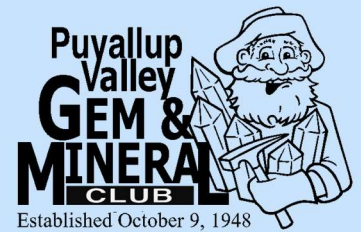


# ROCK-A-TEER



## Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue 41

Volume 94

June

2021

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We are open back to Phase III so we can start having our general meetings. Hopefully we will not have any more setbacks and we can start moving forward again. Thank you all for being so patient with the back and forth of being on again then off again.

We had the first club auction in a very long time and the results were outstanding. We had over 40 bidders in attendance. Unfortunately, not everyone was able to go home with every piece that they wanted, but it seemed like everyone had fun. We were able to raise the annual amount of scholarship donations and we have another auction in October to plan for.

Tailgate coming up as program night for June...get ready to buy, sell and trade!!!!

**The club is now communicating mostly by email, given that we are flipping between Phases and meeting requirements. If you have not already, please check your email for information, and update the membership director if you have had a change or added a new email address.**

# Field Trip Report

## **June 19 – Wild Turkey Mine**

Meeting place – at the mine location – contact Dennis Batchelor [hobbyhorse51@gmail.com](mailto:hobbyhorse51@gmail.com)

Hunting for – Washington Serpentine

Tools you need - Rock hammer, shovel, pry bar, hammer, chisel and a backpack/bucket for your treasures

Access - this area is fairly easy to access

Additional items - lunch/snacks and water, water, water. Dress in layers.

## **July 17 - Red Top**

Meeting place - 10:00AM at Mineral Springs Recreational mile marker 156 on hwy 97

Hunting for - Agate, Jasper, Fossil Shells and Crystal Plates

Tools you need - Rock hammer, shovel, pry bar, hammer, chisel and a backpack/bucket for your treasures

Access - Moderate climb up a steep road cut.

Additional items - lunch/snacks and water, water, water. Dress in layers. Be prepared for ticks/mosquitoes

Please remember that even though we love to meet new people, fieldtrips are a member benefit and part of your membership dues covers you for injury liability. Though injuries are rare, and we do everything we can to avoid them, we are going out into nature, and uncontrollable environment.

All individuals attending field trips will have to sign a release of liability, and if you are bringing guests, we will try to entice them into join the club by having Membership applications available.

## JUNE 2021 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	LaVan Siperek
2	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
3	Thursday		<b>Club Show - Clubhouse Closed</b>		
4	Friday		<b>Club Show - Clubhouse Closed</b>		
5	Saturday		<b>Club Show - Clubhouse Closed</b>		
6	Sunday		<b>Club Show - Clubhouse Closed</b>		
7	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
8	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	LaVan Siperek
		7:00PM	Club Board Meeting	Fruitland Grange	Jim Christian
9	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
10	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
11	Friday	7:30PM	Club Business Meeting	Fruitland Grange	Tony Johnson
12	Saturday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
13	Sunday				
14	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
		7:00PM-8:00PM	Opal Club Business Meeting	Club House	Tony Johnson
15	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	LaVan Siperek
16	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
17	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
18	Friday				
19	Saturday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
		10:00AM-2:00PM	Wild Turkey Mine	Field Trip	Dennis Batchelor
20	Sunday				
21	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
22	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	LaVan Siperek
23	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
24	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
25	Friday	7:30PM	<b>Tailgate in Parking lot</b>	Fruitland Grange	Tony Johnson
26	Saturday	10:00AM-2:00PM	Flint Knapping	Club House	Craig Oda
27	Sunday				
28	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
29	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	LaVan Siperek
30	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Weaving	Club House	Jillian Higgins

**For questions about a specific class or event, contact the instructor**

Jim Christian (253) 720-9502	Ed Knoll (253) 651-7453	Dennis Batchelor (360) 870-8741
Tony Johnson (253) 863-9238	Bill Clark (360) 893-6919	Dave Sanderson (253) 380-8273
Renner Barnes rsb1224@netscape.com	Jillian Higgins (253)355-3146	Glen Ripper (253) 508-7545

**As of the publication of this schedule Pierce County is still in Phase 2 and is open on an appointment basis only. As soon as we enter into Phase 3 the club house will be allowed to open with limited conditions.**

## **Our annual June club show is here.**

**Jim Christian**

Friday 10AM - 6PM Saturday, 10AM - 6PM, Sunday, 10AM - 5PM, June 4<sup>th</sup>, 5<sup>th</sup>, & 6<sup>th</sup> the PVG&MC presents its 19<sup>th</sup> annual Valley of Gems show at Swiss Park in Bonney Lake.

Covid forced us to make some changes this year so everything is outside the main building and there are some other changes as well. Food service is not available, there are no member display cases, no junior mine activities, and there are only a couple demonstrations outside. The good news is that we have over 35 vendors participating.

*Also, here is an opportunity you don't want to miss:*

Do you have Ellensburg Blue questions? On Saturday, June 5<sup>th</sup>, from 10AM to 3PM Carl Carlson our local Ellensburg Blue expert will be at the PVG&MC show welcome desk to answer your Ellensburg Blue questions. And along with his samples of Ellensburg Blue for show & tell, he'll have a selection of materials from his family mine in Ellensburg for sale.

Don't forget our August Gem Show in The Trees, August 13<sup>th</sup>, 14<sup>th</sup>, & 15<sup>th</sup>, at The Tacoma Sportsmen's Club on Canyon Road in Puyallup. More on that show next month.

## **Clubhouse report**

**Tony Johnson**

We are still taking reservations at the club house even though we are opened up to Phase III because it has been really helpful for the instructors to know who is coming. Make sure you email Jillian Higgins at [J.Y.Higgins@gmail.com](mailto:J.Y.Higgins@gmail.com) if you are intending on coming down to the club house. She will send you a confirmation letter and will pass it on to the instructors that you are coming down.

## **Club House Rules**

When the clubhouse reopens it will be on a trial basis with specific requirements and conditions which are subject to change and because this is a trial, the clubhouse may again close until future notice.

Requirements and conditions:

- Members must already be qualified to use clubhouse equipment.
- Workshops & classes are limited to 4 members plus the instructor.
- Reservations must be made by using the reservation process.
- Each member is limited to one workshop or class per week.
- Each member must follow the usual sign in and payment process AND sign a Release of Liability and Hold Harmless Agreement EACH TIME the member comes to a workshop or class.
- Face coverings and social distancing are required.
- One person at a time in the saw room(s).

Other than making reservations, all comments, concerns, etc. are to be directed to Tony John, phone (253) 863-9238 or email at [ynotopals@outlook.net](mailto:ynotopals@outlook.net)

# Fool's Gold

Don't be fooled: These quick tests separate pyrite from real gold.

Article by: [Hobart M. King](#), PhD, RPG

**Pyrite with Striations:** A cluster of cubic pyrite crystals exhibiting prominent striations. Photo copyright iStockphoto / Johanna Poetsch.



## What Is Fool's Gold?

"Fool's gold" is a common nickname for [pyrite](#). Pyrite received that nickname because it is worth virtually nothing, but has an appearance that "fools" people into believing that it is [gold](#). With a little practice, there are many easy tests that anyone can use to quickly tell the difference between pyrite and gold.

The nickname "fool's gold" has long been used by gold buyers and prospectors, who were amused by excited people who thought they had found gold. These people did not know how to tell the difference between pyrite and gold, and their ignorance caused them to look foolish.



**Crystalline Gold:** A specimen of native gold from Pontes e Lacerda, Mato Grosso, Brazil, approximately 3.5 centimeters tall. This specimen is visually appealing and displays the crystalline habit of gold. The value of this specimen to collectors of crystalline gold would be many times the value of its contained gold. Destructive tests should not be done on specimens of gold that display a crystalline habit or specimens of no trivial size that have an attractive appearance. This photo was taken by Carlin Green of the United States Geological Survey.

## Separating Fool's Gold from Gold

Here are a few simple tests that almost anyone can use to tell the difference between pyrite and gold. They can usually be done successfully by inexperienced people. However, wise people obtain a couple small pieces of pyrite and a couple small pieces of gold and use them to gain valuable

experience.



CAUTION: All pieces of gold are valuable. However, any piece of gold with a nice **crystal habit** will have a premium value - often worth several times the value of its contained gold. That premium value can be ruined by some of the tests explained below. So, we have separated the tests into "destructive tests" and "non-destructive tests". Be careful if you think that you might have a valuable gold specimen.



**Testing Specific Gravity:** Specific Gravity is the ratio between the weight of a material in air and the weight of an equal volume of water. The device in the photo above is a scale that is used to weigh the material in air, and a weighing pan that enables the material to be weighed under water. The weight under water can be subtracted from the weight in air to obtain the weight of the volume of water displaced by the material. Specific gravity is then calculated by the formula:  $W_a / (W_a - W_u)$  where  $W_a$  is the weight of the material in air and  $W_u$  is the weight of the material under water.

## Non-Destructive Tests

A) **Tarnish:** Most specimens of pyrite, found in nature, will have at least some tarnish on their surface. Nuggets or small flakes of gold are usually bright and untarnished.

B) **Color:** Pyrite has a brassy color. Gold has a golden to yellow color. Most native gold is alloyed with **silver**, and if the silver content is high enough, the specimen will have a whitish yellow color.

C) **Shape:** Pyrite is usually found as angular pieces, and many of them exhibit the faces of a cube, octahedron or pyritohedron. Most gold particles found in streams have slightly rounded edges, but be careful - some crystalline gold specimens can display a crystal habit that is similar to pyrite.

D) **Striations:** Many crystals of pyrite have fine parallel lines on their faces. Gold crystals do not have striations.

E) **Specific Gravity:** Gold has a specific gravity of about 19.3. The specific gravity of pyrite is about 5. (All gold found in nature is always alloyed with other **metals**. These metals have a specific gravity which will reduce the specific gravity of the specimen, but never enough that it approaches the specific gravity of pyrite. Specimens containing a significant amount of gold will always have at least two to three times the specific gravity of pyrite.)



**Gold's Streak:** A copper penny and a tiny gold nugget on a black streak plate, with a small streak made by the nugget. The copper penny is in the photo to serve as a scale. The tiny nugget weighs 0.0035 troy ounce, and at a gold price of \$1200/ozt the nugget, if it were pure gold, would have a gold value of \$4.20. The tiny mark left by the streak plate removed about \$0.06 worth of gold from the nugget.

## Destructive Tests

A) **Streak:** Gold has a yellow streak. Pyrite has a greenish black streak. Learn how to do the streak test [here](#).

B) **Hardness:** Gold has a Mohs hardness of 2.5, while pyrite has a Mohs hardness of 6 to 6.5. Gold will not scratch a [copper](#) surface (Mohs hardness of 3), but pyrite will easily scratch copper. Gold can be scratched by a sharp piece of copper, but copper will scratch very few other materials. Learn about the Mohs hardness test [here](#).

C) **Ductility:** Gold is very ductile, and a tiny piece of gold will bend or dent with pressure from a pin or a pointed piece of wood. Tiny pieces of pyrite will break or resist the pressure.

D) **Sectility:** Small particles of gold can be cut with a sharp pocket knife. Small particles of pyrite cannot be cut.



**Chalcopyrite in Dolomite and Quartz:** Gold-colored minerals can be tested even if they are embedded in a rock. The gold-colored mineral in this rock is chalcopyrite, and a person could determine that it is not gold by poking the gold-colored material with a pin and observing if it dents or breaks. This photograph is by Scott Horvath of the United States Geological Survey. [Click to enlarge.](#)

## Other Minerals That Can Fool You!

[Chalcopyrite](#) and small pieces of [biotite](#) mica can fool you. Chalcopyrite (a copper iron sulfide) has

very similar properties to pyrite. It has a lower hardness than pyrite (3.5 to 4) and a lower specific gravity than pyrite (4.1 to 4.3), but the same tests can separate chalcopyrite from gold. Chalcopyrite also has a greenish black streak.

[Pyrrhotite](#) is an iron sulfide mineral with a chemical composition of  $\text{Fe}_{(x-1)}\text{S}$ . It has a high specific gravity, often has a brassy color, and a distinctly metallic luster. It is easy to separate pyrite and pyrrhotite because pyrrhotite is magnetic, is much softer, and if you can see crystals they will be a very different shape.

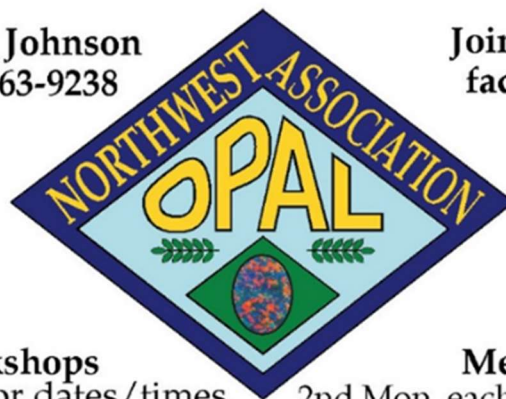
Many people are surprised that biotite mica can fool people into thinking that it is gold. This most often occurs when an inexperienced person is [panning for gold](#) and sees a bright flash in their [gold pan](#). After chasing the tiny, highly lustrous flake, they think that it might be gold. However, slight pressure with a pin can break the flake of mica, but a tiny flake of gold will bend around the pin.

## COMMUNITY SUPPORTERS

	<p style="text-align: center;"><b>South Hill RV Sales</b></p> <p style="text-align: center;">Offering the highest rated starter, midline, and high end towables and RV's at the lowest prices which has made us a top volume dealer in Washington state.</p> <p style="text-align: center;">12414 Meridian East, Puyallup 98373 253-435-7751 or 866-435-7751 <a href="http://www.southhillrv.com">www.southhillrv.com</a></p>
	<p style="text-align: center;"><b>Rice Museum of Rocks &amp; Minerals</b></p> <p style="text-align: center;">To engage, inspire, and educate generations on the splendor and complexity of our Earth.</p> <p style="text-align: center;">26385 NW Groveland Dr., Hillsboro, OR 97124 503-647-2418 <a href="mailto:Info@ricenorthwestmuseum.org">Info@ricenorthwestmuseum.org</a> <a href="http://www.ricenorthwestmuseum.org">www.ricenorthwestmuseum.org</a></p>
<p style="text-align: center;">H &amp; I Lapidary</p>	<p style="text-align: center;">Amber, Jewelry, Beads, Findings, Gemstones, Slabs, Rough Material, Fossils, and Aussie items.</p> <p style="text-align: center;">Mike and LaVon Siperek (253) 531-7294 4203 E 99<sup>th</sup> Street, Tacoma, WA 98446 <a href="mailto:Yankees_Diesel@comcast.net">Yankees_Diesel@comcast.net</a></p>

**Tony Johnson**  
253-863-9238

**Join us on  
facebook**



**Workshops**  
call for dates/times

**Meetings**  
2nd Mon. each month



## FROM THE BENCH

Do you have a hard time storing your cabs? I have found a couple of ideas that help me, some you may have already tried, and some that might be helpful to you.

1) Tackle boxes are amazing for storing cabs and other findings, metals, etc. With the lid closed, nothing can get in or out (if you are clumsy like me, this is a real plus as things are not likely to shift when I knock them on the ground). They come in all kinds of sizes from little to big so can help organize items from small to large. Easy to travel with as well.

2) Amazon has Coin Pocket Pages, clear sleeves for holding coins, but they are perfect for cabochons. They come in different sizes, and I have used both the 12 pocket and the 20 pocket. They have closures that help keep the cabs secure and because they are clear, you can see the front and back of the cabs, plus any notes you put in with the cabs, like size, type, etc. The link is here:

[https://www.amazon.com/gp/product/B07V9L5WVD/ref=ppx\\_yo\\_dt\\_b\\_asin\\_title\\_o07\\_s00?ie=UTF8&psc=1](https://www.amazon.com/gp/product/B07V9L5WVD/ref=ppx_yo_dt_b_asin_title_o07_s00?ie=UTF8&psc=1)

## SUNSHINE REPORT

With everything going on, we have not had a chance to meet as a group and bring to each other's attention members who need healing thoughts or prayer sent their way.

Jann Bartlemay was hospitalized for a heart attack and pneumonia. If you know of anyone else who needs to be recognized in next month's Sunshine Report, please email or call either

Tony Johnson at [ynotopals@outlook.com](mailto:ynotopals@outlook.com) (253) 863-9238 or  
Jillian Higgins at [J.Y.Higgins@gmail.com](mailto:J.Y.Higgins@gmail.com) (253) 355-3146

## Field Trip Recap

**Tony Johnson**

We had 11 vehicles and about 16 people who attended the field trip to Greenwater. We had quite the adventure, having to deal with some unexpected snow. We were able to rescue the car from the snow, but were unable to get to Government Meadows. This was fine as we went to both the red and blue jasper sights and members were able to find excellent pieces of each.

## 2021 SHOW & TELL THEMES and PROGRAM NIGHT EVENTS

MEETING	DATE	SHOW & TELL THEME	PROGRAM NIGHT EVENT
January - 1st Meeting	January 8, 2021	Tiger's Eye or any field trip finds	
January - 2nd Meeting	January 22, 2021	Lace or any field trip finds	No Meeting
February - 1st Meeting	February 12, 2021	Heart shaped or any field trip finds	
February - 2nd Meeting	February 26, 2021	Red, Pink, & Purple or any field trip finds	No Meeting
March - 1st Meeting	March 12, 2021	"Sham" rocks or any field trip finds	
March - 2nd Meeting	March 26, 2021	Green or any field trip finds	Carl Carlson
April - 1st Meeting	April 9, 2021	April Fools Gold or any field trip finds	
April - 2nd Meeting	April 23, 2021	<b>No Show &amp; Tell</b>	No Meeting
May - 1st Meeting	May 14, 2021	Flower rocks or any field trip finds	
May - 2nd Meeting	May 28, 2021	<b>No Show &amp; Tell</b>	Auction/Potluck
June - 1st Meeting	June 11, 2021	Fancy Slabs & Fossils + any field trip finds	
June - 2nd Meeting	June 25, 2021	<b>No Show &amp; Tell</b>	Tailgate Party @ Grange Parking Lot
July - 1st Meeting	July 9, 2021	Red, White, & Blue or any field trip finds	
July - 2nd Meeting	July 23, 2021	<b>No Show &amp; Tell</b>	To Be Announced
August - 1st Meeting	August 13, 2021	Carnelians + any field trip finds	
August - 2nd Meeting	Saturday August 28, 2021	<b>No Show &amp; Tell</b>	Picnic & Tailgate Party at club house on Saturday
September - 1st Meeting	September 10, 2021	Crystals + any field trip finds	
September - 2nd Meeting	September 24, 2021	<b>No Show &amp; Tell</b>	Mini Lapidary Demonstrations
October - 1st Meeting	October 8, 2021	Wood + any field trip finds	
October - 2nd Meeting	October 22, 2021	<b>No Show &amp; Tell</b>	Auction/Potluck
November - 1st Meeting	November 12, 2021	Thundereggs & Geodes + any field trip finds	
November - 2nd Meeting	November 26, 2021	<b>No Show &amp; Tell</b>	BINGO Night
December - 1st Meeting	Saturday December 11, 2021	<b>No Show &amp; Tell</b>	Holiday Banquet/Officer Installation on Saturday
December - 2nd Meeting	No Meeting	<b>No Show &amp; Tell</b>	

## 2021 Elected Officers

Title	Name	Phone	Email
President:	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Vice President:	Jim Christian	(253)720-9502	Jimchristian_205@hotmail.com
Secretary:	Teresa Rodrick	(253)531-4062	gtrodi@comcast.net
Treasurer:	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Association Director:	Faith Preston	(360)440-8309	faithyjade@gmail.com
1 Year Director:	Glen Ripper	(253)508-7545	glen311944@yahoo.com
2 Year Director:	Patti Dailey-Shives	(253)678-0029	pattidailey28@gmail.com
1 Year Trustee:	Glenn Rodrick	(253)531-4062	gtrodi@comcast.net
2 Year Trustee:	Dennis Batchelor	(360)870-8741	hobbyhorse51@gmail.com

## 2021 Committee Chairs

Title	Name	Phone	Email
Club house Coordinator	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Club Show Coordinator	Jim Christian	(253)720-9502	Jimchristian_205@hotmail.com
Field Trips Coordinator	Dennis Batchelor	(360)870-8741	hobbyhorse51@gmail.com
Web Master	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Editor/Communications	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Membership	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Sunshine	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Newsletter	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Mineral Council	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Historian			



**WASHINGTON STATE MINERAL COUNCIL**

The Puyallup Valley Gem & Mineral Club is a member of the American Lands Access Association and the Washington State Mineral Council. You can find more information about the ALAA at: [amlands.org](http://amlands.org) or the WA Mineral Council at: [mineralcouncil@zoho.com](mailto:mineralcouncil@zoho.com)

# HAPPY BIRTHDAY

## June 2021

Susie Diedrich - 1<sup>st</sup>  
 Benjamin Small - 2<sup>nd</sup>  
 Debra Olson - 4<sup>th</sup>  
 Tisha Coats - 6<sup>th</sup>  
 Jennifer Barnstein - 9<sup>th</sup>  
 Gregory Dussault - 9<sup>th</sup>  
 Judy Rainey-Bellow - 12<sup>th</sup>  
 Julie Price - 12<sup>th</sup>  
 Carol Wallace - 13<sup>th</sup>  
 Kellie Ivy - 17<sup>th</sup>  
 Roger Forsythe - 21<sup>st</sup>  
 Becky Patterson - 21<sup>st</sup>  
 Sophia Hunter - 25<sup>th</sup>  
 Kerry Nicholls - 26<sup>th</sup>  
 Jason Thornblad - 28<sup>th</sup>  
 Glenn Rodrick - 28<sup>th</sup>  
 Elsa Nethercot - 29<sup>th</sup>

### A ROCKHOUNDER'S MUST HAVE

F N E E R C S N U S D G L I S I T  
 H O B T I H L M I H A N D C A R T  
 H T N W P I C C F O G P E B O R P  
 S E O F B S T K U U P F H W D J W  
 T B X L E E I S A L S G E I E T D  
 I O M A L L E T Q D D L N Z V I M  
 K O E S N W I J M E E O P I C K E  
 C K T H I X S L I R V V B U M D F  
 A H G L P O P T E B I E T S B I I  
 P A C I Y E A M I A C S U P E A N  
 K F U G W I M F S G E I G O F T K  
 C Y T H Q A O H E W E S D L U S T  
 A I Z T H P A B I Z R N I O R R E  
 B U C K E T K T O I E M N E O I K  
 T A C L O T H I N G T W D C D F C  
 B O O T S H O V E L A A I J H I O  
 R E P E L L A N T O W E L S O A P

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| 1. BACKPACK     | 11. GPS DEVICE  | 21. ROCKHAMMER  |
| 2. BOOTS        | 12. HANDCART    | 22. SHOULDERBAG |
| 3. BUCKET       | 13. HAT         | 23. SHOVEL      |
| 4. CHISEL       | 14. MALLET      | 24. SOAP        |
| 5. CLOTHING     | 15. MAPS        | 25. SUNSCREEN   |
| 6. FIRSTAID KIT | 16. NOTEBOOK    | 26. TENT        |
| 7. FLASHLIGHT   | 17. PICK        | 27. TOWELS      |
| 8. FOOD         | 18. POCKETKNIFE | 28. TROWEL      |
| 9. GAD          | 19. PROBE       | 29. WADERS      |
| 10. GLOVES      | 20. REPELLANT   | 30. WATER       |





# ROCK-A-TEER

Newsletter of Puyallup Valley

Gem & Mineral Club

P.O. Box 134

Puyallup, WA 98371