply a fine layer as mulch after seeding prior to rolling. Keep moist.

- Established Lawns
   1 bag per 200 sq. ft.
- Flower Beds
   Work in 1 bag per 200 sq. ft.
- Established Shrubs, Trees, Roses, etc.

  Apply a generous layer from trunk to outer edge of foliage.

Double the above amount for overworked, rundown, compacted or clay type soils.

PRODUCT SPECS			
UPC Bag V		Wt.	Pallet Wt.
25993-00001	25#		2000
Bags/Pallet		Н	igh & Tigh
80		16 x 5	



P.O. Box 307, Canby, OR 97013 888-877-7665

Please visit our website at www.stutzman-environmental.com for information about our other organic fertilizer products or our line of premium pet care products.





A ground, 100% natural organic composted mixture of sawdust and chicken manure for superior mulching, feeding and water retention.

# ALL PURPOSE GARDEN AND PLANT FERTILIZER

A HIGH PERFORMANCE, ENVIRONMENTALLY FRIENDLY, SLOW NITROGEN RELEASE PLANT FOOD



#### More Results For Dollars Spent!

Until SUP'R GREEN was formulated, chicken manure had a reputation of being too strong to be used by the average gardener. It is true, pure chicken manure will burn young and tender plants. Raw manure releases nitrogen into the soil too rapidly, causing burning. Beware of 100% pure or uncomposted manure products.

SUP'R GREEN consists of 100% broiler litter. Broilers are fed a higher protein diet which results in a higher nitrogen content in the litter. The elements are suspended in the sawdust compost providing a natural slow nutrient release that promotes lush and hearty growth in vegetable gardens, lawns, flowers and shrubs. One annual application of SUP'R GREEN improves long term soil quality and improves beneficial microbial growth.

Here at D. Stutzman Farms, we take great pride in packaging SUP'R GREEN a consistently high quality product. We can honestly say that our customers gain more result for less dollars spent.

- Over 5 times more plant food value than steer manure
- Guaranteed weed and dirt free
- · Will not burn
- Excellent for retaining moiture
- · Loosens and aerates soil
- Ground for uniform texture
- Special slow release makes it last and last
- Really makes your vegetables, flowers and lawn grow



#### **Guaranteed Analysis**

Total Nitrogen (N)	3.00%
2% Water Insoluble Nitrogen	
1% Water Soluble nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	2.00%
Soluble Potash (K <sub>2</sub> 0)	



phone: (888) 335-9044

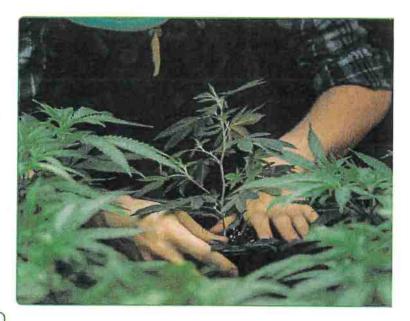
email: cannabis@bioworksinc.com

www.bioworkscannabis.com

### SuffOil-X®

SuffOil-X is an organic insecticide (Spray Oil Emulsion Insecticide, Miticide, Fungicide) that effectively controls a broad range of insects, mites and fungi - including powdery mildew. Effective control of Russet mites. SuffOil-X is an OMRI listed product.

Active Ingredients: Mineral Oil



# FOR TECHNICAL ASSISTANCE CALL (888) 335-9044

If you are a professional grower and have a question, or if you just want to discuss a particular issue, contact us.

Our team is ready to discuss your crop-specific issues or any questions you have about our products. We will provide you with rapid, comprehensive and personalized support.

#### SAFE. PROVEN. EFFECTIVE

For 25 years BioWorks has been helping customers in the horticulture and specialty agriculture markets to develop effective and efficient programs using products that are safe, proven and effective.

We are continuously reinventing the way our customers work by providing biologically based, integrated, safe solutions and programs.

#### **INSECT CONTROL**

SuffOil-X is an organic insecticide that effectively controls a broad range of insects, mites and fungi. Effective control of Russet mites.



#### SUPERIOR FORMULATION

SuffOil-X's pre-emulsification process breaks down the oil particle, reducing the droplet size. Emulsifiers are then added in the final step of the manufacturing process. The small oil droplets ensure that a very thin, uniform coating of oil is applied to the plant surface.



#### RUSSET MITE CONTROL

SuffOil-X has been used for the effective control of Russet mites. Suffocates eggs, larvae, nymphs and adults of soft-bodied insects.



### SuffOil-X®



#### AN ORGANIC INSECTICIDE (SPRAY OIL EMULSION INSECTICIDE, MITICIDE, FUNGICIDE)



- · Mineral Oil
- · Available Sizes: 2.5 gal, 30 gal
- Registered for use in the USA except: AK, DC

#### REI & PHI

· 4-hour REI, 0-day PHI

#### SHELF LIFE

Below 32 °F:

Do NOT freeze

Refrigerate 40 F:

Not needed

70' - 75 'F:

2 years

Above 75 'F:

Store cool

# APPLICATION RATES

#### FOLIAR SPRAY

- · Spray to glisten for complete coverage. Avoid runoff.
- · Apply with a fine droplet size
- · Ensure drying within 2 hours, lights off
- DO NOT FOG
- DO NOT apply to stressed plants (example: water or temperature stressed)
- · Refer to product label for full instructions

#### RATES

- 1% v/v for greenhouse application
- Up to 2% v/v for outdoor prodcution
- Refer to product label for complete instructions



#### **FOLIAR SPRAY**

· Make applications on a 7-day interval or as needed

FOR TECHNICAL ASSISTANCE CALL (888) 335-9044

# **EXHIBIT F**

# **Pesticide and Fertilizer Data Sheets**

#### DIRECTIONS FOR USE

Vegetable Gardens

1 bag per 200sq. ft. Work in, then apply layer over rows after seeding.

· New Lawns

1 bag per 200 sq. ft. Work in, then apply a fine layer as mulch after seeding prior to rolling. Keep moist.

Established Lawns

I bag per 200 sq. ft.

Flower Beds

Work in 1 bag per 200 sq. ft.

Established Shrubs, Trees, Roses, etc.
 Apply a generous layer from trunk to outer edge of foliage.

Double the above amount for overworked, rundown, compacted or clay type soils.

PRODUCT SPECS			
UPC	Bag Wt.		Pallet Wt.
25993-00001	25#		2000
Bags/Pallet		H	igh & Tigh
80			16 x 5



P.O. Box 307, Canby, OR 97013 888-877-7665

Please visit our website at www.stutzman-environmental.com for information about our other organic fertilizer products or our line of premium pet care products.





A ground, 100% natural organic composted mixture of sawdust and chicken manure for superior mulching, feeding and water retention.

# ALL PURPOSE GARDEN AND PLANT FERTILIZER

A HIGH PERFORMANCE, ENVIRONMENTALLY FRIENDLY, SLOW NITROGEN RELEASE PLANT FOOD



#### More Results For Dollars Spent!

Until SUP'R GREEN was formulated, chicken manure had a reputation of being too strong to be used by the average gardener. It is true, pure chicken manure will burn young and tender plants. Raw manure releases nitrogen into the soil too rapidly, causing burning. Beware of 100% pure or uncomposted manure products.

Sup'r Green consists of 100% broiler litter. Broilers are fed a higher protein diet which results in a higher nitrogen content in the litter. The elements are suspended in the sawdust compost providing a natural slow nutrient release that promotes lush and hearty growth in vegetable gardens, lawns, flowers and shrubs. One annual application of Sup'r Green improves long term soil quality and improves beneficial microbial growth.

Here at D. Stutzman Farms, we take great pride in packaging **SUP'R GREEN** a consistently high quality product. We can honestly say that our customers gain more result for less dollars spent.

- Over 5 times more plant food value than steer manure
- Guaranteed weed and dirt free
- Will not burn
- Excellent for retaining moiture
- Loosens and aerates soil
- Ground for uniform texture
- Special slow release makes it last and last
- Really makes your vegetables, flowers and lawn grow



#### **Guaranteed Analysis**

Total Nitrogen (N)	3.00%
2% Water Insoluble Nitrogen	
1% Water Soluble nitrogen	
Available Phosphate (P,05)	.2.00%
Soluble Potash (K,0)	



----- phone: (888) 335-9044

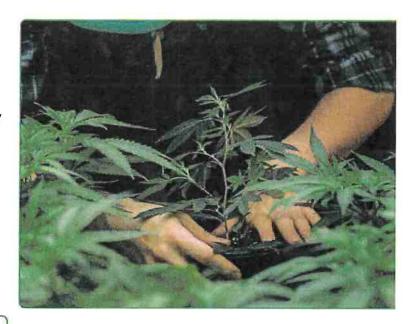
----- email: cannabis@bioworksinc.com

··· www.bioworkscannabis.com

### SuffOil-X®

SuffOil-X is an organic insecticide (Spray Oil Emulsion Insecticide, Miticide, Fungicide) that effectively controls a broad range of insects, mites and fungi - including powdery mildew. Effective control of Russet mites. SuffOil-X is an OMRI listed product.

Active Ingredients: Mineral Oil



## FOR TECHNICAL ASSISTANCE CALL (888) 335-9044

If you are a professional grower and have a question, or if you just want to discuss a particular issue, contact us.

Our team is ready to discuss your crop-specific issues or any questions you have about our products. We will provide you with rapid, comprehensive and personalized support.

#### SAFE. PROVEN. EFFECTIVE.

For 25 years BioWorks has been helping customers in the horticulture and specialty agriculture markets to develop effective and efficient programs using products that are safe, proven and effective.

We are continuously reinventing the way our customers work by providing biologically based, integrated, safe solutions and programs.

#### INSECT CONTROL

SuffOil-X is an organic insecticide that effectively controls a broad range of insects, mites and fungi. Effective control of Russet mites.



#### SUPERIOR FORMULATION

SuffOil-X's pre-emulsification process breaks down the oil particle, reducing the droplet size. Emulsifiers are then added in the final step of the manufacturing process. The small oil droplets ensure that a very thin, uniform coating of oil is applied to the plant surface.



#### RUSSET MITE CONTROL

SuffOil-X has been used for the effective control of Russet mites. Suffocates eggs, larvae, nymphs and adults of soft-bodied insects.





#### AN ORGANIC INSECTICIDE (SPRAY OIL EMULSION INSECTICIDE, MITICIDE, FUNGICIDE)



- · Mineral Oil
- · Available Sizes: 2.5 gal, 30 gal
- Registered for use in the USA except:

#### REI & PHI

· 4-hour REI, 0-day PHI

#### SHELF LIFE

Below 32 'F:

Do NOT freeze

Refrigerate 40 °F:

Not needed

70° - 75 °F: Above 75 °F: 2 years

Store cool



#### FOLIAR SPRAY

- · Spray to glisten for complete coverage. Avoid runoff.
- · Apply with a fine droplet size
- · Ensure drying within 2 hours, lights off
- · DO NOT FOG
- DO NOT apply to stressed plants (example: water or temperature stressed)
- · Refer to product label for full instructions

#### RATES

- 1% v/v for greenhouse application
- Up to 2% v/v for outdoor prodcution
- · Refer to product label for complete instructions

# APPLICATION SCHEDULE

#### **FOLIAR SPRAY**

· Make applications on a 7-day interval or as needed

FOR TECHNICAL ASSISTANCE CALL (888) 335-9044











# Introducing ...



A new, liquid bioinsecticide from Marrone Bio Innovations that's active against a wide variety of chewing and sucking insects and mites...and easy on beneficials.

# VENERATE™XC is an ideal tool for conventional and organic growing operations and offers a number of key benefits.

## VENERATEXC is an excellent addition to existing IPM and resistance management programs...

- Broad-spectrum protection against sucking and chewing insects and mites
- Activity against adults and nymphs
- Multiple modes of action
- Nontoxic to fish, birds, and most beneficial insects...including honey bees

## Managing residues to meet your customers' requirements is easy with VENERATEXC...

- √ 0-day PHI
- MRL tolerance exemption

#### **VENERATE XC** is convenient to use...

- √ 4-hour REI
- ✓ Easy-to-use liquid formulation
- ✓ No spray buffer required

## With VENERATEXC, you benefit from maximum operational flexibility...

- ✓ No limit on number of applications per season
- Approved for field and greenhouse applications
- Apply by ground or air
- ✓ OMRI approved and NOP compliant



















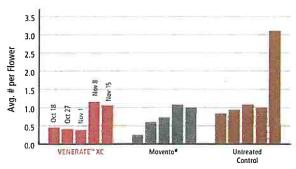


# Reduce the risk of insect resistance with VENERATE XC

VENERATE™XC is derived from a newly discovered bacterial species and is powered by several active compounds that span different chemical classes. These compounds drive multiple modes of action—exoskeleton degradation and molting interference through exposure and ingestion of the product.

With VENERATE's multiple active compounds and modes of action, the risk of insect resistance is greatly reduced.

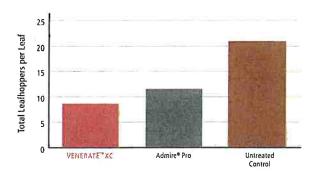
Western Flower Thrips on Strawberry WENERATE Pacific Ag Research, CA



Treatments applied 1= Oct 12, 2= Oct 19, 2010. Trial #115. All applications included surfactant.

### Leafhopper in Grapes Agriculture Development Group, WA

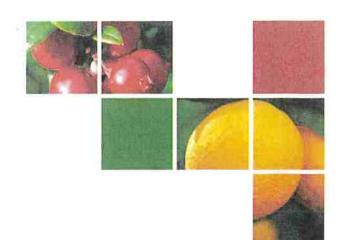
WVENERATE



Trial conducted August/September 2013. Two applications. Trial #V010. All applications included surfactant.

Always read and follow label directions

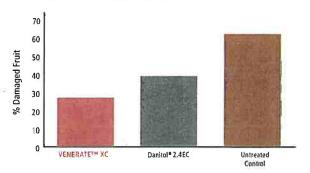
Q2014 Marrone Bio Innovations, Inc. Ali rights reserved. Venerate, the Venerate logo, Marrone Bio Innovations, and the Marrone Bio Innovations logo are trademarks or registered trademarks of Marrone Bio Innovations, Inc. All other trademarks and company names are the property of their respective owners. Patent pending VEN XC-INTRO 2014-01



### Brown Marmorated Stink Bug in Stonefruit

VENERATE

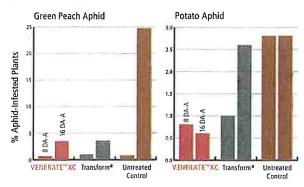
Rutgers Agricultural Research & Extension Center, NJ



Application Jul 29, 2013. Date of harvest: Aug 1 (3 days after application). Entire block was treated with Belay\* 6 oz. on Jul 11 and Baythroid\* 2 oz. on Jul 18. Trial #V6.

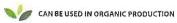
### Aphids on Potatoes University of Maine, ME

WVENERATE



Trial conducted August 2013. Two applications. Trial #V018.







FOR MORE INFORMATION CONTACT YOUR LOCAL RETAILER OR MARRONE BIO INNOVATIONS:

Phone 530-750-2800 • Toll Free 877-664-4476 Email venerate@marronebio.com

# **EXHIBIT G**

# Statement of Contingent and Limiting Conditions

# STATEMENT OF CONTINGENT AND LIMITING CONDITIONS CONCERNING THE PREPARATION AND USE OF REPORTS ADDRESSING GENERAL WASTE DISCHARGE REQUIREMENTS UNDER ORDER WQ 2019-0001-DWQ

- 1. This document has been prepared for the property within APN 315-045-004, in Humboldt County, for enrollment in the General Waste Discharge Order WQ 2019-0001-DWQ.
- 2. AgDynamix does not assume any liability for the use or misuse of the information in this document.
- 3. The information is based upon conditions apparent to AgDynamix based on client interviews, photographs and published USGS, USDA FSA, USDA Humboldt County GIS, and Esri maps at the time data was collected. Changes due to land use activities or other factors occurring after the submittal of this report, have not been considered in this document.
- 4. The conditions presented in this document may differ from those made by others or from changes on the property occurring after inspections were conducted. AgDynamix does not guarantee this work against such differences.
- 5. AgDynamix did not conduct an investigation on a legal survey of the property.
- 6. Persons using this document are advised to contact AgDynamix prior to such use.
- 7. AgDynamix will not discuss this document or reproduce it for anyone other than the Client for which this document was prepared without authorization from the Client.

Geoff Churchill

Representative

Kinsey Ridge Farm

# KINSEY RIDGE FARM SITE MANAGEMENT PLAN



Humboldt County
APN: 315-045-004

Owner: Kristi Smith Contact: Geoffrey Churchill

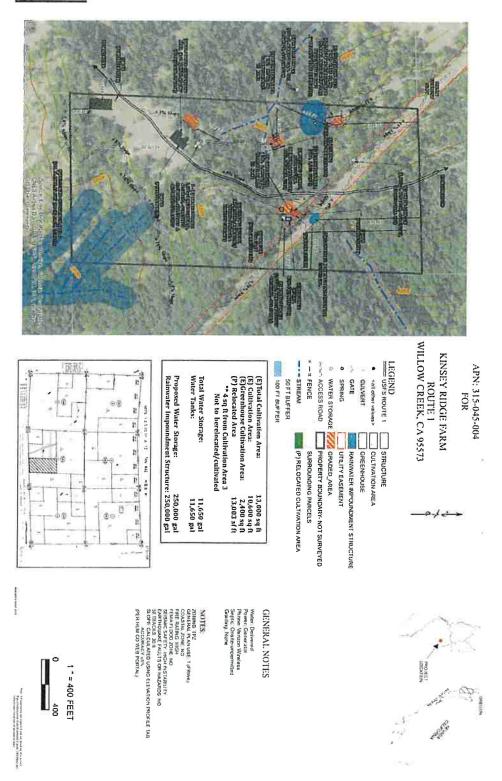
Project Name: Kinsey Ridge Farm WDID #: 1\_12CC411731 APN: 315-045-004

Route 1 Willow Creek, CA 95573

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### <u>Site Plan</u>



#### **Purpose**

This Site Management Plan (SMP) has been prepared on behalf of the cannabis cultivator for the Humboldt County property identified as assessor parcel number 315-045-004, by agreement and in response to the State Water Resources Control Board Cannabis Cultivation Policy (Cannabis Policy), in congruence with Order WQ 2019-0001-DWQ General Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation Activities (General Order). The General Order implements the Cannabis Policy requirements, specifically those requirements that address waste discharges associated with cannabis cultivation activities.

Discharges registered as Tier 1 or 2 Cannabis Cultivators are required to submit and implement a Site Management Plan describing how they are complying with the requirements listed in Attachment A of the General Order. This SMP describes how the cultivator is implementing the Best Practical Treatment or Control Measures (BPTC) listed in Attachment A are implemented across the entire property where Commercial Cannabis Cultivation is/will be occurring.

#### **Tier Designation**

Tiers are defined by the amount of disturbed area. As defined in The General Order, Disturbed Area, or "Land Disturbance" includes areas where natural plant growth has been removed whether by physical, animal, or chemical means, or natural grade has been modified for any purpose. Land disturbance includes all activities whatsoever associated with developing or modifying land for cannabis cultivation related activities or access.

Tier 1 outdoor commercial cultivation activities disturb an area equal to or greater than 2,000 square feet and less than 1 acre (43,560 square feet). Tier 2 outdoor commercial cultivation activities disturb an area equal to or greater than 1 acre. Risk designation is based on the slope of disturbed areas and the proximity to a surface water body.

According to the Notice of Receipt from the State Water Resources Control Board for the Cannabis General Order Application Number: 411731 the property will be processed as a Tier 1 Low Risk site. Tier 1 outdoor commercial cultivation activities disturb an area less than 1 acre (43,560 square feet). As was reported in the Initial Enrollment, no portion of the disturbed area is within the setback requirements, no portion of the disturbed area is located on a slope greater than 30 percent, and the cannabis cultivation area is less than or equal to 1 acre.

#### **Project Description**

This property includes approximately 30,000 square feet (.67 acres) of existing cumulative disturbed area on the 84 acre parcel. This current disturbed area is split between four graded areas dispersed throughout the parcel. The project proposes to relocate cultivation out of areas with a slope greater than 30% due to instability features and remediate existing flats for other incidental uses. There is currently no cultivation

occurring on the property.

Plans are proposed for 13,000 S.F. of cumulative outdoor cultivation on the property located in Relocation Area 1 and 2 designated on the Site Plan. This new proposed cultivation area would also disturb under an acre of land in two pre-existing, gently sloping (under 30% grade) meadow areas.

This parcel is approximately 1300 feet from White Oak Creek, 1100 feet from the Unnamed tributary to Redwood Creek, and, as the crow flies, approximately 14 miles from the town of Willow Creek.

#### Methods

The methods used to develop this SMP include both historical and client-substantiated data analysis. The historical data analysis consisted of studying published USGS, USDA FSA, Humboldt County GIS, and ESRI. In addition, this client provided a Hydraulic and Drainage Report (Exhibit E) and Site Plan (Exhibit A), both drafted by licensed professionals at Trinity Valley Consulting Engineers (TVCE) and both were analyzed for the purpose of this SMP. The client-substantiated component included an interview questionnaire, photographs, and descriptions of site-specific conditions including all access roads, vehicle parking areas, Waters of the State, stream crossings, drainage features, cultivation sites, buildings, disturbed areas, and all other relevant site features within the project area and surrounding areas. Cultivation areas, associated facilities, roads, and other developed and/or disturbed areas were assessed for discharges and related controllable water quality factors from the activities listed in the General Order.

#### 1. Sediment Discharge BPTC Measures

#### A. Site Characteristics

#### i. Access Road Conditions

The parcel is divided by USFS Route 1, a federally owned and maintained thoroughfare paved with asphalt. The parcel currently has dirt roads to the cultivation areas that will be improved in accordance with State and County standards.

The residence is located adjacent to the Forest Service Road. There are two residents/operators and no employees. Other than during harvest and planting times, travel around the property is done on foot. A pickup truck is used on site for the two planting and two harvesting days of each year.

The on-site roadways currently convey water to roadside ditches via rolling dips that, in turn, convey water through any culverts to be dispersed in the natural flow pattern of the parcel. If required by Humboldt County, the water drainage facilities will be improved to meet code requirements by incorporating energy reducing facilities such as rip-rap and bioswales to slow the water after being discharged through culverts. This will allow sediment to drop out from the conveyed stormwater.

On a yearly basis the on-site roadway will be winterized during the fall with seed, mulch and fiber rolls, as necessary. At the beginning of activities in the spring the on-site roadway will have: culverts and roadside ditches cleaned; rolling dips re-established; travel way re-graded; and, if necessary, additional gravel and dust control will be placed.

Every other fall, the road will be serviced with the heavy equipment necessary. The amount of traffic and activities on the site are such that it is not foreseen that much maintenance activities will be required during the summer months, but maintenance will be attended to during the summer as required.

#### ii. Streams

The area of use is located at the top of a hill, with no USGS mapped waterways on the parcel. The three closest blue line streams located, over 1000 feet away, on adjacent parcels are: an Unnamed Stream to the west, Cow Creek to the north east, and White Oak Creek to the south east.

Multiple Unnamed Class II and Class III waterways exist on the property. There is potentially more than one location where a previously existing cultivation area was located within the setback requirements (see site map). There is currently no cultivation occurring in those areas. A licensed professional will be contracted to assess if a Disturbed Area Stabilization Plan will be required.

There is one culvert identified on the access roads for this parcel. This an 18 inch Culvert made of corrugated plastic. A Hydraulic and Drainage Report (Exhibit D) has been

completed by a licensed professional which suggests upsizing the culvert to 30 inches. Work on the culvert will only commence once the necessary permits have been acquired with CDFW and the Water Board. Photos of the existing culvert are included in Exhibit C of this report.

#### B. Sediment Erosion Prevention and Sediment Capture

#### i. Erosion Prevention

Storm water from the roof of the residence and other structures is captured in gutters and transported to a water conveyance system that transfers the water to rainwater catchment tanks. The structures without gutters convey the stormwater towards natural drainage paths dispersed through vegetated areas.

Cultivation Area 2 also features a 96' x 8' x 8' Gabian Rock Wall armoring designed by Hilfiker Retaining Walls to prevent erosion and instability within the Cultivation Area (see Exhibit D).

If necessary, straw mulch, seed, and fiber rolls will be placed on site for temporary erosion control and also at the end of harvest prior to winter each year. Any bare soil areas will be converted to vegetation that will retard runoff and take up nutrients, pesticides, and other pollutants wherever possible. These BPTC's will be placed in accordance with the State of California General Permit.

#### ii. Sediment Control BPTC Measures

In the case of any erosion, there will be fiber rolls in place to capture sediment. The initial approach will be to prevent and minimize erosion, thereby eliminating most sediment needing capture. If required, the fiber rolls will be placed at the edges of all exposed slopes. Also if necessary, hydroseeding will be used for sediment control and dispersed during the winterization of the site.

Spoil or soil piles (piles of excavated soil or excess potting soil) that remain onsite one day or longer will be surrounded by properly installed temporary sediment barriers (fiber rolls or filter fence) and completely covered by an impermeable material or straw and seed. The impermeable fabric will also be placed on any non-vegetated spoil piles whenever a storm is impending. This practice will allow rain to flow off of the fabric instead of allowing it to quickly erode the spoil pile.

#### iii. Maintenance Activities - Erosion Prevention and Sediment Control

Erosion control consisting of fiber rolls, mulch and seed will immediately be put in place after any activities that expose slopes: either, once those slopes will no longer be worked on during the construction activities; or before any rain event.

Maintenance and inspection of BPTC's will be performed in accordance with the State of California General Construction Permit. The BPTCs will be inspected weekly, prior to and after a rain event. When any BPTC's are damaged they will be immediately repaired or

replaced. Sediment will be removed from the BPTC's as needed and will be disposed of in accordance to the General Permit.

#### 2. Fertilizer, Pesticide, Herbicide, and Rodenticide BPTC Measures

#### A. Product List

#### i. Fertilizers:

- 1. Earth Juice Rainbow Mix Pro Grow an all-purpose organic fertilizer specially formulated to promote vigorous growth during all phases of plant and tree development. A complete formula with macro and micronutrients, including mycorrhizal fungi, beneficial microbes and humic acids.
- 2. Earth Juice Rainbow Mix Pro Bloom a powerful blend of all natural ingredients and 29 different strains of mycorrhizae and beneficial microbes.
- 3. Stutzman Sup'R Green Composted Chicken Manure Fertilizer a ground, 100% natural organic composted mixture of sawdust and chicken manure for superior mulching, feeding and water retention.

#### ii. Pesticides

- SuffOil-X This pre-emulsified oil spray uses suffocation to kill many soft-bodied insects and to control certain fungal diseases. Mineral Oil is the only active ingredient.
- 2. Venerate A sustainable and highly effective liquid bioinsecticide that features multiple modes of action and is highly effective against a wide variety of chewing and sucking insects and mites yet are easy on beneficials. The active ingredients are: are heat-killed *Burkaholderia* spp. strain A396 cells and spent fermentation media.

#### iii. Herbicides

1. see above.

#### iv. Rodenticides

1. none.

#### B. Product Storage Location

All of the above-listed products and any other fertilizers, pesticides, herbicides, or rodenticides used in the future will be stored in the shed designated on site map (see Exhibit A) as "Agricultural Chemicals/Pesticide/Fuel Storage" with all containers stored in secondary containment.

#### C. Bulk Fertilizers and Chemical Concentrates

Bulk fertilizers and chemicals will be stored and mixed within the above-referenced shed. This shed is outside of any setbacks and will have secondary containment. Application will not occur within 48 hours of a predicted rain event having a 50% or greater chance of happening and producing more than .5" of rainfall during the event.

Disposal of empty containers will be in accordance with manufacturers recommendations. All bulk fertilizers and chemicals will be kept in their original containers and properly stored at all times. Containers will be routinely inspected for leaks.

#### D. Spill Prevention and Cleanup Plan

All Fertilizers, Pesticides, Herbicides, and Rodenticides will be kept in their original containers and properly stored at all times. These containers will be routinely inspected for leaks. In addition, containers with these materials are stored within a covered structure, within secured containers, and with their lids secured after their use.

There are adequate quantities of absorbent materials stored at this location. Should a spill of these materials occur, absorbent materials will be applied immediately and allowed enough time to absorb as much material as possible. Following treatment, absorbent materials applied will be removed and disposed of appropriately as per the manufacturer's guidelines. Reporting in accordance with the State of California Water Board will occur.

#### 3. Petroleum Product BPTC Measures

#### A. Product List

- 1. Gasoline Powers the gasoline-powered sprayers and other gasoline engines on site.
- 2. Oil Used for oil changes on all gas engines when required.
- 3. Bar Oil Used for oil changes with the chain saws.
- 4. Two Cycle Fuel Powers the weed eater, roto-tiller, and chainsaws.

#### B. Product Storage Location

All of the above listed products and any other petroleum products used in the will be stored in the same shed designated on the site map for fertilizer and pesticide storage.

All petroleum products and other liquid chemicals are stored so as to prevent their spillage, discharge, or seepage into receiving waters. Storage containers shall be of

suitable material and construction to be compatible with the substance(s) stored and conditions of storage such as pressure and temperature. Above ground storage tanks and containers would be provided with a secondary means of containment for the entire capacity of the largest single container. Sufficient cover shall be provided to prevent any/all precipitation from entering said secondary containment vessel.

#### C. Product Use

Small quantities of fuel and motor oil are stored within fuel canisters, or the original container, in the above-mentioned structure (see site map). Containers holding any petroleum products are stored within a covered structure, within secured containers, and with their lids secured after their use. Disposal of empty containers will be in accordance with manufacturer's recommendations. In addition, these containers will be routinely inspected for leaks.

#### D. Spill Prevention and Cleanup

Any/all fuel canisters and motor oil containers shall be stored within a covered structure in secondary containment (e.g. plastic totes or sealed metal boxes) while being stored long term or not in immediate use, wherever these materials are used anywhere on the property.

There are adequate quantities of absorbent materials stored at this location. Should a spill of these materials occur, absorbent materials will be applied immediately and allowed enough time to absorb as much material as possible. Following treatment, absorbent materials applied will be removed and disposed of appropriately as per the manufacturer's guidelines. Reporting in accordance with the State of California Water Board will occur.

#### 4. <u>Trash/Refuse</u>, and <u>Domestic Wastewater BPTC Measures</u>

#### A. Type of Trash/Refuse

The types of trash that will be generated at this site will be typical household waste such as paper, plastic, glass and other recyclables. In addition to typical household waste, additional waste associated with the cultivation of Cannabis will be created also. The Cannabis-related trash will be: plastic bags, grow pots, and jugs and containers containing fertilizers, herbicides, and pesticides.

#### B. Trash/Refuse Containment and Disposal

Trash/refuse will typically be hauled off-site to a dump or recycle facility and organic household waste will be composted. Cannabis related trash, residual nutrients, and chemicals will be disposed of in a manner that will not impact waters of the State and

will not encroach on any setbacks to riparian areas. Cannabis plant material may be disposed of onsite in compliance with any CDFA license conditions.

#### C. Trash/Refuse Storage Location

Typical household trash that can't be composted will be removed from the site and will be hauled to a landfill for disposal. Prior to removal from the site, trash will be stored in a shed designated on the site map.

Spent growth medium shall be stored in water-tight containers or covered with plastic sheeting prior to proper disposal or reuse. Spent growth medium will be disposed of at an authorized landfill or other disposal site in compliance with state and local laws, ordinances, and regulations. Proper reuse of spent growth medium may include incorporation into garden beds or spreading on a stable surface and re-vegetating the surface with native plants.

#### D. Personal Waste

#### i. Total Number of Employees, Visitors, and Residents at the Site

There will be 2 residents year round at this site. The only visitors to the site will be qualified professionals and regulators from the appropriate agencies performing routine inspections of the site.

#### ii. Types of Domestic Wastewater

The household wastewater generated at the site will be typical greywater effluents and solids.

#### iii. Disposal of Domestic Wastewater

The domestic waste will be disposed of in an On-site Wastewater Treatment System (OWTS). The OWTS will be designed and constructed in accordance with County and State requirements for permitting. Trinity Valley Consulting Engineers (TVCE) has conducted the septic suitability study and designed the OWTS in accordance with State and Local guidelines. If the project requires field laborers, portable toilets will be equipped on site that are serviced and maintained regularly.

#### 5. <u>Winterization BPTC Measures</u>

#### A. Winterization and Waste Discharge Prevention

During the winterization process, fiber rolls, seed, and mulch will be applied in accordance with State requirements. Temporary roads will be closed to through traffic

and no heavy equipment will operate during the winter period.

The site remains inaccessible from February to April due to inclimate weather conditions and no project operations would occur during this time frame.

#### B. Drainage and Sediment Capture Maintenance Activities

The owners shall maintain all culverts, drop inlets, trash racks and similar devices to ensure they are not blocked by debris or sediment. The outflow of culverts shall be inspected to ensure erosion is not undermining the culvert. Culverts shall be inspected prior to the onset of fall and winter precipitation and following precipitation events that produce at least 0.5 in/day or 1.0 inch/7 days of precipitation to determine if maintenance or cleaning is required.

#### C. Revegetation Activities

If necessary, seed and mulch will be applied to all exposed slopes prior to the beginning of the precipitation season.

#### D. Timeline for The Above Winterization, Maintenance and Revegetation Measures

Winterization will be completed prior to October 15 of each year and will not be removed until after April 15 of each year.

#### 6. Cannabis Cultivation Activities

#### A. Cannabis Cultivation Areas

The Cannabis grown at this facility will all be grown within two cultivation areas in the southeastern portion of the parcel. The cultivation area further to the east will be 5,760 square feet. The cultivation area further to the west (RA2) will be 7,236 square feet. In both proposed cultivation areas, Cannabis will be planted in the ground in augered holes with possible above ground planters/pots. Tailwater will not be captured.

#### B. Irrigation Water Filtration

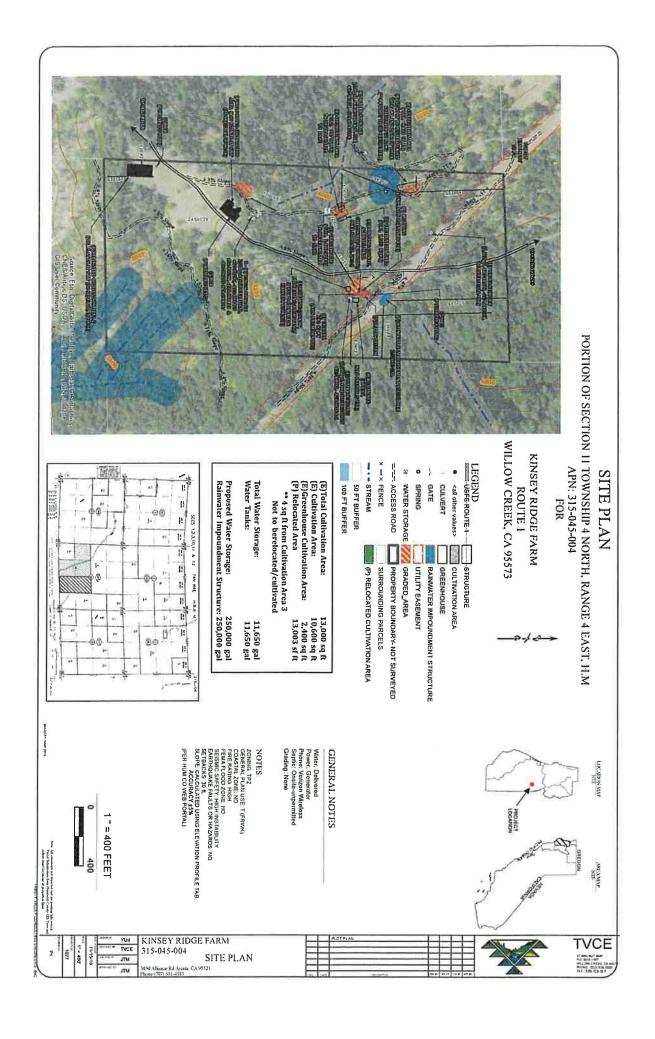
Irrigation water is not filtered prior to use. No fertigation occurs for this project. All fertilization occurs in pre soil medium preparations and through means of top dressing.

#### 7. Exhibits

- A. Site Map (Full Size)
- **B.** Location Map
- **C.** Culvert Photos
- D. Hilfiker Retaining Wall Photo
- E. Hydraulic and Drainage Report
- F. Pesticide and Fertilizer Data Sheets
- **G. Statement of Contingent and Limiting Conditions**

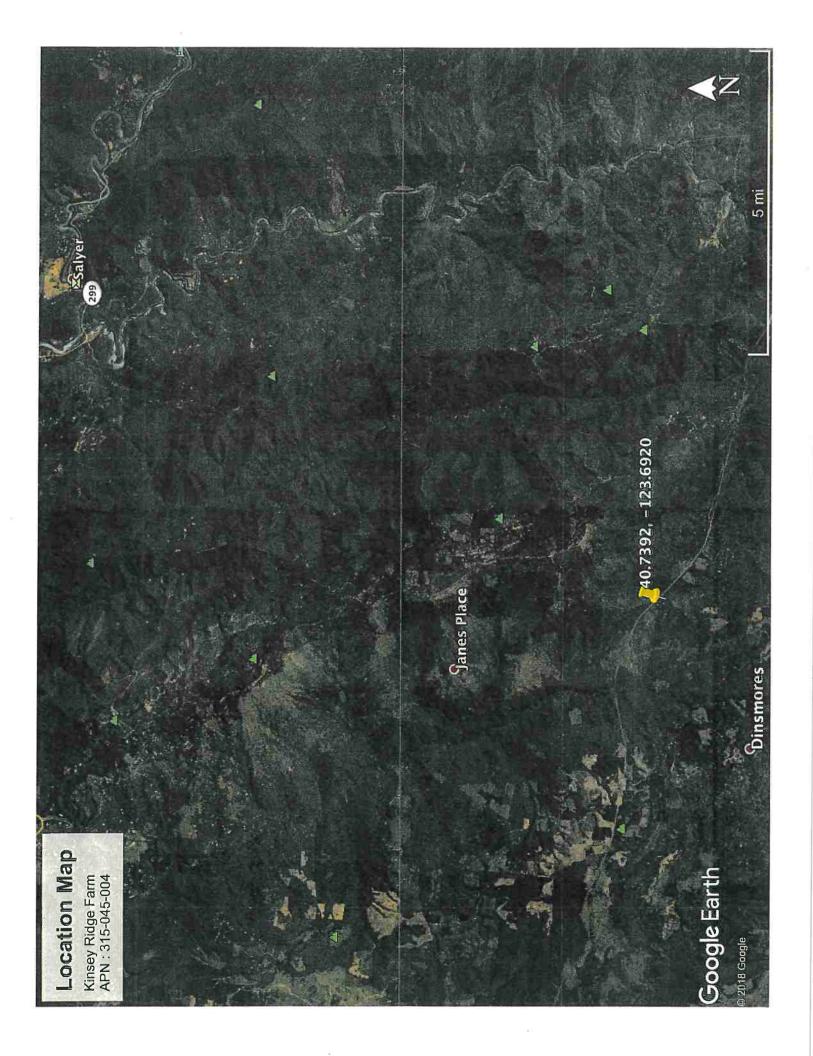
# **EXHIBIT A**

Site Map



# **EXHIBIT B**

**Location Map** 



# **EXHIBIT C**

## **Culvert Photos**

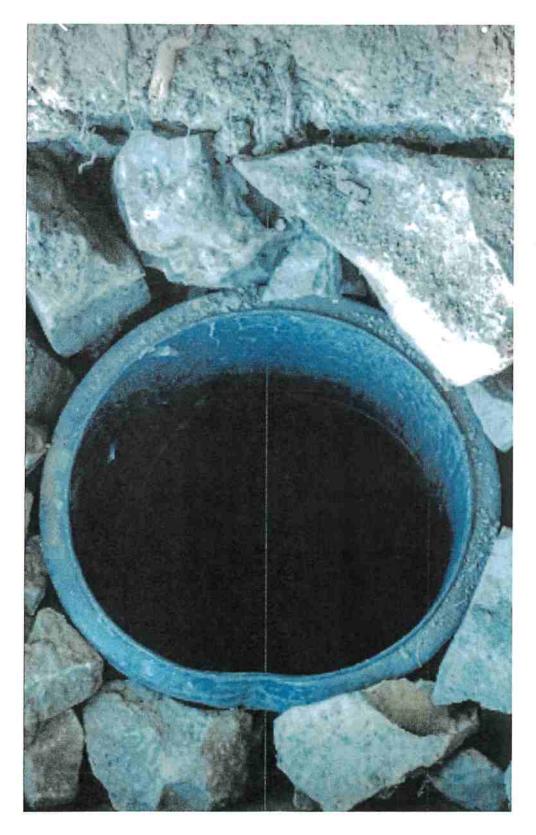


Photo 1: Culvert Inlet

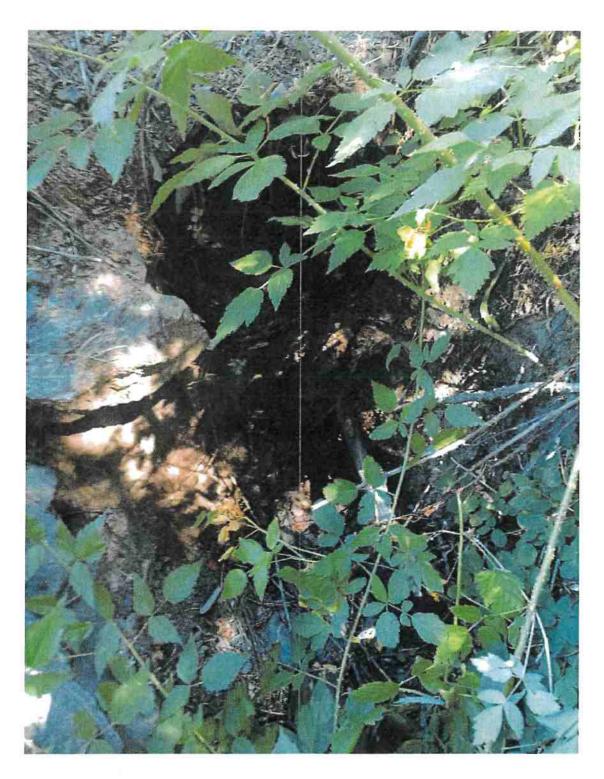


Photo 2: Culvert Outlet

# **EXHIBIT D**

**Hilfiker Retaining Wall** 

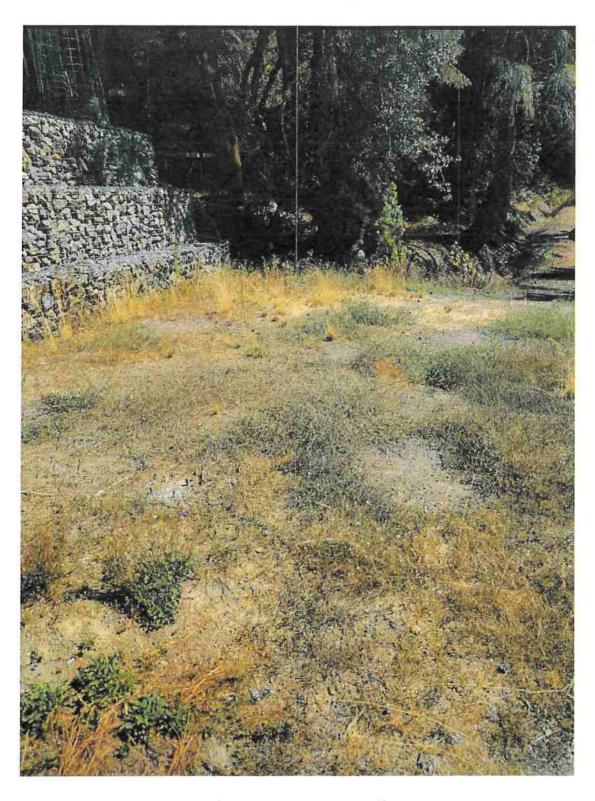


Photo 1: Retaining Wall

# **EXHIBIT D**

**Hydraulic and Drainage Report** 



#### Hydraulic and Drainage Report

KINSEY RIDGE FARM, ROUTE 1
APN: 315-045-004
PORTION OF SECTION 11 TOWNSHIP 4 NORTH, RANGE 4 EAST, H.M
WILLOW CREEK, CA 95573

Report Provided For:

Kristi Smith / Geoff Churchill 3030 Alliance Road Arcata CA 95521

Report Provided By:

Trinity Valley Consulting Engineers, Inc. 67 Walnut Way, PO Box 1567 Willow Creek, California 95573 (530) 629-3000 Fax: (530) 629-3011

July, 2019 Josh Mcknight, P.E. Project No: 1027



#### **Table of Contents:**

Drainage Conditions:	1
Conclusion:	
References:	2

#### List of Attachments:

ATTACHMENT 1: LOCATION MAP

ATTACHMENT 2: DRAINAGE AREA MAP
ATTACHMENT 3: DISCHARGE CALCULATIO

ATTACHMENT 3: DISCHARGE CALCULATIONS
ATTACHMENT 4: CULVERT SIZING MONOGRAM

Date:

July 16, 2019

Project Number: 1027

Owner:

Kristi Smith

Project Name: Hydraulics Report

Location:

Willow Creek, Route 1

APN: 315-045-004

#### **Drainage Conditions:**

The proposed project site is located approximately 14 miles south of the community of Willowcreek, California (see 40.739621 N, -123.693235 W attached location map). Latitude and Longitude of the project site are per Google Earth. The subject project is on the western side of the ridge at an approximate site elevation of 4,040 feet above mean sea level (see Attachment 2, Drainage Area Map). The stream flows east to west and is located on western part of the property. The highest point of the drainage is approximately 4,280 feet located at the middle of the property. From the highest point the drainage slopes downward toward the west to an elevation of approximately 4,040 feet. The drainage area is approximately 0.0075 square miles and has a length of approximately 700 feet. The average annual rainfall for the project area is 97.84 (2019, NACSE). Using the Linear Regression Equation for the North Coast Region gives the 100 year storm stream flow as 17.2 cubic feet per second (see Attachment 3, Discharge Calculations). Using the Culvert Sizing Monogram in conjunction with the 17.2 cubic feet per second gives a minimum culvert size of 28.8 inches for the 100 year storm (see Attachment 4, Culvert Sizing Monogram). A 30 inch culvert is suggested for the project due to size availability.

#### Conclusion:

The 100 year storm produces a 17.2 cubic feet per second flow that requires a minimum culvert size of 28.5 inches. A 30 inch culvert is suggested.



#### References:

National Oceanic and Atmospheric Administration: NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES CA, April 23, 2019 (accessed 4/23/2019): https://hdsc.nws.noaa.gov/hdsc/pfds/pfds\_map\_cont.html?bkmrk=ca

#### Google Earth

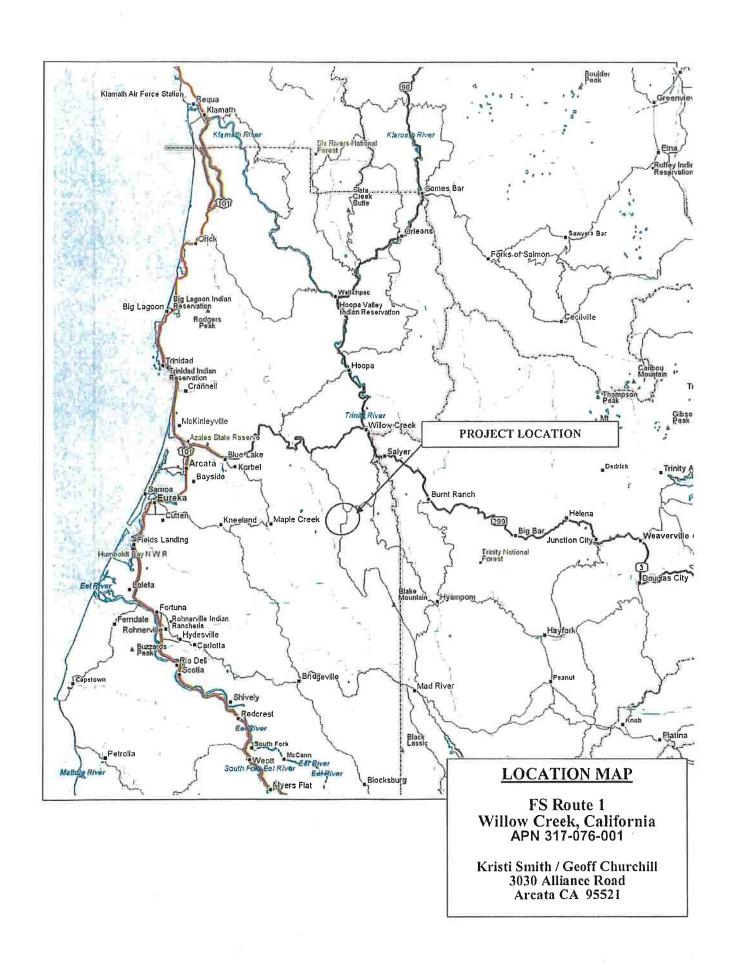
Northwest Alliance for Computational Science & Engineering (NACSE), Time Series Values for Individual Location, 2019 accessed 07/16/2019 http://www.prism.oregonstate.edu/explorer/



## **Attachment 1:**

Location Map

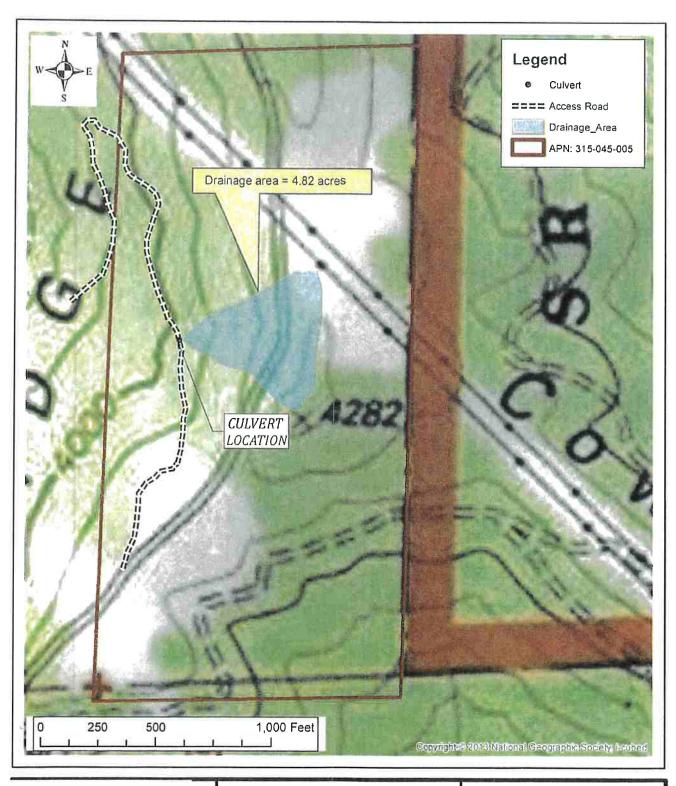




## Attachment 2:

Drainage Area Map







**DRAINAGE MAP APN: 315-045-005** 

ESRI USGS SEAMLESS TOPOGRAPHICAL MAP FOR HUMBOLDT COUNTY

Project: 1027 Kristi Smith Route 1, Humboldt

### **Attachment 3:**

**Drainage Area Calculations** 



# Determination of 100-Year Flood Flow

Location: 40.739621 N, -123.693235 W

Project: 1027 Kristi Smith Location: 40,7 (Enter data in fields with red-colored headings. Other data fields will be calculated automatically.)

-	The same of the sa	The posterior	The second			and delication and						
Mag	Magnitude and Frequency N		thod for 10	0-year floo	d flow (A	lethod for 100-year flood flow (A > 100 acres)		100	100-yr flood flow Q <sub>100</sub> (cfs)	ow Q 100 (c	fs)	13
			Basin			Avg. Annual	Elevation					Revised
		Area	maximum	Crossing	Area	Precipitation	Index	North		-unou	Central	using latest
		(acres)	elevation	elevation	(mi <sup>2</sup> )	(hy/yr)	(mean	Coast(1)	Sierra <sup>(2)</sup>	east <sup>(3)</sup>	Coast <sup>(4)</sup>	regression
No.	Crossing	A	(ft)*	(41)	٨	D.	basin	(NC)	(S)	(NE)	(00)	.pe
-	Culvert 1	4.82	4280	4040	0.008	97.84	4160	9.0	10.5	25.5	17.2	
2					0.000		0	0.0	#DIV/0!	0.0	0.0	
က					0.000		0	0.0	#DIV/0!	0.0	0.0	
4					0.000		0	0.0	#DIV/0!	0.0	0.0	ľ
လ					0.000		0	0.0	#DIV/0i	0.0	0.0	
9					0.000		0	0.0	#DIV/0!	0.0	0.0	
7					0.000		0	0.0	#DIV/0!	0.0	0.0	
ω					0.000		0	0.0	#DIV/0!	0.0	0.0	
თ					0.000		0	0.0	#DIV/0!	0.0	0.0	
10					0.000		0	0.0	#DIV/0!	0.0	0.0	
	To estimate discharges for bridges		ise elevations alor	ng watercourse at	85 percent and	use alevations along watercourse at 85 percent and 10 percent of water-course langth	course length	NC (1)	NC (1) Q <sub>100</sub> =48.5(A) <sup>0.866</sup> (P) <sup>0.556</sup>	(P) 0.866 (P) 0.5	989	
	noin cros	nom crossing to commen	divide, respective	ay, wistered or usin	יון וויפאווייים או	ge Gwile, respectively, asteau of using maximizin and clossing metalions	E	\$ (2)	<b>S</b> (2) $Q_{109} = 20.6$ (A) $^{0.674}$ (P) $^{1.24}$ (H) $^{-0.259}$	(A) 0.874 (P)	124 (H) -0.250	
								NE (3)	NE (3) Q100 = 0.713 (A) 0.728(P) 1.50	(A)0.728(P)	1,58	
								CC (4)	GC (4) Q100 = 11.0 (A) 0.84 (P) 0.994	(A) 0.84 (P)	984	

Rational Method for 100-year flood flow (A < 200 acres)

17		T <sub>c</sub> = 60(	$T_c = 60((11.9 \times L^3)/H)^{A}0.385$	1)^0.385		Q100 = CIA	SIA	
		Channel length (to	Elevation	Elevation Concentra-		100-year Return-Period		100-yr
		top of basin)	difference	tion time	Runoff	Precipitation	Area	flood flow
No.	Crossing	( <u>l</u> )	ە	(min) Tc	coefficient C	(in/hr)	(acres) A	(cfs) Q100
-	Culvert 1	0.1325758	240	10	0.5	4.506	4.82	10.9
2	0		0	#DIV/0i			0	0.0
3	0		0	10/AIG#			0	0.0
4	0		0	#DIN/0i			0	0.0
5	0		0	#DIV/0i			0	0.0
9	0		0	#DIV/0i			0	0.0
7	0		0	#DIV/0i			0	0.0
8	0		0	#DIV/0i			0	0.0
თ	0		0	#DIV/0i			0	0.0
10	0		0	#DIV/0i			0	0.0

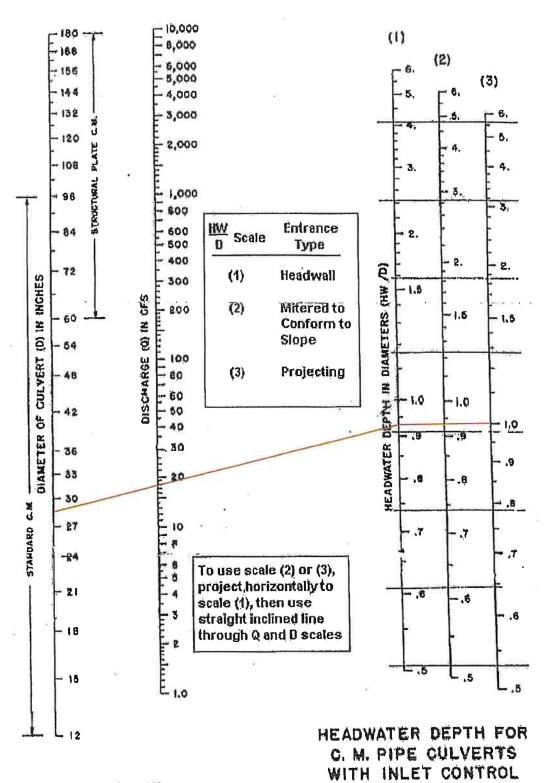
"Use 100-yr precipitation of duration similar to Te or for 10 min, whichever is larger, convert to infinite input as "I"

Page 1 of 1

## Attachment 4:

## **Culver Sizing Monogram**





# **EXHIBIT E**

**Hydraulic and Drainage Report**