

**SUMMARY OF ANALYSIS (SAMPLE ID: SA39999)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11407 <b>Lot Number:</b> M00065C13133392399 <b>Production Run:</b> 7084H20241209FWT-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 23g <b>Date Collected:</b> 01/24/2025 <b>Date Received:</b> 01/27/2025
<b>Cultivar (Strain) or Sample Description:</b> Fresh Water Taffy			<b>Date Completed:</b> 01/29/2025

\*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

**Moisture Content (%)**

10.4

**Water Activity (aw)**

0.360 @ 24.4°C

**PASS/FAIL**

**PASS**

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	24.3	243
Δ9-THC	1.34	13.4
CBGA	0.921	9.21
TOTAL CBD	0.000	0.000
TOTAL THC	22.7	227
TOTAL CANNABINOIDS	26.7	267

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	1.43	14300
β-Myrcene	0.743	7430
Linalool	0.491	4910
β-Caryophyllene	0.455	4550
β-Pinene	0.235	2350
TOTAL TERPENES	4.04	40400

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Pesticides:	<b>PASS</b>

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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**REPORT OF LABORATORY ANALYSIS**

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**CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)**

**Analysis Date/Time:** 01/28/2025 1317      **Method:** HPLC/DAD      **Moisture Content (%):** 10.4  
**Analyst:** PW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.360 @ 24.4°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.0382	0.0890	-	0.000	0.000
CBCA	ND	ND	0.118	0.276	-	0.000	0.000
CBD	ND	ND	0.269	0.628	-	0.000	0.000
CBDA	ND	ND	0.0991	0.231	-	0.000	0.000
CBDV	ND	ND	0.0432	0.101	-	0.000	0.000
CBDVA	ND	ND	0.115	0.269	-	0.000	0.000
CBG	ND	ND	0.175	0.408	-	0.000	0.000
CBGA	0.921	9.21	0.248	0.292	-	8.25	8.25
CBL	ND	ND	0.202	0.471	-	0.000	0.000
CBN	ND	ND	0.0927	0.217	-	0.000	0.000
CBNA	ND	ND	0.100	0.233	-	0.000	0.000
CBT	ND	ND	0.145	0.339	-	0.000	0.000
Δ9-THC	1.34	13.4	0.111	0.259	-	12.0	12.0
Δ8-THC	ND	ND	0.173	0.405	-	0.000	0.000
THCA	24.3	243	0.0602	0.141	-	218	218
THCV	ND	ND	0.145	0.337	-	0.000	0.000
THCVA	0.102	1.02	0.0462	0.107	-	0.916	0.916
<b>TOTAL</b>	<b>26.7</b>	<b>267</b>			-	<b>239</b>	<b>239</b>
<b>TOTAL CBC</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBD</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBDV</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBG</b>	<b>0.808</b>	<b>8.08</b>			-	<b>7.24</b>	<b>7.24</b>
<b>TOTAL CBN</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL THC</b>	<b>22.7</b>	<b>227</b>			-	<b>203</b>	<b>203</b>
<b>TOTAL THCV</b>	<b>0.0886</b>	<b>0.886</b>			-	<b>0.794</b>	<b>0.794</b>



**SERVING MASS (g):** 1.00  
**SERVINGS/UNIT:** 1

"-" Not reported for this sample.

*Deviations from standard operating procedure:*  
None

*Recoveries for all analyte standards:* 90-110%  
*Replicate Uncertainties:* <5% RSD, <20% RPD  
*Sample/Reagent Blanks:* <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC  
 Total CBD = (CBDA x 0.877) + CBD  
 Total CBDV = (CBDVA x 0.867) + CBDV  
 Total CBG = (CBGA x 0.878) + CBG  
 Total CBN = (CBNA x 0.876) + CBN  
 Total THC = (THCA x 0.877) + Δ9-THC  
 Total THCv = (THCVA x 0.867) + THCv

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

*Abbreviations:* DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, ND - Not Detected (less than LOD)

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**TERPENOID PROFILE**

**Analysis Date/Time:** 01/28/2025 1832  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	171	0.0171	
Camphene	493	0.0493	
δ-3-Carene	145	0.0145	
β-Caryophyllene	4550	0.455	█
Caryophyllene oxide	ND	-	
p-Cymene	140	0.0140	
Eucalyptol	ND	-	
Geraniol	466	0.0466	
Guaiol	ND	-	
α-Humulene	1650	0.165	█
Isopulegol	199	0.0199	
d-Limonene	14300	1.43	█
Linalool	4910	0.491	█
β-Myrcene	7430	0.743	█
cis-Nerolidol	ND	-	
trans-Nerolidol	274	0.0274	
α-Ocimene	218	0.0218	
β-Ocimene	1120	0.112	█
α-Pinene	1560	0.156	█
β-Pinene	2350	0.235	█
α-Terpinene	152	0.0152	
γ-Terpinene	79.5	0.00795	
Terpinolene	186	0.0186	
<b>TOTAL</b>	<b>40400</b>	<b>4.04</b>	



*Abbreviations:* GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit  
*Abbreviations:* ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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**Reporting Limit (µg/g): 41.8**

"-" Not detected above LOD.

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Kyle W. Felling, Ph.D.  
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**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 01/28/2025 1750      **Method:** LC/MS/MS      **Deviations from SOP:** None  
**Analyst:** KF      **Instrument:** Shimadzu LC-8050

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0416	0.333	0.5	Kresoxim-methyl (143390-89-0)	-	0.0416	0.333	0.4
Acephate (30560-19-1)	-	0.0416	0.333	0.4	Malathion (121-75-5)	-	0.0416	0.333	0.2
Acetamiprid (135410-20-7)	-	0.0416	0.333	0.2	Metalaxyl (57837-19-1)	-	0.0416	0.333	0.2
Aldicarb (116-06-3)	-	0.0416	0.333	0.4	Methiocarb (2032-65-7)	-	0.0416	0.333	0.2
Azoxystrobin (131860-33-8)	-	0.0416	0.333	0.2	Methomyl (16752-77-5)	-	0.0416	0.333	0.4
Bifenazate (149877-41-8)	-	0.0416	0.333	0.2	Methyl parathion (298-0-0)	-	0.0416	0.333	0.2
Bifenthrin (82657-04-3)	-	0.0416	0.333	0.2	MGK 264 (113-48-4)	-	0.0416	0.333	0.2
Boscalid (188425-85-6)	-	0.0416	0.333	0.4	Myclobutanil (88671-89-0)	-	0.0416	0.333	0.2
Carbaryl (63-25-2)	-	0.0416	0.333	0.2	Naled (300-76-5)	-	0.0416	0.333	0.5
Carbofuran (1563-66-2)	-	0.0416	0.333	0.2	Oxamyl (23135-22-0)	-	0.0416	0.333	1
Chlorantraniliprole (800008-45-7)	-	0.0416	0.333	0.2	Pacllobutrazol (76738-62-0)	-	0.0416	0.333	0.4
Chlorfenapyr (122453-73-0)	-	0.0416	0.333	1	Permethrins (52645-53-1)	-	0.0416	0.333	0.2
Chlorpyrifos (2921-88-2)	-	0.0416	0.333	0.2	Phosmet (732-11-6)	-	0.0416	0.333	0.2
Clofentezine (74115-24-5)	-	0.0416	0.333	0.2	Piperonyl butoxide (51-03-6)	-	0.0416	0.333	2
Cyfluthrin (68359-37-5)	-	0.0416	0.333	1	Prallethrins (2331-36-9)	-	0.0416	0.333	0.2
Cypermethrin (52315-07-8)	-	0.0416	0.333	1	Propiconazole (60207-90-1)	-	0.0416	0.333	0.4
Daminozide (1596-84-5)	-	0.0416	0.333	1	Propoxur (114-26-1)	-	0.0416	0.333	0.2
DDVP (62-73-7)	-	0.0416	0.333	0.1	Pyrethrins (8003-34-7)	-	0.0416	0.333	1
Diazinon (333-41-5)	-	0.0416	0.333	0.2	Pyridaben (96489-71-3)	-	0.0416	0.333	0.2
Dimethoate (60-51-5)	-	0.0416	0.333	0.2	Spinosad (168316-95-8)	-	0.0416	0.333	0.2
Ethoprophos (13194-48-4)	-	0.0416	0.333	0.2	Spiromesifen (283594-90-1)	-	0.0416	0.333	0.2
Etofenprox (80844-07-1)	-	0.0416	0.333	0.4	Spirotetramat (203313-25-1)	-	0.0416	0.333	0.2
Etoxazole (153233-91-1)	-	0.0416	0.333	0.2	Spiroxamine (118134-30-8)	-	0.0416	0.333	0.4
Fenoxycarb (72490-01-8)	-	0.0416	0.333	0.2	Tebuconazole (80443-41-0)	-	0.0416	0.333	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0416	0.333	0.4	Thiacloprid (111988-49-9)	-	0.0416	0.333	0.2
Fipronil (120068-37-3)	-	0.0416	0.333	0.4	Thiamethoxam (153719-23-4)	-	0.0416	0.333	0.2
Fonicamid (158062-67-0)	-	0.0416	0.333	1	Trifloxystrobin (141517-21-7)	-	0.0416	0.333	0.2
Fludioxinil (131341-86-1)	-	0.0416	0.333	0.4					
Hexythiazox (78587-05-0)	-	0.0416	0.333	1					
Imazalil (35554-44-0)	-	0.0416	0.333	0.2					
Imidacloprid (138261-41-3)	-	0.0416	0.333	0.4					



**Color Key**

**RESULT < AL** (Green bar)

**RESULT > AL** (Red bar)

"DET" detected less than LOQ

"-" not detected above LOD

Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.

Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.

Action levels are referenced from the State of Arkansas MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)**

<b>Analysis Date/Time:</b> 01/28/2025 1819	<b>Method:</b> ICP/MS <b>Instrument:</b> Agilent 7500ce	<b>Deviations from SOP:</b> None
<b>Analyst:</b> KF		

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	59.4	94.0	200
Cadmium (Cd)	-	59.4	94.0	200
Lead (Pb)	-	59.4	94.0	500
Mercury (Hg)	-	59.4	94.0	100



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

**Color Key**

RESULT < AL
RESULT > AL

"DET" detected less than LOQ  
"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 01/28/2025 1147      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	-
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-



*Abbreviations:* EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested  
 Absent - Not Detected Above RL, Present - Detected Above RL

**Color Key**

**RESULT < AL**

**RESULT > AL**

**Reporting Limit (CFU/g)**  
1

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