



### Garfield County

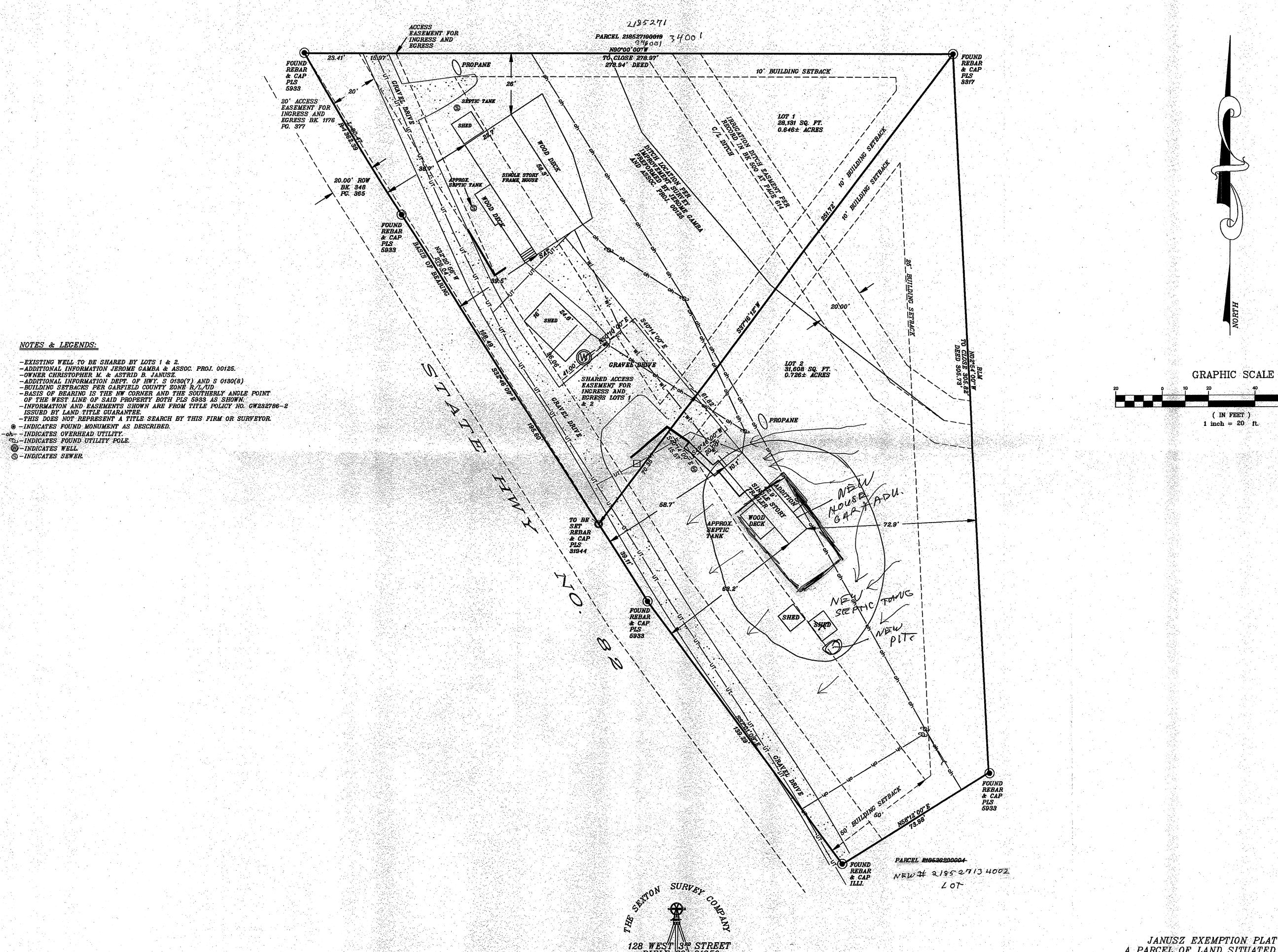
Community Development Department 108 8<sup>th</sup> Street, Suite 401 Glenwood Springs, CO 81601 (970) 945-8212 www.garfield-county.com

## LAND USE CHANGE PERMIT APPLICATION FORM

TYPE OF APPLICATION	
Administrative Review	☐ Development in 100-Year Floodplain
Limited Impact Review	☐ Development in 100-Year Floodplain Variance
☐ Major Impact Review	☐ Code Text Amendment
☐ Amendments to an Approved LUCP	Rezoning
☐ LIR ☐ MIR ☐ SUP	☐ Zone District ☐ PUD ☐ PUD Amendment
☐ Minor Temporary Housing Facility	☐ Administrative Interpretation
☐ Vacation of a County Road/Public ROW	☐ Appeal of Administrative Interpretation
☐ Location and Extent Review	☐ Areas and Activities of State Interest
☐ Comprehensive Plan Amendment	☐ Accommodation Pursuant to Fair Housing Act
☐ Pipeline Development	☐ Variance
☐ Time Extension (also check type of original applications)	oplication)
INVOLVED PARTIES	
Owner/Applicant	
Name: CHRIS JANUSZ	Phone: (970) 948-2011
Mailing Address: 3644 HWY 82	
City: 6LENWOOD SPRINES	State: $\cancel{CO}$ Zip Code: $\cancel{5}$ / $\cancel{6}$ $\cancel{O}$ /
E-mail: CM JANUSZ 123 @ GMA	
Representative (Authorization Required)	
Name: ERIC STANUSZ	Phone: (920) 948-4452
Mailing Address: 3644 HWY 82	
City: CLENWOOD SRINGS	State: <u></u>
E-mail:	
PROJECT NAME AND LOCATION	
Project Name:	
Janusz ADU	
Assessor's Parcel Number:	
Physical/Street Address:	
Legal Description:	<u> </u>
Zone District: KU	Property Size (acres):73

PROJECT DESCRIPTION	
Existing Use:	
SINCLE FAMILY MORIL HOME SIN	CE 1964
Proposed Use (From Use Table 3-403): _S/W6L& FA	
Description of Project: TRAILEL DE MODED 5-	7-18. EXCAVATION TO BEGIN
ON 5-9-18 BUILD FULL CELLER +-28 X56	, 2CAR GARAGE ON ONE EN
ADUGN OTHER END. MODULAR HOU	
REQUEST FOR WAIVERS	
Submission Requirements	
☐ The Applicant requesting a Waiver of Submission Re	quirements per Section 4-202. List:
Section: Sectio	n:
Section: Sectio	n:
Waiver of Standards	
☐ The Applicant is requesting a Waiver of Standards pe	
Section: Sectio	n:
Section: Sectio	n:
I have read the statements above and have provided the	ne required attached information which i
correct and accurate to the best of my knowledge.	
	5-16-18
Che Jany	J - 16- 13
Signature of Property Owner	Date
OFFICIAL USE ONLY	
File Number: GAPA-8626	e Paid: \$ <b>250 . 60</b>

## JANUSZ EXEMPTION PLAT A PARCEL OF LAND SITUATED IN, SEC. 27, T. 6 S., R. 89 W. OF THE 6TH P.M., COUNTY OF GARFIELD, STATE OF COLORADO



JOB NO.: 09010

DWG: 09010 1

DATE: 5/28/09

REV.:

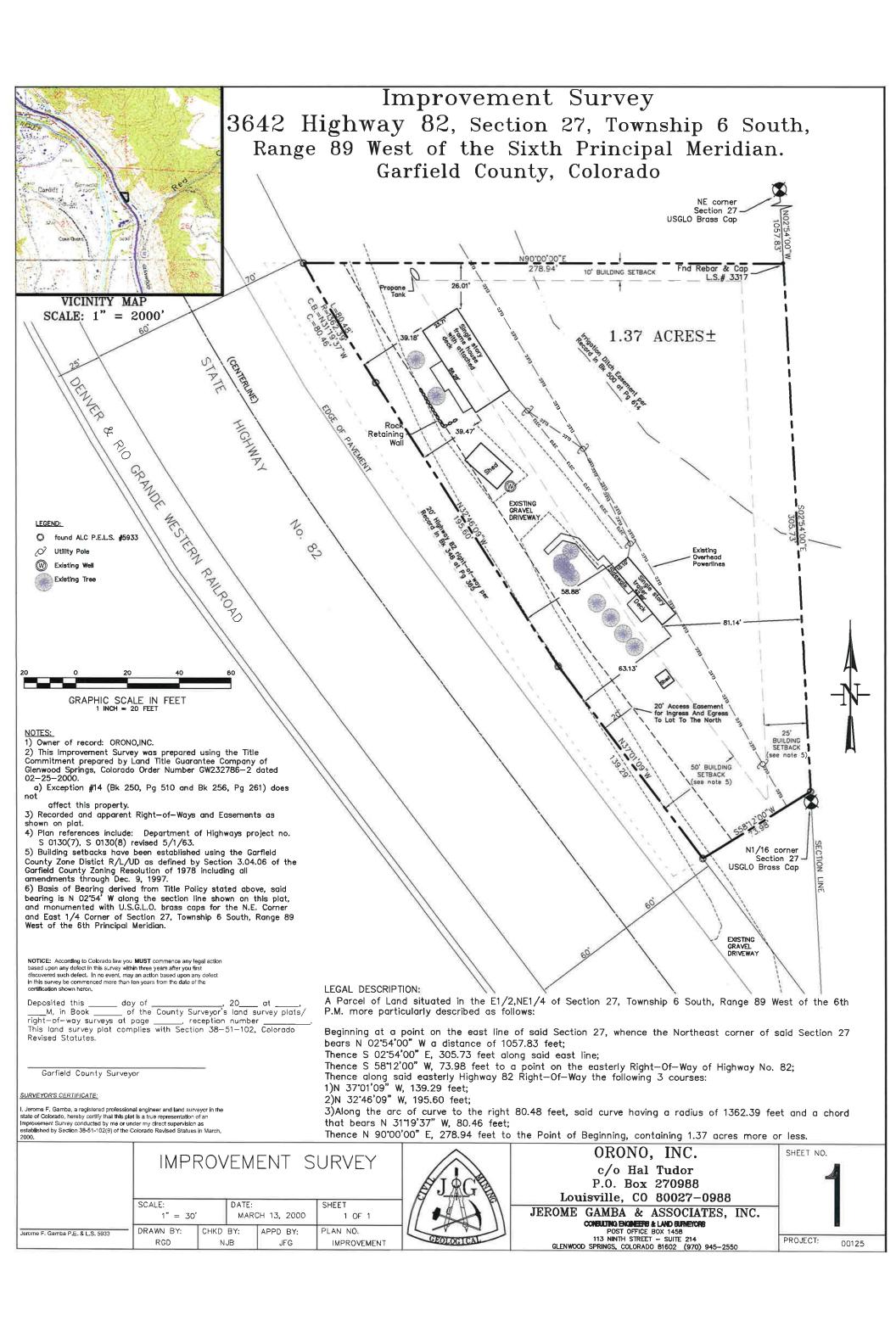
DWG. BY: KJS

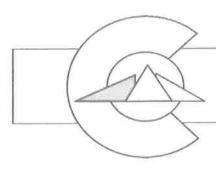
JANUSZ EXEMPTION PLAT
A PARCEL OF LAND SITUATED IN,
SEC. 27, T. 6 S., R. 89 W. OF THE 6TH P.M.,
COUNTY OF GARFIELD, STATE OF COLORADO

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CK. BY: BAS

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE AL LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY AN ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEA





# Garfield County

**Community Development Department** 

May 24, 2018

Chris Janusz 3644 Highway 82 Glenwood Springs, CO 81601

RE: Completeness Review Janusz ADU - GAPA-05-18-8646

Dear Mr. Janusz

Thank you for your application for an Accessory Dwelling Unit located at 3644 Highway 82, Glenwood Springs CO 81601. Our completeness review included input from the County Attorney's Office and has identified several items that need to be addressed or clarified prior to a determination of technical completeness. Please respond to the following items:

#### Mineral Ownership Issues:

1. Please explain how the mineral research was completed and if the supplied records are the most up-to-date. The Quitclaim Mineral Deed shows half of the minerals are owned by Astrid Janusz Minerals LLC. An address is needed for that company if available.

3189'C" VIA BUENA UISTA LACOM WOODS CA 92637

Site Plan:

2. The Site Plan from 2009 shows a shed in the front yard setback. Please indicate whether or not that shed has been moved or provide a demonstration that the shed complies with required building setbacks. SHED WILL BE RENCUES

#### Grading and Drainage Plan:

3. Staff understands that a Grading and Drainage plan is being required as part of the Building Permit for the single-family residence. If this is the case, a waiver request may be applied for regarding this submittal requirement. Please indicate in the waiver request that the standard is being addressed as part of the building permit process.

#### Impact Analysis:

4. Please respond to the Impact Analysis Section in 4-203 (G) of the Land Use and Development Code.

108 Eighth Street, Suite 401 Glenwood Springs, Colorado 81601 (970) 945-8212

#### Water Plan:

- 5. Please provide a statement detailing what the water supply plan is for the ADU. The well sharing agreement indicates that only 2-single-family dwelling units may use the well.
- 6. Please provide the current well permit for the property as well as any application for a new well permit that has been submitted to the Division of Water Resources.
- 7. Included in the application is an application for a Water Allotment Contract from the Basalt Water Conservancy District, but it is illegible. Please provide a legible version.
- 8. Please provide a draft copy of the updated well-sharing agreement indicating how the well will be shared between the two lots with the addition of the ADU. Please note that the updated well-sharing agreement will be required to be signed-off on by the adjoining property owner.
- 9. A water quality test that meets Land Use and Development Code Standards in 4-203-M1b(5)(c) is required as part of the initial submittal. The applicant may request that the water quality test be completed as a Condition of Approval, however this needs to be submitted as part of the application. Staff also recommends that the applicant remove the copy of the check from the application as any submitted information submitted to this department is available to the public.
- 10. A 4-hour pump test that meets Section 4-203-M1b(5)(a) is required as part of the initial submittal. The applicant may request that the water quantity test be completed as a Condition of Approval, however this needs to be submitted as part of the application..

#### Article 7 Standards:

11. Please respond to standards fully described in Article 7: Division 1-3 of the Land Use and Development Code.

#### Access:

- 12. A traffic study is a required submittal item. Please indicate the estimated Average Daily Trips (ADT) on the road from Highway 82 to the proposed ADU.
- 13. Based on the traffic study, please provide a demonstration of whether or not the access road from Highway 82 to the proposed ADU meet the standards in Table 7-107 of the Land Use and Development Code. If the road does not meet those standards you may apply for a Waiver pursuant to the attached policy.
- 14. The application provided a letter from Dan Roussin of CDOT for the Subdivision Exemption in 2008. While not required staff recommends the applicant contact CDOT to discuss the application.
- 15. The access road appears to cross the property to the southeast. Please provide an access easement for that portion of the road.

#### Landscape Plan

16. It appears based on the submittal that a Landscape Plan is not required, based on ADU's being exempt from Landscape Standards. Please provide a waiver request for this submittal requirement. WAVER

#### Development & Improvements Agreement:

17. Based on the scope of the application, it does not appear to require a Development or Improvement Agreement. Please supply a waiver request for both of those submittal requirements.

#### Wastewater Management Plan:

18. It appears, that the new OWTS is designed for 4 bedrooms. Please provide a statement that the ADU is included in this system.

#### **Electronic Copies:**

19. The electronic copy does not include all the information included in the hard copies. Please provide an updated electronic copy that includes all submittals.

Once the above topics are addressed, we can finalize our completeness review and schedule a date for the Director's Decision. Please note that the Garfield County Land Use and Development Code requires that the technical completeness issues be resolved within 60-days of the date of this letter. If not resolved in that timeframe, the application will be deemed withdrawn, unless a request for extension is submitted and approved.

Please feel free to call or request a follow-up meeting with staff to address any questions you may have regarding the above items. You may reach me at provide address any questions you may have 1580.

Sincerely,

Patrick Waller

Wat B Waln

Senior Planner



Document must be filed electronically.
Paper documents are not accepted.
Fees & forms are subject to change.
For more information or to print copies of filed documents, visit www.sos.state.co.us.

Mailing address

(leave blank if same as street address)

Colorado Secretary of State

Date and Time: 09/24/2014 03:24 PM

ID Number: 20141584722

Document number: 20141584722

Amount Paid: \$1.00

ABOVE SPACE FOR OFFICE USE ONLY

#### **Articles of Organization**

filed pursuant to § 7-80-203	and § 7-80-204 of the Cold	orado Revised Sta	atutes (C.R.S.)		
1. The domestic entity name of the limit	ed liability company is  Astrid Minerals, LL0	0			
	(The name of a limited liability "limited liability company", liability co.", "limited", "l.l.c.	'ltd, liability company	", "limited liability co.", "Itd.		
(Caution: The use of certain terms or abbre	viations are restricted by law. I	Read instructions fo	r more information.)		
2. The principal office address of the lin	nited liability company's ini	tial principal offi	ice is		
Street address	3644 Highway 82				
	(Str	eet number and name)			
	Glenwood Springs	СО	81601		
	(City)	(State) United S	(ZIP/Postal Code)		
	(Province – if applicable)	(Countr	אין		
Mailing address					
(leave blank if same as street address)	(Street number and	I name or Post Office	Box information)		
	(City)	(State)	(ZIP/Postal Code)		
	(City)				
	(Province – if applicable)	(Country	y)		
The registered agent name and register agent are	ered agent address of the lim	ited liability con	npany's initial registered		
Name	Janusz	Christopher	M.		
(if an individual)	(Last)	(First)	(Middle) (Suffix)		
or		,	, , , , ,		
(if an entity) (Caution: Do not provide both an indiv	idual and an entity name.)				
Street address	3644 Highway 82				
3.334. 444.435	(Sir	eet number and name)			
	Glenwood Springs	CO	81601		

(City)

(State)

(Street number and name or Post Office Box information)

(ZIP Code)

	::	CŌ		
	(City)	(State)	(ZIP Code)	
(The following statement is adopted by mark  The person appointed as regis		being so appointe	d.	
4. The true name and mailing address	of the person forming the li	mited liability con	npany are	
Name (if an individual)	Janusz	Christopher		
or	(Last)	(First)	(Middle)	(Suffix
(if an entity) (Caution: Do not provide both an in	dividual and an entity name.)			
Mailing address	3644 Highway 82	er and name or Post Off	Gea Roy information)	
	(Du eci numo	er una nume or 1 ost og	ice Box injormation)	
	Glenwood Springs	s CO	81601	
	(City)	United S	(ZIP/Postal Co	ode)
	(Province – if applicable	le) (Country	v)	
The limited liability compar company and the name and  5. The management of the limited liab (Mark the applicable box.)  one or more managers.  or  the members.	mailing address of each suc			У
<ul> <li>6. (The following statement is adopted by marking.)</li> <li>There is at least one member of the following statement applies, adopt the second of the following statement contains additional contain</li></ul>	tatement by marking the box and inc	lude an attachment.)		
8. (Caution: Leave blank if the document d significant legal consequences. Read ins	tructions before entering a date.	)	-	
(If the following statement applies, adopt the . The delayed effective date and, if a		ment is/are		
		(mm	/dd/yyyy hour:minute ar	n/pm)

#### Notice:

Causing this document to be delivered to the Secretary of State for filing shall constitute the affirmation or acknowledgment of each individual causing such delivery, under penalties of perjury, that the document is the individual's act and deed, or that the individual in good faith believes the document is the act and deed of the person on whose behalf the individual is causing the document to be delivered for filing, taken in conformity with the requirements of part 3 of article 90 of title 7, C.R.S., the constituent documents, and the organic statutes, and that the individual in good faith believes the facts stated in the document are true and the document complies with the requirements of that Part, the constituent documents, and the organic statutes.

This perjury notice applies to each individual who causes this document to be delivered to the Secretary of State, whether or not such individual is named in the document as one who has caused it to be delivered.

9. The true name and mailing address of the individual causing the document to be delivered for filing are

Barker	Patrick	L.	
201 14th Street, Suite	(First) 200	(Middle)	(Suffix)
(Street number Karp Neu Hanlon F	r and name or Post Off C.	fice Box information)	
Glenwood Springs	CO	81601	
(City)	(State) United St	(ZIP/Postal C	ode)
(Province – if applicable	(Countr	<i>y)</i>	
(If the following statement applies, adopt the statement by marking the box as This document contains the true name and mailing address causing the document to be delivered for filing.			als

#### Disclaimer:

This form/cover sheet, and any related instructions, are not intended to provide legal, business or tax advice, and are furnished without representation or warranty. While this form/cover sheet is believed to satisfy minimum legal requirements as of its revision date, compliance with applicable law, as the same may be amended from time to time, remains the responsibility of the user of this form/cover sheet. Questions should be addressed to the user's legal, business or tax advisor(s).



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Colorado Secretary of State

Date and Time: 10/14/2014 08:42 AM

ID Number: 20141584722

Document number: 20141624306

Amount Paid: \$25.00

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A	rticles	of A	mendmen	ŕ

filed pursuant to §7-90-301, et seq. and §7-80-209 of the Colorado Revised Statutes (C.R.S.)

ID number:	20141584722		
1. Entity name:	Astrid Minerals, LLC	company indicate name h	natora the name change
2. New Entity name: (if applicable)	Astrid Janusz Minerals,		egore the name change)
3. Use of Restricted Words (if any of these terms are contained in an entity name, true name of an entity, trade name or trademark stated in this document, mark the applicable box):	"bank" or "trust" or any "credit union" " " "insurance", "casualty"	"savings and loan"	ייק
4. Other amendments, if any, are attached.			
5. If the limited liability company's period of duration as amended is less than perpetual, state the date on which the period of duration expires:	(mm/dd/yyyy)		
or			
If the limited liability company's period	of duration as amended is per	petual, mark this box	k: 🗍
6. (Optional) Delayed effective date:	(mm/dd/yyyy)		
Notice: Causing this document to be delivered to the acknowledgment of each individual causing individual's act and deed, or that the individual is causing person on whose behalf the individual is causing with the requirements of part 3 of article 9 statutes, and that the individual in good fair document complies with the requirements	ng such delivery, under penaltice dual in good faith believes the ausing the document to be deliful of title 7, C.R.S., the constitute the believes the facts stated in the state of the st	es of perjury, that the document is the act vered for filing, take tent documents, and the document are true	e document is the and deed of the en in conformity the organic e and the
This perjury notice applies to each individuate, whether or not such individual is nar	ual who causes this document and in the document as one who	to be delivered to the no has caused it to be	e secretary of e delivered.
7. Name(s) and address(es) of the individual(s) causing the document to be delivered for filing:		trick L.	
	(Last)	(First) (N	Middle) (Suffix)

	201 14th 9				
	Suite 200	Street name and num	ber or Post Off	fice Box in	formation)
	Glenwood	Springs	CO	8160	)1
	(6	City)	United S	States	(Postal/Zip Code)
	(Province	if applicable)	(Country	if not US)	r.
(The document need not state the true name and of any additional individuals causing the document and address of such individuals.,	-				

#### Disclaimer:

This form, and any related instructions, are not intended to provide legal, business or tax advice, and are offered as a public service without representation or warranty. While this form is believed to satisfy minimum legal requirements as of its revision date, compliance with applicable law, as the same may be amended from time to time, remains the responsibility of the user of this form. Questions should be addressed to the user's attorney.



5020 County Road 154 Glenwood Springs, CO 81601 Phone: (970) 945-7988

Fax: (970) 945-8454 Email: hpkglenwood@kumarusa.com

Office Locations: Denver (HQ), Parker, Colorado Springs, Fort Collins, Glenwood Springs, Summit County, Colorado

April 16, 2018

RECEIVED

Chris Janusz 3644 Highway 82 Glenwood Springs, Colorado Cmjanusz123@gmail.com JUN 0 4 2018

GARFIELD COUNTY

COMMUNITY DEVELOPMENT

Project No. 18-7-240

Subject:

Subsoil Study for Foundation Design, Proposed Residence, Lot 2, Janusz

Exemption Plat, 3644 Highway 82, Garfield County, Colorado

Dear Mr. Janusz:

As requested, H-P/Kumar performed a subsoil study for design of foundations at the subject site. The study was conducted in accordance with our agreement for geotechnical engineering services to Chris Janusz dated April 3, 2018. The data obtained and our recommendations based on the proposed construction and subsurface conditions encountered are presented in this report. A geologic hazards assessment of the subject site is beyond the scope of this report.

Proposed Construction: An existing mobile home on the lot will be removed and a new residence constructed. The proposed residence will be a modular home over a garden level basement located on the site as shown on Figure 1. Ground floors will be slab-on-grade. Cut depths are expected to range between about 4 to 6 feet. Foundation loadings for this type of construction are assumed to be relatively light and typical of the proposed type of construction.

If building conditions or foundation loadings are significantly different from those described above, we should be notified to re-evaluate the recommendations presented in this report.

**Site Conditions:** There are currently multiple sheds and a mobile home on the lot. The building site is relatively flat with the terrain sharply steepening further to the east down to the driveway. There is minor grading including cut and fill leveling of the proposed building site. Vegetation consists of grass, sagebrush, scrub oak, and scattered conifers with landscape.

Subsurface Conditions: The subsurface conditions at the site were evaluated by excavating two exploratory pits at the approximate locations shown on Figure 1. The pits were dug by the client prior to our arrival on the site. The logs of the pits are presented on Figure 2. The subsoils encountered, below about 1 foot of topsoil, consist of silty sand and gravel with cobbles and boulders that extended down to the pit depths of 7½ and 5½ feet. Around 1 foot of older manplaced fill was encountered in Pit 2 below the topsoil. Results of gradation analyses performed on samples of silty sand and gravel (minus 3-inch fraction) obtained from the site are presented on Figure 3. The laboratory testing is summarized in Table 1. No free water was observed in the pits at the time of excavation and the soils were slightly moist.

Foundation Recommendations: Considering the subsoil conditions encountered in the exploratory pits and the nature of the proposed construction, we believe spread footings placed on the undisturbed natural soil designed for an allowable bearing pressure of 1,500 psf can be used for support of the proposed residence with a risk of settlement. The risk of settlement is if the bearing soils were to become wetted and precautions should be taken to prevent wetting.

Footings should be a minimum width of 18 inches for continuous walls and 2 feet for columns. All topsoil, existing fill, and all loose disturbed soils encountered at the foundation bearing level within the excavation should be removed and the footing bearing level extended down to the undisturbed natural soils. The subgrade should then be moistened and compacted. Exterior footings should be provided with adequate cover above their bearing elevations for frost protection. Placement of footings at least 36 inches below the exterior grade is typically used in this area. Continuous foundation walls should be well reinforced top and bottom to span local anomalies such as by assuming an unsupported length of at least 12 feet. Foundation walls acting as retaining structures should also be designed to resist a lateral earth pressure based on an equivalent fluid unit weight of at least 50 pcf for the on-site soil, excluding debris, topsoil and oversized (plus 6 inch) rocks, as backfill.

Floor Slabs: The natural on-site soils, exclusive of topsoil, are suitable to support lightly loaded slab-on-grade construction. There could be some slab settlement if the subgrade becomes wetted. To reduce the effects of some differential movement, floor slabs should be separated

from all bearing walls and columns with expansion joints which allow unrestrained vertical movement. Floor slab control joints should be used to reduce damage due to shrinkage cracking. The requirements for joint spacing and slab reinforcement should be established by the designer based on experience and the intended slab use.

All fill materials for support of floor slabs should be compacted to at least 95% of maximum standard Proctor density at a moisture content near optimum. Required fill can consist of the onsite soils devoid of debris, topsoil and oversized rocks (plus 6-inch size).

**Underdrain System:** Although free water was not encountered during our exploration, it has been our experience in the area that local perched groundwater can develop during times of heavy precipitation or seasonal runoff. Frozen ground during spring runoff can also create a perched condition. We recommend below-grade construction, such as retaining walls and basement areas, be protected from wetting and hydrostatic pressure buildup by an underdrain system.

The drains should consist of drainpipe placed in the bottom of the wall backfill surrounded above the invert level with free-draining granular material. The drain should be placed at each level of excavation and at least 1 foot below lowest adjacent finish grade and sloped at a minimum 1% to a suitable gravity outlet. If rigid PVC drain pipe is used, which we recommend, a pipe slope of ½% can be used. Free-draining granular material used in the underdrain system should contain less than 2% passing the No. 200 sieve, less than 50% passing the No. 4 sieve and have a maximum size of 2 inches. The drain gravel backfill should be at least 1½ feet deep and be covered by filter fabric. An impervious membrane such as 20 or 30 mil PVC should be placed beneath the drain gravel in a trough shape and attached to the foundation wall with mastic to prevent wetting of the bearing soils.

**Surface Drainage:** Positive surface drainage is a very important aspect of the project to prevent wetting of the bearing soils. The following drainage precautions should be observed during construction and maintained at all times after the residence/ADU have been completed:

- Inundation of the foundation excavations and underslab areas should be avoided during construction.
- Exterior backfill should be adjusted to near optimum moisture and compacted to at least 95% of the maximum standard Proctor density in pavement and slab areas and to at least 90% of the maximum standard Proctor density in landscape areas. Free-draining wall backfill should be capped with filter fabric and about 2 feet of the on-site, finer graded soils to reduce surface water infiltration.
- The ground surface surrounding the exterior of the building should be sloped to drain away from the foundation in all directions. We recommend a minimum slope of 12 inches in the first 10 feet in unpaved areas and a minimum slope of 3 inches in the first 10 feet in pavement and walkway areas. A swale will likely be needed uphill to direct surface runoff around the residence and ADU.
- 4) Roof downspouts and drains should discharge well beyond the limits of all backfill.
- Landscaping which requires regular heavy irrigation should be located at least 10 feet from the building. Consideration should be given to the use of xeriscape to limit potential wetting of soils below the foundation caused by irrigation.

Limitations: This study has been conducted in accordance with generally accepted geotechnical engineering principles and practices in this area at this time. We make no warranty either express or implied. The conclusions and recommendations submitted in this report are based upon the data obtained from the exploratory pits excavated at the locations indicated on Figure 1 and to the depths shown on Figure 2, the proposed type of construction, and our experience in the area. Our services do not include determining the presence, prevention or possibility of mold or other biological contaminants (MOBC) developing in the future. If the client is concerned about MOBC, then a professional in this special field of practice should be consulted. Our findings include interpolation and extrapolation of the subsurface conditions identified at the exploratory pits and variations in the subsurface conditions may not become evident until excavation is performed. If conditions encountered during construction appear different from those described in this report, we should be notified at once so re-evaluation of the recommendations may be made.

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This report has been prepared for the exclusive use by our client for design purposes. We are not responsible for technical interpretations by others of our information. As the project evolves, we should provide continued consultation and field services during construction to review and monitor the implementation of our recommendations, and to verify that the recommendations have been appropriately interpreted. Significant design changes may require additional analysis or modifications to the recommendations presented herein. We recommend on-site observation of excavations and foundation bearing strata and testing of structural fill by a representative of the geotechnical engineer.

If you have any questions or if we may be of further assistance, please let us know.

Respectfully Submitted,

#### H-P ≥ KUMAR

Robert L. Duran, E. I.

Reviewed by:

David A. Young, P.E.

RLD/kac

attachments Figure 1 – Location of Exploratory Pits

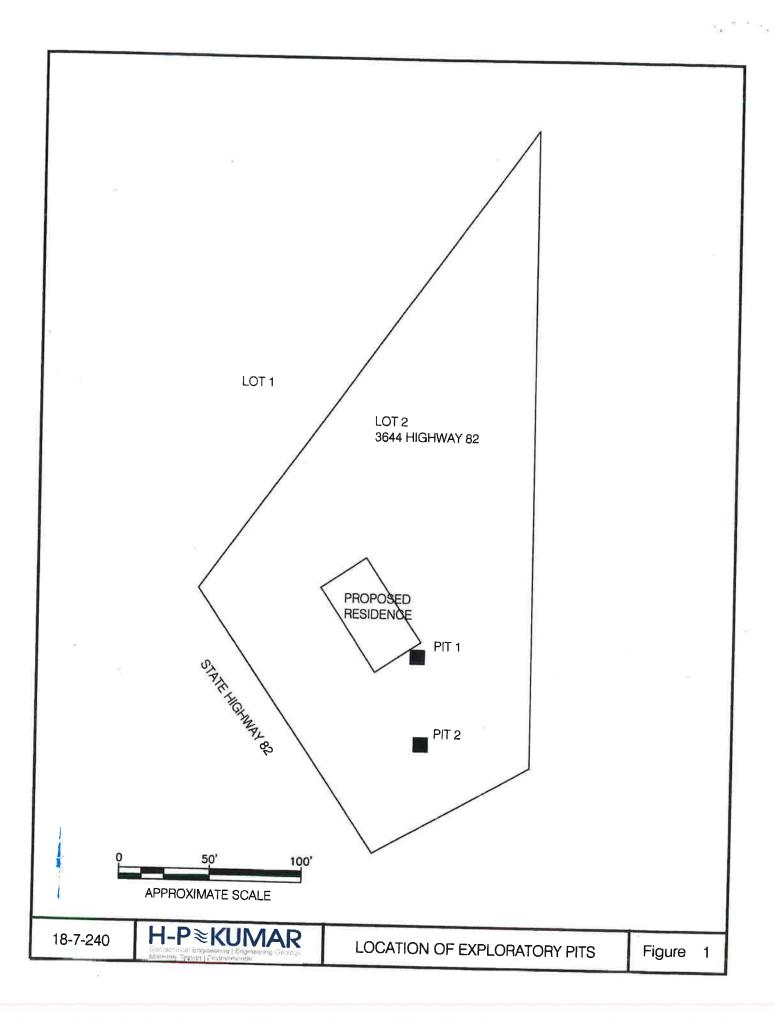
Figure 2 – Logs of Exploratory Pits Figure 3 – Gradation Test Results

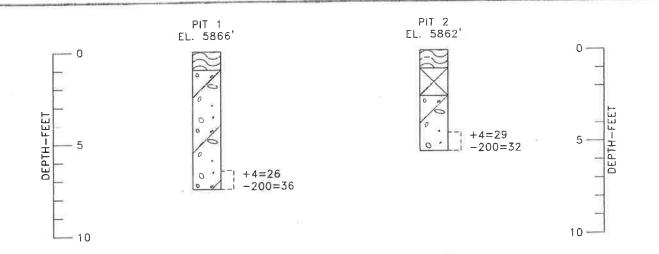
Table 1 – Summary of Laboratory Test Results

cc: Kurtz & Associates - Brian Kurtz (kurtzengineer@yahoo.com)

H-P**≋KUMAR** 

Project No. 18-7-240





#### LEGEND

TOPSOIL; SAND AND SILT, SCATTERED GRAVEL, SLIGHTLY MOIST, DARK REDDISH BROWN, SLIGHTLY ORGANIC.

FILL; SAND AND GRAVEL, SILTY, SLIGHTLY MOIST, REDDISH-BROWN.

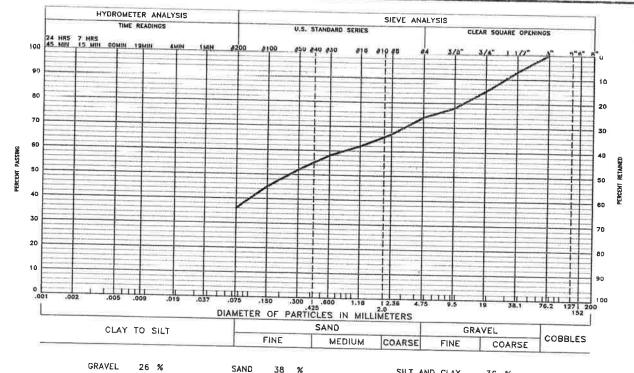
SAND AND GRAVEL (GM-SM); SILTY, SCATTERED COBBLES AND BOULDERS, MEDIUM DENSE, SLIGHTLY MOIST, REDDISH-BROWN.

DISTURBED BULK SAMPLE.

#### NOTES

- 1. THE EXPLORATORY PITS WERE EXCAVATED WITH A BACKHOE ON APRIL 2, 2018.
- 2. THE LOCATIONS OF THE EXPLORATORY PITS WERE MEASURED APPROXIMATELY BY PACING FROM FEATURES SHOWN ON THE SITE PLAN PROVIDED.
- 3. THE ELEVATIONS OF THE EXPLORATORY PITS WERE NOT MEASURED AND THE LOGS OF THE EXPLORATORY PITS ARE PLOTTED TO DEPTH.
- 4. THE EXPLORATORY PIT LOCATIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
- 5. THE LINES BETWEEN MATERIALS SHOWN ON THE EXPLORATORY PIT LOGS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES AND THE TRANSITIONS MAY BE GRADUAL.
- 6. GROUNDWATER WAS NOT ENCOUNTERED IN THE PITS AT THE TIME OF DRILLING, PITS WERE BACKFILLED SUBSEQUENT TO SAMPLING.
- 7. LABORATORY TEST RESULTS: +4 = PERCENTAGE RETAINED ON NO. 4 SIEVE (ASTM D 422); -200 = PERCENTAGE PASSING NO. 200 SIEVE (ASTM D 1140).

18-7-240



GRAVEL 26 %

SAND

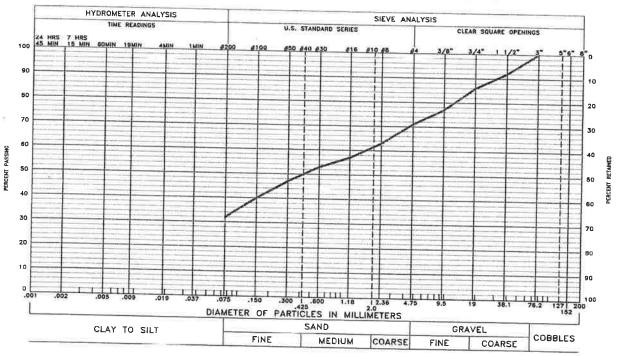
SILT AND CLAY 36 %

- LIQUID LIMIT

PLASTICITY INDEX

SAMPLE OF: Silty Sand with Gravel

FROM: Pit 1 @ 6.5'-7.5'



GRAVEL 29 %

SAND 39 %

SILT AND CLAY

32 %

LIQUID LIMIT

PLASTICITY INDEX

SAMPLE OF: Silty Sand with Gravel

FROM: Pit 2 @ 4.5'-5.5'

These test results apply only to the samples which were tested. The testing report shall not be reproduced, except in full, without the written approval of Kumar & Associates, Inc. Sieve analysis testing is performed in accordance with ASTM D422, ASTM C136 and/or ASTM D1140.

18-7-240

H-P**®**KUMAR

GRADATION TEST RESULTS

Fig. 3



## TABLE 1 SUMMARY OF LABORATORY TEST RESULTS

Project No. 18-7-240

SAMPLE	LOCATION	NATURAL	NATURAL	GRAD	ATION	DEDOCNIT	ATTERBE	RG LIMITS	UNCONFINED	
PIT	DEPTH (ft)	MOISTURE CONTENT	DRY DENSITY (pcf)	GRAVEL (%)	SAND (%)	PERCENT PASSING NO. 200 SIEVE	LIQUID LIMIT (%)	PLASTIC INDEX (%)	COMPRESSIVE STRENGTH (psf)	SOIL TYPE
1	6 1/2-7 1/2			26	38	36				Silty Sand with Gravel
					20					Gile Constanid Const
2	4 1/2-5 1/2			29	39	32				 Silty Sand with Gravel
							11			
							95			



February 9, 2009

Chris Janusz 3642 Highway 82 Glenwood Springs, Colorado 81601 Hepworth-Pawlak Geotechnical, Inc. 5020 County Road 154 Glenwood Springs, Colorado 81601

Phone: 970-945-7988

Fax: 970-945-8454 email: hpgeo@hpgeotech.com

RECEIVED

JUN 0 4 2018

GARFIELD COUNTY COMMUNITY DEVELOPMENT

Job No. 109 016A

Subject:

Preliminary Geologic Site Assessment, Proposed 2 Lot Subdivision, 3642

and 3644 Highway 82, Garfield County, Colorado

Dear Mr. Janusz:

This report presents the results of a preliminary geologic site assessment for the proposed 2 lot subdivision located at 3642 and 3644 Highway 82, Garfield County, Colorado. The purpose of the study was to evaluate the geologic conditions and their potential impacts on the project. The study was conducted in accordance with our agreement for professional services to Chris Janusz, dated January 26, 2009.

A field reconnaissance of the project site was made on February 2, 2009 to observe the geology and potential hazards at the site. In addition, we have reviewed previous studies in the area, published regional geologic studies and looked at aerial photographs. Based on this information, an assessment of the potential influence of the geology on the proposed development was made. This report summarizes our findings and presents our conclusions and recommendations.

Proposed Development: The proposed development consists of splitting the 1.37 acre, triangle shaped lot into two roughly equal size lots and replacing the existing trailer on the south lot (3644 Highway 82) with a single family residence.

At this time, no new development is planned for the home on the north lot, and plans for the single family residence on the south lot have not been developed. When building and grading plans have been developed for the site, we should be notified for additional geologic conditions assessment and a geotechnical evaluation.

Site Conditions: The project site is located in the northern part of the Roaring Fork River valley about 2 miles south of Glenwood Springs along the uphill, eastern side of Highway 82. The overall property is roughly triangular in shape with side dimensions of about 279 feet and 306 feet and 415 feet along Highway 82. The property abuts a single family residence to the north and a commercial development to the southeast. The steep hillside to the northeast is cut by relatively small, ephemeral drainages which slope down towards the project site and terminate at the Glenwood Ditch. The ditch is located between about 40 to 60 feet uphill of the existing structures. An 8-inch diameter PVC pipe has recently been buried in the bottom of the ditch for service to the adjacent properties. Currently, the ditch is about 12 feet wide and 4 feet deep. The property is located in the middle part of coalescing debris fans which originate about 300 feet upslope of the property. The property grade has been terraced to accommodate a trailer, modular residence and storage sheds which are accessed by a driveway from Highway 82 to the southwest. The overall slope across the development area is about 25 percent down to the southwest towards the Roaring Fork River, located about 1,700 feet southwest of the property. Above the ditch, the ground surface increases in steepness to about 50 percent. Vegetation on the property consists of grass and weeds, scattered small brush and several 10 to 20 foot tall pinon pines. Sandstone cobbles and boulders up to about 4 feet in size were observed on and surrounding the site. Most of the downhill properties on the alluvial fan have been developed with single family and commercial structures.

Regional Geologic Setting: The project site is located in the Carbondale collapse center of the Southern Rocky Mountains Region west of the Rio Grande rift and east of the Colorado Plateau. The Carbondale collapse center is the western of two regional evaporite collapse centers in western Colorado. It is an irregular-shaped, northwest trending region covering 460 square miles between the White River uplift and Piceance basin. As much as 4,000 feet of regional subsidence is believed to have occurred during the past 10 million years in the vicinity of Carbondale as a result of dissolution and flowage of evaporite from beneath the regions (Kirkham and Others, 2002). The Eagle Valley Formation is located stratigraphically below the Maroon Formation and crops out on the valley side west of the project site. Much of the evaporite related subsidence in the Carbondale collapse center appears to have occurred within the past 3 million years

which also corresponds to high incision rates along the Roaring Fork, Colorado and Eagle Rivers. This indicates that long-term subsidence rates have been very slow, between about 0.5 and 1.6 inches per 100 years. It is uncertain if regional evaporite subsidence is still occurring or if it is currently inactive. If still active, these regional deformations because of their very slow rates should not have a significant impact on the proposed development at the site.

Geologically young faults related to evaporite tectonics are present in the Carbondale collapse center but considering the nature of evaporite tectonics, these faults are not considered capable of generating large earthquakes. The closest geologically young faults that are less than about 15,000 years old and considered capable of generating large earthquakes are located in the Rio Grande rift to the east of the project site. The northern section of the Williams Fork Mountains fault zone Q50 is located about 50 miles to the northeast and the southern section of the Sawatch fault zone Q56b is located about 80 miles to the southeast. At these distances large earthquakes on these two geologically young fault zones should not produce strong ground shaking at the project site that is greater than the ground shaking shown on the U. S. Geological Survey 2002 National Seismic Hazards Maps (Frankel and Others, 2002).

Project Site Geology: The geology in the project area was observed on February 2, 2009. Our geologic interpretations also use regional geology maps by Soule and Stover (1985) and Kirkham and others (1995). The local bedrock is Maroon Formation consisting of moderate to shallow dipping, blocky red sandstone. These rocks were deposited in the central Colorado trough during the Ancestral Rocky Mountain orogeny about 300 million years ago. The regional bedding generally strikes to the north and dips to the east. Bedrock outcroppings directly northeast of the project site dip between 11 and 26 degrees down to the east, into the hillside. The Maroon is overlain by dense, black resistant alkali basalt in lava-flow layers several feet thick deposited between 8 and 23 million years ago. The closest basalt flows are located about 3,000 feet to the north of the project site.

Surficial Soil Deposits: The soil deposits in the project area are largely the result of erosion of red sandstone layers from bedrock outcroppings deposited as alluvial fans through a series of small drainages northeast of the project site. Several sandstone cobbles and boulders are visible on the surface. These fans appear active and could still be sites of infrequent rockfall and debris flows or floods associated with intense thunderstorms. A 6 to 8 foot incised drainage channel is located north of the property but appears to empty northwest of the site. The existing irrigation ditch would also appear to divert water and debris to the northwest around the project site and act as a catchment basin for rockfall.

Geologic Site Assessment: There are several conditions of a geologic nature that should be considered as project planning and design proceeds. The most significant are potential rockfall and debris flows and floods. Other geologic conditions are sinkhole potential, earthquake ground shaking and moisture sensitive foundation soils. Percolation testing performed in 1980 and 1984 for septic design reported percolation rates of 10 and 15 minutes per inch, respectively. A log of a domestic well drilled in 1962 reported rocky soils to a depth of 73 feet and groundwater level at 50 feet. The alluvial fan soils above the water level are considered to be collapsible when wetted. Shallow foundations are typically used in this area for lightly loaded structures, but recommendations for bearing on the moisture sensitive soils should be addressed with a site specific geotechnical study when the building plans have been developed. The potential risks and possible mitigations to reduce the risks associated with debris flows, rockfalls, sinkholes and earthquakes are discussed below.

Debris Flow and Flood Potential: The property is located in the middle part of coalescing alluvial fans that could be subject to sheetwash flows and floods during periods of snowmelt or heavy rainfall. There is a relatively high likelihood that future floods and flows will occur along hillside drainages but flows of the main drainage currently follow an incised drainage channel which passes northwest of the property. Smaller drainage channels are intercepted by the irrigation ditch which appears to carry water around the property to the northwest. In our opinion, there is a risk that debris flow material could breach the irrigation ditch during a large event and expose the project site

to significant building and property damage and possible harm to the building occupants.

If this risk is not acceptable then mitigation to reduce the risk should be considered.

Rockfall Potential: The steep hillside cliffs located to the northeast of the project site are resistant beds of the Maroon Formation that are source areas for repeated falls of rocks of varying sizes. Although rockfall occurrences have been documented in the Glenwood Springs area, we are not aware of rockfall documentation on the project site. Several cobble and boulder size rock fragments on the property do indicate a potential rockfall hazard. In our opinion, the risk is moderate that a rockfall event could reach the project site and cause significant building and property damage and possible harm to the building occupants. If this risk is not acceptable then mitigation to reduce the risk should be considered. The existing irrigation ditch has a 4 foot wall and a 12 foot wide catchment area which will prevent some rocks from reaching the project site.

Sinkholes: Geologically young sinkholes are present in the western Colorado evaporite region mostly in areas where the Eagle Valley Formation and Eagle Valley Evaporite are shallow. The Eagle Valley Formation underlies the Maroon Formation in the project area. Evidence of sinkholes was not observed at the project site during our field reconnaissance or on aerial photographs reviewed. Although geologically active in the region, the likelihood that a sinkhole will develop during a reasonable exposure time at the site is considered to be low. The property owner should be advised of the sinkhole potential, since early detection of building distress or settlement of graded areas may help with timely remedial action which is important in reducing the cost of repairs should an undetected subsurface void start to develop into a sinkhole.

Earthquake Potential: Historic earthquakes at the project site have typically been moderately strong with magnitudes of M 5.5 and less and maximum Modified Mercalli Intensities of VI and less (Kirkham and Rogers, 1985). Modified Mercalli Intensity VI ground shaking should be expected during a reasonable exposure time for the site, but the probability of stronger ground shaking is low. Intensity VI ground shaking is felt by most people and causes general alarm, but results in negligible damage to structures of good design and construction.

Future buildings on the site should be designed to withstand moderately strong ground shaking with little or no damage and not to collapse under stronger ground shaking. For firm rock sites with shear wave velocities of 2,500 fps in the upper 100 feet the U. S. Geological Survey 2002 National Seismic Hazard Map indicates that a peak ground acceleration of 0.06g has a 10% exceedence probability for a 50 year exposure time and a peak ground acceleration of 0.23g has a 2% exceedence probability for a 50 year exposure time at the project site (Frankel and Others, 2002). This corresponds to a statistical recurrence time of about 500 years and 2,500 years, respectively. The soil profile at the building site is estimated as Class D, stiff soil site, as described in the 2006 International Building Code.

Radiation Potential: Regional studies by the Colorado Geological Survey indicate that the closest radioactive mineral occurrences to the project site are located along the Grand Hogback near New Castle about 14 miles to the northwest (Nelson-Moore and Others, 1978). Regional studies by the U. S. Geological Survey (Dubiel, 1993) for the U. S. Environmental Protection Agency (EPA) indicate that the project site is in a moderate radon gas potential zone. The 1993 EPA regional radon study considered data from: (1) indoor radon surveys, (2) aerial radioactivity surveys, (3) the general geology, (4) soil permeability estimates, and (5) regional architectural practices. It is not possible to accurately assess future radon concentrations in buildings before they are constructed. Accurate tests of radon concentrations can only be made when the buildings have been completed. Because of this, new buildings in moderate to high radon areas are often designed with provisions for ventilation of the lower enclosed areas should post construction testing show unacceptable radon concentrations.

Surface Drainage/Grading: The grading plan for development of building sites should consider runoff through the project and not allow ponding. New grading should not impact existing drainages or reduce mitigation provided by the irrigation ditch and should consider potential flooding impacts. We should review site grading plans for the project prior to construction.

Limitations: This study has been conducted according to generally accepted engineering geology principles and practices in this area at this time. We make no warranty either express or implied. The conclusions and recommendations submitted in this report are based upon the data obtained from the field reconnaissance, review of published geologic reports, aerial photograph interpretation, and our experience in the area. This report has been prepared for the exclusive use for our client and is an evaluation of the potential influence of the geology on the proposed development. We are not responsible for technical interpretations by others of our information. Additional study will be needed if additional debris flow and flood, and rockfall mitigation is proposed. As the project evolves, we should provide continued consultation, conduct additional evaluations and review and monitor the implementation of our recommendations. Significant design changes may require additional analysis or modifications to the recommendations presented herein.

If you have questions or if we may be of further assistance, please let us know.

Respectfully Submitted,

HEPWORTH - PAWLAK GEOTECHNICAL, INC.

Scott W. Richards, E.I.

Engineering Geologist

Reviewed by:

Steven L. Pawlak, P.I

SWR/vam

#### References:

- Dubiel, R. F., 1993, Preliminary Geologic Radon Potential Assessment of Colorado in Geologic Radon Potential EPA Region 8, Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming: U. S. Geological Survey Open File Report 93-292-H.
- Frankel, A. D. and Others, 2002, Documentation for the 2002 Update of the National Seismic Hazard Maps: U. S. Geological Survey Open File Report 02-420.
- Kirkham, R. M. and Rogers, W. P., 1985, Colorado Earthquake Data and Interpretations 1867 to 1985: Colorado Geological Survey Bulletin 46.
- Kirkham, R. M. and Scott, R. B., 2002, Introduction to Late Cenozoic Evaporite Tectonism and Volcanism in West-Central, Colorado, in Kirkham R. M., Scott, R.
- Kirkham, R. M., Streufert, R. K., and Cappa, J. A., 1995, Geologic Map of the Glenwood Springs Quadrangle, Garfield County, Colorado, Colorado Geological Survey Open File Report 95-3.
- Nelson-Moore, J.L., Collins, D.B., and Hornbaker, A.L., 1978, Radioactive mineral Occurrences of Colorado: Colorado Geological Survey Bulletin 40 (reprinted as a CD-ROM, 2005).
- Soule, J.M. and Stover, B.K., 1985, Surficial Geology, Geomorphology, and General Engineering Geology of Parts of the Colorado River Valley, Roaring Fork River Valley, and Adjacent Areas, Garfield County, Colorado: Colorado Geological Survey Open-File Report 85-1.



Community Development Department 108 8th Street, Suite 401 Glenwood Springs, CO 81601 (970) 945-8212

www.garfield-county.com

# ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) PERMIT APPLICATION

TYPE OF CONSTRUCT	ION .
New Installation	☐ Alteration ☐ Repair
WASTE TYPE	
<b>☑</b> Dwelling □	Transient Use
Other Describe	
INVOLVED PARTIES	
Property Owner: _CHR	LUSTOPHER JANUSZ Phone: (970) 948-2011
Mailing Address: 364	14 HWY 82 GWS CO 81601
	NUSZ 123 E GMAIL I COM
Contractor: SAM	OCANER Phone: ()
Mailing Address:	
Email Address:	
	CE SEPTIC CARLA OSTBER Phone: (970 ) 309 - 5259
Mailing Address: 33 P	FOUR WHELE DRIVE RD
Email Address: CARLA	OSTBERG @ GMAIL. COM.
PROJECT NAME AND LOC	ATION
Job Address: 364	4 HWY 82 CWS CO \$1601
Assessor's Parcel Number	7: 2185 271940025ub. SANUSZ Lot 2 Block
	5 NCLE FAMILY+ HALL #Bedrooms: H Garbage Disposal(Y/N) 7
	munity Sewer System: WEST OF HUY \$2
Was an effort made to co	nnect to the Community Sewer System: <u>@V O</u>
Type of OWTS	Septic Tank
	☐ Recycling, Potable Use ☐ Recycling ☐ Pit Privy ☐ Incineration Toilet
	☐ Chemical Toilet ☐ Other
<b>Ground Conditions</b>	Depth to 1st Ground water table Percent Ground Slope
Final Disposal by	
	☐ Evapotranspiration ☐ Wastewater Pond ☐ Sand Filter
	□ Other
Water Source & Type	■ Well
	□ Community Water System Name
Effluent	WIII Effluent be discharged directly into waters of the State? ☐ Yes 🖥 No

#### CERTIFICATION

Applicant acknowledges that the completeness of the application is conditional upon such further mandatory and additional test and reports as may be required by the local health department to be made and furnished by the applicant or by the local health department for purposed of the evaluation of the application; and the issuance of the permit is subject to such terms and conditions as deemed necessary to insure compliance with rules and regulations made, information and reports submitted herewith and required to be submitted by the applicant are or will be represented to be true and correct to the best of my knowledge and belief and are designed to be relied on by the local department of health in evaluating the same for purposes of issuing the permit applied for herein. I further understand that any falsification or misrepresentation may result in the denial of the application or revocation of any permit granted based upon said application and legal action for perjury as provided by law.

			nd Certification above as well as to the best of my knowledge.
CHAIS JANUS		my	_4~11-18
Property Owner Prin	et and Sign	/	Date
OFFICIAL USE ONL			
Special Conditions:			
Permit Fee: 123.00	Perk Fee: ENG.	Total Fees: 123.00	Fees Paid: 123, 00
BUMF-5231	SEPT-5232	Issue Date:	Balance Due:
	· · · · · · · · · · · · · · · · · · ·	21	- <del>-</del>
BUILDING/ PLANNING DI	VISION: Signed Approval	-	Date

PD. \$ 123.00, 1# 1319, 4 30/18

33 Four Wheel Drive Rd Carbondale, CO 81623 970-309-5259

April 17, 2018

Project No. C1369

Chris Janusz cmjanusz123@gmail.com

Subsurface Investigation and Onsite Wastewater Treatment System Design 4-Bedroom Residence 3644 Hwy 82 Garfield County, Colorado

Chris.

ALL SERVICE septic, LLC performed a subsurface investigation and completed an onsite wastewater treatment system (OWTS) design for the subject residence. The property is located outside of Glenwood Springs, in an area where OWTSs are necessary.

Legal Description: MBL HOME TITLE: 24E714809 SERIAL: 5TFK10WP8515CU YEAR: 1959 MAKE:

DETROITER 10 X 45 SPACE: 0 Parcel ID: 2185-271-00-027

#### SITE CONDITIONS

The property is currently developed with a mobile home. The mobile home will be removed and replaced with a 4-bedroom, modular, single-family residence. The existing OWTS components will be properly abandoned.

There is a private well located on the property. The new septic tank will be located greater than 50-feet from the proposed septic tank and greater than 100-feet from the proposed soil treatment area (STA).

The property slopes to the southwest with a moderate grade. There is a fairly level area where we have proposed the STA. The site is vegetated with native grasses and bushes.

A ditch in a culvert is located approximately 80-feet north of the proposed STA. There is also a power pole in close proximity to the proposed STA. A minimum 10-foot setback will be maintained from the power pole to the STA. A minimum 10-foot setback will also be maintained from the STA to the property boundary.

#### SUBSURFACE

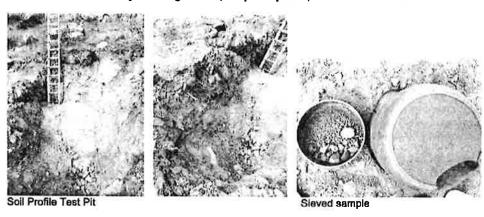
The subsurface was investigated on April 13, 2018 by digging one soil profile test pit excavation (Test Pit). Space on the property is limited for multiple Test Pits. A visual and tactile soil analysis was completed by Carla Ostberg.<sup>1</sup>

The materials encountered in the Test Plt #1 consisted of reddish brown loamy sand to a maximum depth explored of 7-feet. No bedrock or groundwater was encountered.

<sup>&</sup>lt;sup>1</sup> Caria Ostberg holds a Certificate of Attendance and Examination from the CPOW Visual and Tactile Evaluation of Soils Training.

A tactile analysis of the soils was taken from Test Pit #1 at 3-feet below grade. The soil formed a ball but did not form a ribbon. Soil structure shape was single grain, soil structure grade was moderate, and consistence was loose. The texture of the soil was gritty.

STA sizing is based on Soil Type 1, Loamy Sand with granular structure type and moderate structure grade. A long term acceptance rate (LTAR) of 0.8 gallons per square foot will be used to design the OWTS, in accordance with Table 10-1 Soil Type 1 presented in the Garfield County On-Site Wastewater Treatment System Regulations, adopted April 14, 2014.



#### **DESIGN SPECIFICATIONS**

The existing septic tank and STA will be abandoned in place. The septic tank must be collapsed and remaining void filled with gravel, sand, or compacted soil.

#### **Design Calculations:**

Average Design Flow = 75 GPD x 2 people/bedroom x 4 Bedrooms = 525 GPD LTAR = 0.8 GPD/SF

525 GPD / 0.8 GPD/SF x 1.0 (pressure dosed bed) x 0.7 (chambers) = 460 SF

The new OWTS design is based on 4-bedrooms. An average daily wastewater flow of 525 GPD will be used.

The installation must include a 1500-gallon, two-compartment concrete septic tank with an Orenco® ProPak and PF5005 pump in the second compartment. The septic tank must be set at an elevation that allows a minimum 2% fall from the house sewer line and a minimum 1% for drain back of the pump line from STA to the septic tank. Floats must be set to dose approximately 75 gallons per pump cycle, allowing for approximately 4 gallons of drain back after each pump cycle. The control panel for the pumpling system must be located within line of sight of the septic tank. We recommend contracting with Valley Precast out of Buena Vista for start-up of the pumping system.

Effluent will be pressure dosed through a 1.5-inch diameter pump line from the septic tank to the STA. The pump line must have a minimum 1% grade for proper drain back into the pump chamber of the septic tank after each pump cycle.

The STA will consist of a chamber bed with four rows of 10 'Quick 4' Standard Plus Infiltrator® chambers for a total of 40 chambers and 480 square feet of infiltrative area.<sup>2</sup>

Effluent will be pressure dosed to a 1.5-inch diameter level manifold and 1.5-inch diameter laterals, which must be hung with zip ties from the underside of the chambers. Laterals will have 5/32-inch diameter orifices facing up, with the exception of the first and last holes facing down for drainage. We recommend Orenco® Orifice Shields be placed on the downward facing orifices. The orifices must be placed 2-feet on center. Each lateral must end in a 90 degree ell facing up with a ball valve for flushing. Valves may be placed in a valve box, accessible from grade. Inspection ports must be placed at each comer of the chamber bed. Ports may be cut to grade and covered with a valve box for access.

The component manufacturers are typical of applications used by contractors and engineers in this area. Alternatives may be considered or recommended by contacting our office. Construction must be according to Garfield County On-Site Wastewater Treatment System Regulations, the OWTS Permit provided by Garfield County Building Department, and this design.

#### **REVEGETATION REQUIREMENTS**

An adequate layer of good quality topsoil capable of supporting revegetation shall be placed over the entire disturbed area of the OWTS installation. A mixture of native grass seed that has good soil stabilizing characteristics (but without taproots), provides a maximum transpiration rate, and competes well with successional species. No trees or shrubs, or any vegetation requiring regular irritation shall be placed over the STA. Until vegetation is reestablished, erosion and sediment control measures shall be implemented and maintained on site. The owner of the OWTS shall be responsible for maintaining proper vegetation cover.

#### **OPERATION INFORMATION AND MAINTENANCE**

The property owner shall be responsible for the operation and maintenance of each OWTS servicing the property. The property owner is responsible for maintaining service contracts for manufactured units, alternating STAs, and any other components needing maintenance.

Geo-fabrics or plastics should not be used over the STA. No heavy equipment, machinery, or materials should be placed on backfilled STAs. Livestock should not graze on the STA. Plumbing fixtures should be checked to ensure that no additional water is being discharged to OWTS. For example, a running toilet or leaky faucet can discharge hundreds of gallons of water a day and harm a STA.

If an effluent filter or screen has been installed in the OWTS, we recommend this filter or screen be cleaned annually, or as needed. If the OWTS consists of a pressurized pump system, we recommend the laterals be flushed annually, or as needed.

The homeowner should pump the septic tank every two years, or as needed gauged by measurement of solids in the tank. Garbage disposal use should be minimized, and non-biodegradable materials should not be placed into the OWTS. Grease should not be placed in household drains. Loading from a water softener should not be discharged into the OWTS. No hazardous wastes should be directed into the OWTS. Mechanical room drains should not discharge into the OWTS. The OWTS is engineered for domestic waste only.

<sup>&</sup>lt;sup>2</sup> ARC 36 chambers may be used instead of infiltrator® products. These chambers are slightly larger and if used should include 4 rows of 12 ARC 36 chambers.

#### **ADDITIONAL CONSTRUCTION NOTES**

If design includes a pump, weep holes must be installed to allow pump lines to drain to minimize risk of freezing. The pump shall have an audible and visual alarm notification in the event of excessively high water conditions and shall be connected to a control breaker separate from the high water alarm breaker and from any other control system circuits. The pump system shall have a switch so the pump can be manually operated.

Excavation equipment must not drive in excavation of the STA due to the potential to compact soil. Extensions should be placed on all septic tank components to allow access to them from existing grade. Backfill over the STA must be uniform and granular with no material greater than minus 3-lnch.

#### **INSTALLATION OBSERVATIONS**

ALL SERVICE septic, LLC must view the OWTS during construction. The OWTS observation should be performed before backfill, after placement of OWTS components. Septic tanks, distribution devices, pumps, dosing siphons, and other plumbing, as applicable, must also be observed. ALL SERVICE septic, LLC should be notified 48 hours in advance to observe the Installation.

#### LIMITS

The design is based on information submitted. If soil conditions encountered are different from conditions described in report, ALL SERVICE septic, LLC should be notified. All OWTS construction must be according to the county regulations. Requirements not specified in this report must follow applicable county regulations. The contractor should have documented and demonstrated knowledge of the requirements and regulations of the county in which they are working. Licensing of Systems Contractors may be required by county regulation.

Please call with questions.

Sincerely,

ALL SERVICE septic, LLC

Carla Ostberg, MPH, REHS

Carla 13thing

Reviewed By:

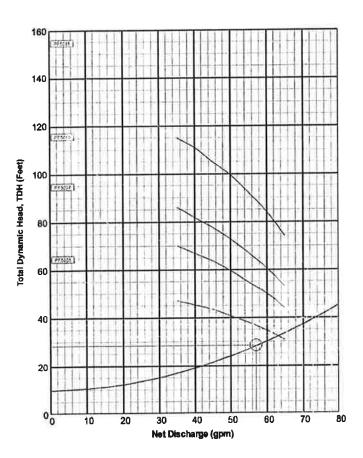
Richard H. Petz.

#### Pump Selection for a Pressurized System

- Single Family Residence Project

C1369/Janusz Residence

Dischargo Assembly Siza	200	त्तर्ग <del>व</del>
Transcortizanah	36	feet
InensportPipe Class	40	
TransportLine Size	150	inches
Olatribuling ValveIM odel	Name	
Max Bevalion Lift	10	<b>feet</b>
Manifold Length	9	<b>East</b>
Manifold Pipe Class	40	
Manifold Pipe Size	1.50	Inches
Number of Laterals per Cell	4	
ateral largh	40	feet
Lateral Pipe Class	40	
Lateral Pipe Size	150	riches
Orlifore Silzré	532	nches
Ortiloe Spaning	2	feet
Residual Heard	5	feat
FlowMater	None	Inches
Addition Friction Losson	0	feet
Calculations		
Minimum FlowRate per Orlice	0.68	gen
Number of Orlices per Zone	84	
Total FlowRate per Zone	57.1	<b>gen</b>
Number of Laterels per Zone	4	
% Flow Differential SalLand Online	18	%
Transport/Micolly	9.0	ts:
Frictional Head Losses		
Laustrouch Discharge	65	feet
Loss in Traveport	62	feet
Loss through Valve	00	feet
Lossin Manillotd	0.4	feet
Lossin Laterala	02	feet
Loss through Flowmeter	0.0	feet
'Add-orf Friction Losses	00	bø
Pipe Volumes		
Vola/ThereportLine	3.8	gells
Vol of Maritaid	0.9	gades
Vd of Latends per Zune	16.9	gelis
Tabil Valume	21.7	gais
Minimum Pump Require	ments	
Design Flow Rule	57.1	gam
	283	fest



#### PumpData

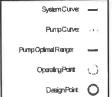
PF5005HighHead ElluentPump 50GPM, 12HP 116230V 12/950Hz,200/230V32/60Hz

PF5007 High Head Billuant Pump 50 GPM, 34HP 230V 1(2) 60Hz, 200720W60V 3(2) 50Hz

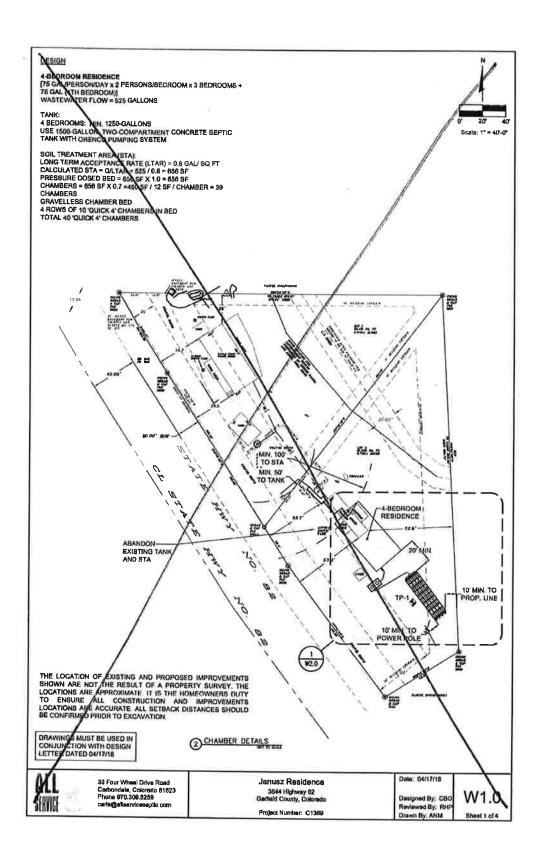
PF5010High Head Elluard Pump 50GPM, 1HP 230V 1/2/60Hz, 200460V 3/2/60Hz

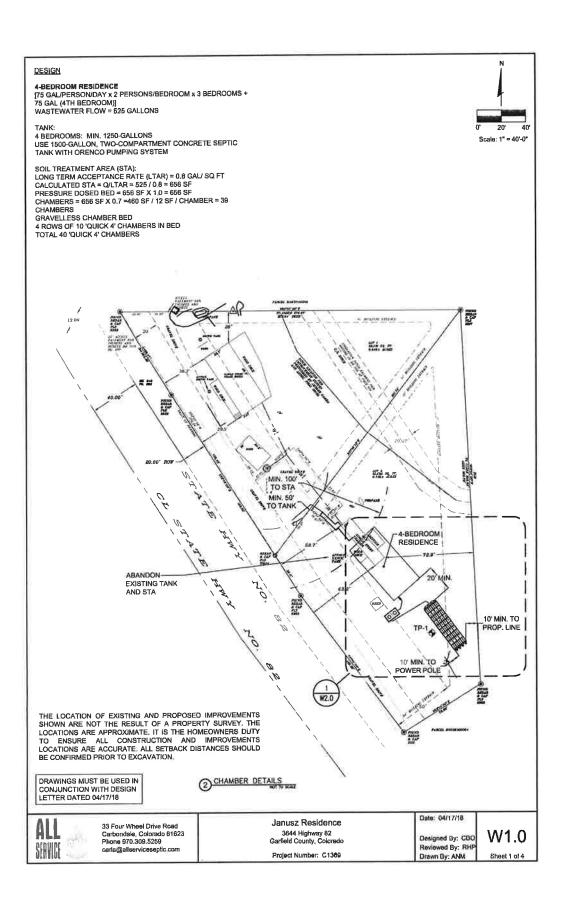
PF-6015High Head Billuart Pump 50 GPM, 1-12HP 230V 16960Hz, 200V 36960Hz

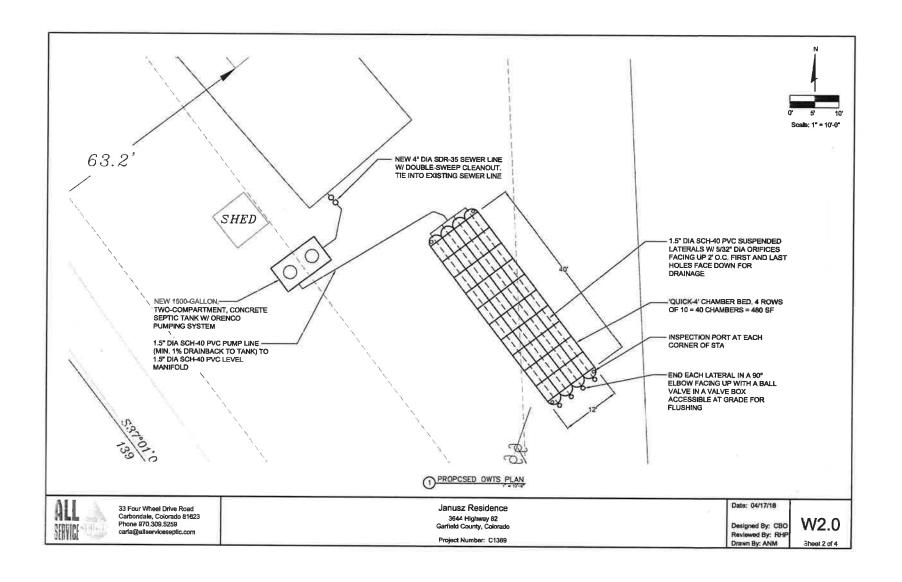


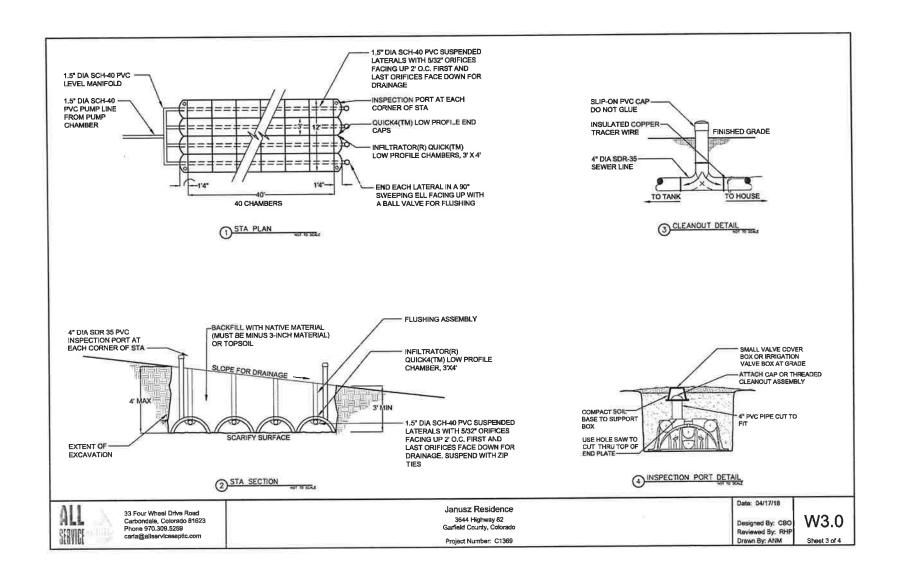


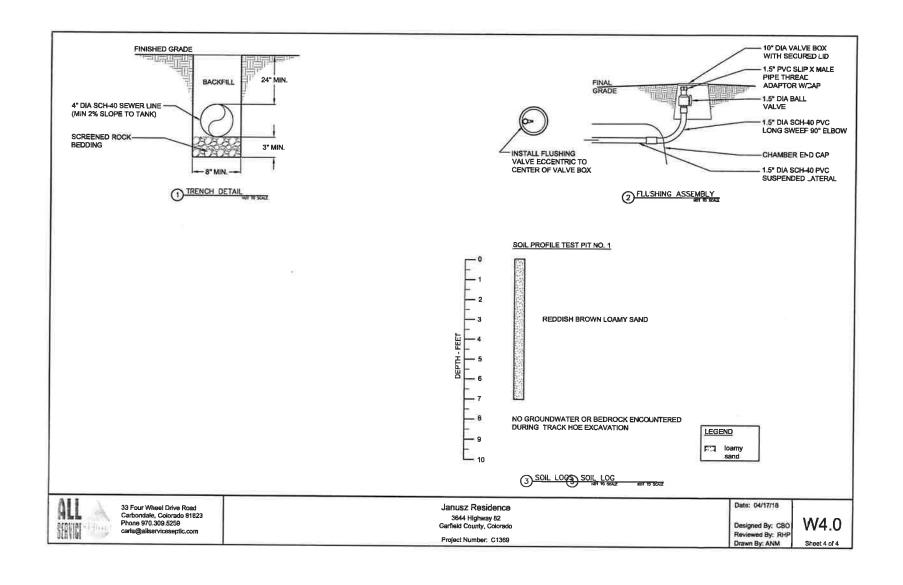












# item# 1500T-2CP-HH

# 1500 Gallon Top Seam Two Compartment with High Head Pump

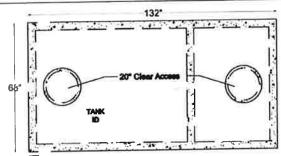
- DESIGN NOTES

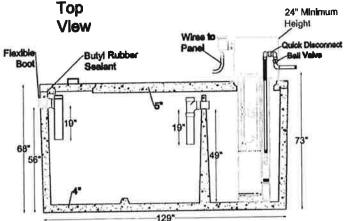
  Design per performance test per ASTM C1227
- Top surface area 62,33 ft<sup>2</sup>
- fc 28 doys; concrete = 6,000 PSI

- installation:

  Tank to be set on 5" min. sond bed or
- pea gravel
  Tank to be backfilled uniformly on all
- iank to be packfilled uniformly on all aldes in lifts less than 24° and mechanically compacted Excavated material may be used for backfill, provided large stones are removed Excavation should be devoted and trank filled with water arter to below
- Excavation should be dewatered and tank filled with water prior to being put in service for installation with water table less than 2' below grade Meets C1644-08 for resilient connectors inlet and Outlet identified above pipe Delivered complete with internal piping PVC risers available secondary safety screen available with PVC riser

	ALLOWABLE BURY (Based on Water Table)							
WATER TABLE	ALLOWABLE EARTH FILL							
0, - 0,	2, - 0,							
1' - 0"	2, - 0,							
2' - 0"	4" - 0"							
2, - 0,	4' - 0"							
DRY	4' - 0"							





# Section View

- Lowers TSS and improves effluent
- quality to field
- Easiest pump system to maintain on the market
- Complete Installation (wiring, panel, mounting and start-up procedures)
- Complete warranty

## \*Service contracts available for maintenance8

Digging Space

Dimensions

**Net Capacity** 

Net Weight

13' Long x 8' Wide Inlet Outlet Length Width Height Inlet Side Outlet Total Lid Tank 92" 1002 gal 507 gal 1509 gal 3600 lbs 11180 lbs 14980 lbs 56" 73" 132" 68° 56" below inlet



Water & Wastewater

Products

(719) 395-6764 Systems

28005 Co. Rd. 317 P.O. Box 925

Buena Vista, CO 81211

Fax: (719) 395-3727

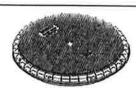
Website: www.valleyprecast.com Email: frontdesk@valleyprecast.com

# Double Walled PVC Riser & Lid Options

## Poly Lld

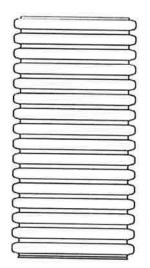
(Static load tested to 5000 lbs)

- Skid resistance surface
- Available in green
- Highest level of UV Protection included
- Includes a foam gasket for airtight and watertight applications
- Includes square drive screws to discourage unauthorized entry
- Insulation panels achieve R-10 insulation rating



Sparantaratarage

2" of insulation Standard



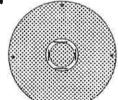
# Orenco ® DuraFiber™ Access Lids (FLD) Not recommended for vehicular traffic

24" and 30" Diameters

- Solid, resin-infused fiberglass construction
- 20,000-lb breaking strength
- Standard green or brown colors
- Available with or without urethane lid gasket
- Available with carbon filtration
- 4 stainless steel flathead socket cap screws & hex key wrench
- insulated lids available 2" or 4"



- Available in 24" and 30" Diameter
- Cut to length
- Sold in +/- 2" increments
- Must be cut between ribs





Water & Wastewater

- Systems
- Products

(719) 395-6764

28005 Co. Rd. 317 P.O. Box 925 Buena Vista, CO 81211

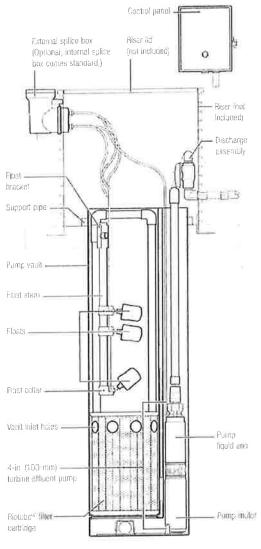
Fax: (719) 395-3727

Website: www.valleyprecast.com Email: frontdesk@valleyprecast.com

# Orenco' Paris Constant Constan

# Biotube® ProPak Pump Package™

# 60-Hz Series Pump Packages



Biotube® ProPak™ pump package components.

#### General

Orenco's Biotube<sup>ss</sup> ProPaki<sup>st</sup> is a complete, integrated pump package for filtering and pumping effluent from septic tanks, And its patented pump yault technology climinates the need for separate dosing tanks.

This document provides detailed information on the ProPak pump vault and filter, 4-in. (100-mm) 60-Hz turbine effluent pump, and control panel. For more information on other ProPak components, see the following Oranco technical documents:

- Float Switch Assemblies (NSU-MF-MF-1)
- Discharge Assemblies (NTD-HV-HV-1)
- Splice Boxes (NTD-SB-SB-1)
- External Splice Box (NTD-SB-SB-1)

# **Applications**

The Biotube ProPak is designed to filter and pump effluent to either gravity or pressurized discharge points. It is intended for use in a septic tank (one- or two-compartment) and can also be used in a pump tank.

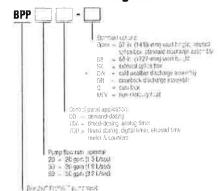
The Biotube ProPak is designed to allow the effluent filter to be removed for cleaning without the need to remove the pump vault or pump, simplifying servicing.

Complete packages are available for on-demand or timed dosing systems with flow rates of 20, 30, and 50-gpm (1.3, 1.9, and 3.2 U/sec), as well as with 50 Hz and 60 Hz power supplies.

#### **Standard Models**

BPP20DD, BPP20DD-SX, BPP30TDA, BPP30TDD-SX, BBPP50TDA, BPP50TDD-SX

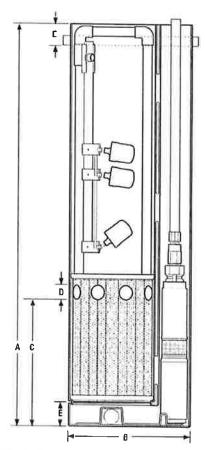
# **Product Code Diagram**



# Orenco Teninical Data

# ProPak™ Pump Vault

Polyethylena
PVC
57 (1448) or 68 (1727)
17,3 (439)
19 (475)
2 (50)
3 (76)
4 (102)

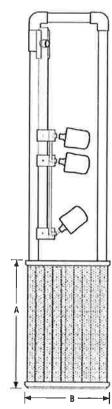


ProPak™ pump vault (shown with Biotube tiller and effluent pump)

# Biotube® Filter Cartridge

Materials of Construction	
Filter tubes	Polyethylene
Cartridge end plates	Polyurethane
Handle assembly	PVC
Dimensions, in. (mm)	
A - Cartridge height	18 (457)
R - Cartrioge width	12 (305)
Performance	
Biotobe® mesh opening	0.125 in. (3 mm)*
Total filler how area	4,4 ft² (0,4 m²)
Total filter surface area	14,5 ft² (1,35 m²)
Maximum flow rate	140 gpm (8.8 L/sec)

<sup>10 062-</sup>in 71.6 mm) filter mesh available.



Biotube® filter cartridge (shown with float switch assembly)

# 4-in. (100-mm) Turbine Effluent Pumps

Orenco's 4-in. (100 mm) Turbine Effluent Pumps are constructed of lightweight, corrosion-resistant stainless steel and engineered plastics; all are field-serviceable and repairable with common tools. All 60-Hz PF Series models are CSA certified to the U.S. and Canadian safety standards for effluent pumps, and meet UL requirements.

Power cords for Orenco's 4-in. (100-mm) turbine effluent pumps are Type SOOW 600-V motor cable (suitable for Class 1, Division 1 and 2 applications).

#### Materials of Construction

Discharge;	Stainless steel or glass-filled polypropylene
Discharge bearing:	Engineered thermoplastic (PEEK)
Diffusers:	Glass-tilled PPO
Impellers:	Acetal (20-, 30 gmp), Nocyl (50-gpm)
Intake screens:	Polypropylene
Suction connection:	Stainless steel
Drive shaft:	300 series stainless steel
Coupling:	Sintered 300 series stainless steel
Shell	300 sories stainless steel
Lubricant:	Deionizad water and propylene glycol

#### Specifications

Norn, flow, gpm (L/sec)	Letryth In. (mm)	Weight Ib (kg)	Discharge in., nominal <sup>1</sup>	impellers	
20 (1.3)	22,5 (572)	26 (11)	1.25	4	
30 (1.9)	21,3 (541)	25 (11)	1.25	3	
50 (3.2)	20.3 (518)	27 (12)	2.00	2	

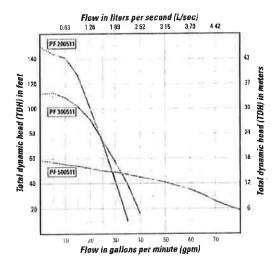
#### Performance

Nom. flow, gpm (L/sec)	hp (kW)	Design flow amps	Rated cycles/day	Min liquid level, in. (mm) <sup>2</sup>	
20 (1 3) 0 5 (0.37)		12.3	300	18 (457)	
30 (1.9) 0.5 (0.37)		11 8	300	20 (508)	
50 (3.2)	0.5 (0.37)	121	300	24 (610)	

Clusterge is contain NPT threaded, U.S. normal size, to accommodate thereof discharge have and valle assemblies. Consult your Chance Distributor about fittings to consult discharge assemblies to mother-shoot pring.

## **Pump Curves**

Pump curves, such as those shown here, can help you determine the best pump for your system. Pump curves show the relationship between flow (gpm or L/sec) and pressure (TDH), providing a graphical representation of a pump's performance range. Pumps perform best at their nominal flow rate, measured in gpm or L/sec.



<sup>&</sup>quot;Machinum figured lover is far simple gramps when installed in an Orenico Rictube" ProPak\*\*) Pomp Youth

# **Orenco**°

# renditive times them

UV-resistant fiberglass, UL Type 4X

# **Control Panel (Demand Dose)**

Orenco's ProPak<sup>™</sup> demand dose control panels are specifically engineered for the ProPak pump package and are ideal for applications such as demand dosing from a septic tank into a conventional gravity drainfield

#### Materials of Construction

Hinges	Stainless steel
Dimensions, in. (mm)	
A - Height	11,5 (290)
B - W.dtri	9.5 (240)
C - Depth	5 4 (135)

#### Specifications

Enclosure

Opecinicationa	
Panel radings	120 V 314 hp (0.50 kW), 14 A, single priase, 60 Hz
1 Motor-start contactor	16 FLA, 1 hp (0.75 kW), 60 Hz; 2,5 million cycles at FLA (10 million at 50% of FLA)
2. Circuit	120 V 10 A, OFF/ON switch, Single pole breakers
3 Toggle switch	Single-pols, couble-throw HOA switch, 20 A
4. Audio alorm	95 dB at 24 in (690 mm), wastile-tone sound. UL Type 4X
fi, Audio alpum	120 V, automatic reset, DIN rail mount silence relay
6 Visual alarm	7/8-fa, (22-mm) dialneter red lens, "Push-to-sience," 120 V LED, Ut. Type 4X

# **Control Panel (Timed Dose)**

Orenco's ProPak timed dose control panels are specifically engineered for the ProPak pump package and are ideal for applications such as timed dosing from a septic tank into a pressurized drainfield or mound, Analog or digital timers are available.

## Materials of Construction

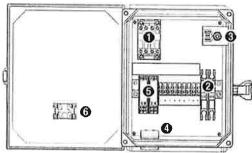
Enclosure	UV-resistant fiberglass_UL Type 4X					
Hinges	Stainless steel					

#### Dimensions, in. (mm)

A - Height	11.5 (290)
B - Width	9.5 (240)
C - Denth	5.4 (135)

#### Specifications

Panel ratings	120 V, 3/4 lip (0,56 kW), 14 A, single phase, 60 Hz					
Duar-mode	Programmable for timed- or demand-dosing (digital timed-dosing panels only)					
1a, Analog timer (net shovin)	120 V, repeat cycle from 0,05 seconds to 30 hours. Separate variable controls for OFF and ON time periods.					
16 Digital timer (shown below)	120-V programmable legic unit with built-in LCD screen and programming keys, Provides control functions and timing for panel operation					
2, Motor-start contestor	16 FLA, 1 hp (0.75 kW), 60 Hz; 2.5 million cycles at FLA (10 million at 50% of FLA)					
3. Circuit breakers	120 V, 10 A, OFF/ON switch. Single pole 120 V					
4. Toggle Switch	Single-pole, double-throw HCA switch, 20 A					
5, Audio alarm	95 dB at 24 in. (600 mm), warfile-tone sound, UL Type 4X					
6. Visual alarm	7/8-in. (22-mm) diameter rea lans, "Push-to-silance", 120 V LED, UL Type 4X					



Control panel, demand-dose



Control panel, timed-dose (digital timer model shown)

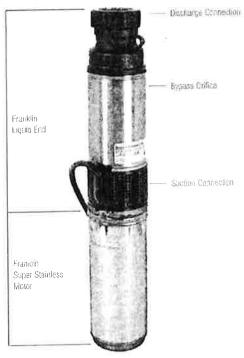
Orenco Technical Intelligence

# PF Series 4-inch (100-mm) Submersible Effluent Pumps

# **Applications**

Our 4-inch (100-mm) Submersible Effluent Pumps are designed to transport screened efficient (with law TSS counts) from septic tanks or separate cosing tanks. All our pumps are constructed of lightweight. corrosion resistant stainless steel and engineered plastics; all are fieldserviceable and repairable with common tools, and all 60-Hz PF Series models are CSA certified to the U.S. and Canadian safety standards for officent pumps, meeting UI requirements.

Orence's Effluent Pumps are used in a variety of applications, including pressurized drainfields, packed bed filters, mounds, aerobic units, effluent inigation, effluent sewers, wetlands, lagoons, and more. These pumps are designed to be used with a Biotube® pump vault or affer a secondary treatment system.





Franklin Electric

# Features/Specifications

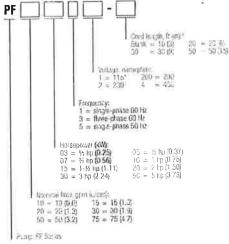
To specify this pump for your installation, require the following:

- Minimum 24-hour run-dry capability with no deterioration in pump life or performance\*
- Patented 1/8-inch (3-mm) bypass onlice to ensure flow recirculation for motor cooling and to prevent air bind
- Liquid end repair kits available for better long-term cost of ownership
- TRI-SEAL<sup>TM</sup> floating impeller design on 10, 15, 20, and 30 gpm (0.6, 1.0, 1.3, and 1.9 L/sec) models; floating stack design on 50 and 75 gpm (3.2 and 4.7 L/sec) models
- · Franklin Electric Super Stainless motor, rated for continuous use and frequent cycling
- . Type SOOW 600-V motor cable
- · Five-year warranty on pump or ratrofit liquid and from date of manufacture against defects in materials or workmanship

#### Standard Models

See specifications chart, pages 2-3, for a list of standard pumps. For a complete list of available pumps, call Orenco.

#### Product Code Diagram



" is top it 37mH, cm).
220 value (a: 50 M) parts
9, 12 70 had complete analysis only in single phase surfly wrough " is to

<sup>1</sup> Not applicable for 5-tip (3.73 XW) models

# Orenco Technical Data Sheet

Specifica	Design gpm (L/sec)	Horsepower (KW)	hase	Nameplate voltage	Actual voltage	Design flow amps	Max amps	Impellers	Okscharge size and material '	Length, in. (mm)	Min. liquid level, ² in. (mm)	Weight, <sup>3</sup> lb (kg)	Rated cycles/day
Pump Modei	٥٤	重支	¥	꽃	2	2 8	<b>≅</b>	Ē	품	\$	<b>≟</b> .5	¥.	五
Pf 100511	10 (0.6)	0.50 (0.37)	1	115	120	12.7	12.7	6	1 34 in. GFP	23.0 (660)	16 (406)	26 (12)	300
PF100512	10 (0.6)	0.50 (0.37)	1	230	240	6.3	6.3	6	1 ¼ in GFP	23.0 (660)	16 (406)	26 (12)	300
PF10053200	10 (0,6)	0.50 (0.37)	3	200	208	3.8	3.8	6	1 ¼ in GFP	23.0 (660)	16 (406)	26 (12)	300
PF100712 + 5	10 (0.6)	0.75 (0.56)	1	230	240	8.3	8.3	В	1 1/4 in, GFP	25.9 (658)	17 (432)	30 (14)	300
PF10073200 45	10 (0.6)	0.75 (0.56)	3	200	208	5.1	5.2	В	1 ¼ in. GFP	25.4 (645)	17 (432)	31 (14)	300
PF101012 5-F	10 (0.6)	1 00 (0 75)	1	230	240	9.6	9.6	9	1 ¼ in: GFP	27.9 (709)	18 (457)	33 (15)	100
PF10103200 5 8	10 (0.6)	1 00 (0.75)	3	200	208	5.5	5.5	9	1 14 in GFP	27.3 (693)	18 (457)		
PF102012 5 6 7 8	10 (0.6)	2.00 (1.49)	7	230	240	12.1	12.1	18	1 1/4 in, SS	39.5 (1003)	22 (559)	37 (17) 48 <b>(22)</b>	300
PF102032 * * *	10 (0.6)	2.00 (1.49)	3	230	240	7.5	7.6	18	1 ¼ In. SS	37.9 (963)	20 (508)		100
PF10203200 5.6.6	10 (0.6)	2,00 (1,49)	3	200	208	8.7	8.7	18	1 1/4 in, SS	37.9 (963)		44 (20)	300
PF150311	15 (1.0)	0.33 (0.25)	1	115	120	8.7	8.B	3	1 1/4 in GFP	19.5 (495)	20 <b>(500)</b> 15 (380)	44 (20)	300
PF150312	15 (1.0)	0.33 (0.25)	1	230	240	4.4	4.5	3	1 3/4 in. GFP	19.5 (495)		23 (10)	300
PF200511	20 (1.3)	0.50 (0.37)	1	115	120	12.3	12.5	4	1 34 in GFP	22,3 (566)	15 (380)	23 (10)	300
PF200512	20 (1.3)	0.50 (0.37)	1	230	240	6.4	6.5	4	1 ¼ in, GFP		18 (457)	25 (11)	300
PF20053200	20 (1.3)	0.50 (0.37)	3	200	208	3.7	3.8	4	1 1/4 In. GFP	22.5 (572)	18 (457)	26 (12)	300
PF201012 4 5	20 (1.3)	1.00 (0.75)	1	230	240	10.5	10.5	7	1 ¼ in. GFP	22,3 (566)	18 (457)	26 (12)	300
PF20103200	20 (1.3)	1.00 (0.75)	3	200	208	5.8	5,9	7	1 34 in GFP	28.4 (721)	20 (508)	33 (15)	100
PF201512 4 5	20 (1.3)	1.50 (1.11)	1	230	240	12.4	12.6	9	1 ¼ in. GFP	27.8 (706)	20 (508)	33 (15)	300
PF20153200 4.5	20 (1.3)	1.50 (1.11)	3	200	208	7.1	7.2	9		34.0 (864)	24 (610)	41 (19)	100
PF300511	30 (1.9)	0.50 (0.37)	1	115	120	11.8	11.8	3	1 ¼ in. GFP	30.7 (780)	20 (508)	35 (16)	300
PF300512	30 (1.9)	0.50 (0.37)	1	230	240	6.2	6.2		1 ¼ in. GFP	21,3 (541)	20 (508)	28 (13)	300
PF30053200	30 (1.9)	0.50 (0.37)	3	200	208	3.6		3	1 1/4 in. GFP	21.3 (541)	20 (508)	25 (11)	300
PF300712	30 (1.9)	0.75 (0.56)	1	230	240	8.5	3,6	3	1 1/4 in. GFP	21.3 (541)	20 (508)	25 (11)	300
PF30073200	30 (1.9)	0.75 (0.56)	3	200	208		8.5	5	1 ¼ in. GFP	24.8 (630)	21 (533)	29 (13)	300
PF301012 <sup>4</sup>	30 (1.9)	1.00 (0.75)	1	230	240	4.9	4.9	5	1 1/4 in. GFP	24.6 (625)	21 (533)	30 (14)	300
PF30103200 <sup>2</sup>	30 (1.9)	1.00 (0.75)	3	200		10.4	10.4	6	1 1/4 in GFP	27,0 (686)	22 (559)	32 (15)	100
PF301512 55	30 (1.9)	1.50 (1.11)	1	230	208	5.8	5.8	6	1 ¼ in GFP	26.4 (671)	22 (559)	33 (15)	300
PF30153200 4.5	30 (1.9)	1.50 (1.11)	3		240	12.6	12,6	8	1 1/4 in, GFP	32.8 (833)	24 (610)	40 (18)	100
PF301534 4.5	30 (1.9)	1.50 (1.11)	3	200	208	6,9	6,9	8	1 ¼ in, GFP	29.8 (757)	22 (559)	34 (15)	300
PF302012 5.6.7	30 (1.9)			460	480	2.8	2.8	8	1 1/4 in GFP	29.5 (685)	22 (559)	34 (15)	300
PF30203200 5.5	30 (1.9)	2.00 (1.49)	1	230	240	11.0	11.0	10	1 1/4 in SS	35.5 (902)	26 (660)	44 (20)	100
PF303012 5 6,7 8	30 (1.9)	3.00 (2.23)	3	200	208	9.3	9.3	10	1 14 in. SS	34.0 (864)	24 (610)	41 (19)	300
PF303032 5 4 8	30 (1.9)	1.000	3	230	240	16.8	16.8	14	1 1/4 in. SS	44.5 (1130)	33 (838)	54 (24)	100
PF305012 5,6 7,5	30 (1.9)	3.00 (2.23)		230	240	10.0	10.1	14	1 ¼ in SS	44.3 (1125)	27 (686)	52 (24)	300
F305032 5 8 6	30 (1.9)	5.00 (3.73)	1	230	240	25.6	25.8	23	1 ¼ in SS	66.5 (1689)	53 (1346)	82 (37)	100
F30503200 4 6-8		5.00 (3.73)	3	230	240	16,6	16,6	23	1 ⅓ in SS	60.8 (1544)	4B (1219)	66 (30)	300
PF500511	30 (1.9)	5.00 (3.73)	3	200	208	18.7	18.7	23	1 ¼ in SS	60.8 (1544)	48 (1219)	66 (30)	300
PF500512	50 (3.2)	0.50 (0.37)	1	115	120	12.1	12.1	2	2 in. SS	20.3 (516)	24 (610)	27 (12)	300
PF500532	50 (3.2)	0.50 (0.37)	1	230	240	6.2	62	2	2 in. SS	20.3 (516)	24 (610)	27 (12)	300
F50053200	50 (3.2)	0.50 (0.37)	3	230	240	3.0	3.0	2	2 in SS	20.3 (516)	24 (610)	28 (13)	300
	50 (3.2)	0.50 (0.37)	3	200	208	3.7	3.7	2	2 in SS	20.3 (516)	24 (610)	28 (13)	300
F500534	50 (3.2)	0.50 (0.37)	3	460	480	1.5	1,5	2	2 in , SS	20.3 (516)	24 (610)	28 (13)	300
F500712	50 (3.2)	0.75 (0.56)	1	230	240	0.5	8.5	3	2 in. SS	23.7 (602)	25 (635)	31 (14)	300
F500732	50 (3.2)	0.75 (0.56)	3	230	240	3.9	3.9	3	2 in. SS	23.7 (602)	25 (635)	32 (15)	300
F50073200	50 (3.2)	0.75 (0.56)	3	200	203	4.9	4.9	3	2 in. SS	23.1 (587)	26 (660)	32 (15)	300

Specificat	Jesign glow (1/sec)	Hz (co	nti:	Nameplate voltage	Actual voltage	Design flow amps	Мах аптры	Impellers	Oischarge slze and material <sup>1</sup>	Length, in. (mm)	Min. liquid level, <sup>2</sup> in. (mm)	Weight, 3 tb (kg)	Rated cycles/day
Pump Model PF500734	50 (3.2)	0.75 (0.56)	3	460	480	1.8	1.8	3	2 in . \$\$	34.8 (384)	25 (635)	31 (14)	300
PF501012	50 (3.2)	1,00 (0.75)	1	230	240	10.1	10.1	4	2 in SS	27.0 (686)	26 (660)	35 (16)	100
PF50103200	50 (3.2)	1.00 (0.75)	3	200	208	5.7	5.7	4	2 in, SS	28.4 (671)	26 (660)	39 (18)	300
PF501034	50 (3.2)	1.00 (0.75)	3	460	480	2.2	22	4	2 in SS	26.4 (671)	26 (660)	39 (18)	300
PF5015124	50 (3.2)	1.50 (1.11)	1	230	240	12.5	12.6	5	2 in_SS	32.5 (826)	30 (762)	41 (19)	100
PF501E32004	50 (3.2)	1.50 (1.11)	3	200	208	7.0	7.0	5	2 in SS	29.3 (744)	26 (660)	35 (16)	300
PF503012 45 7.6	50 (3.2)	3.00 (2.23)	1	230	240	17.7	17.7	8	2 in. SS	43.0 (1092)	37 (940)	55 (25)	100
PF50303200 4.5 N	50 (3.2)	3 00 (2 23)	3	200	208	13.1	13,1	6	2 in. <b>SS</b>	43.4 (1102)	30 (762)	55 (25)	300
PF5G3034 4.6 8	50 (3.2)	3,00 (2.23)	3	460	480	5.3	5,3	8	2 in. SS	40.0 (1016)	31 (767)	55 (25)	300
PF505012 567.5	50 (3.2)	5 00 (3 73)	1	230	240	26.2	26.4	13	2 in SS	65.4 (1661)	55 (1397)	64 (29)	300
PF505032	50 (3.2)	5.00 (3.73)	3	230	240	16.5	16,5	13	2 in SS	59.3 (1506)	49 (1245)	64 (29)	300
PE751012	75 (4,7)	1.00 (0.75)	1	230	240	99	10,0	3	2 in SS	27,0 (686)	27 (686)	34 (15)	100
PE751512	75 (4.7)	1.50 (1.11)	1	230	240	121	12,3	4	2 in, SS	33 4 (648)	30 (762)	44 (20)	100

# Specifications, 50 Hz

Pump Model PF100552	10 (0.6)	0.50 (0.37)	1	220	230	3.9	4.1	6	1 ¼ in GFP	23.0 (584)	17 (432)	26 (12)	300
PF100752 4.3	10 (0.6)	0.75 (0.56)	1	220	230	62	6,2	9	1 ¼ in, GFP	26.8 (658)	17 (432)	30 (14)	300
PF101552 L#	10 (0.6)	1.50 (1.11)	1	220	230	105	11.4	18	1 ¼ in SS	39.5 (1003)	22 (559)	46 (21)	300
PF300552	30 (1.9)	0.50 (0.37)	1	220	230	4.1	41	4	1 ¼ in, GFP	22.5 (572)	19 (483)	26 (12)	300
P£300752	30 (1.9)	0.75 (0.56)	1	220	230	6.1	6.1	5	1 ¼ in. GFP	24.8 (630)	19 (483)	29 (13)	300
PF301052	30 (1.9)	1.00 (0.75)	1	220	230	7.4	7.4	7	1 ¼ In, GFP	28.4 (721)	20 (508)	32 (15)	100
PF301552 4 5	30 (1.9)	1,50 (1 11)	1	220	230	93	9,3	8	1.14 in, GFP	35.4 (699)	24 (610)	46 (18)	100
PF500552	50 (3.2)	0.50 (0.37)	1	220	230	4.0	4.0	2	2 in \$\$	20.3 (51.0)	25 (635)	29 (13)	300
PF500752	50 (3.2)	0.75 (0.56)	1	220	230	6.3	6,4	3	2 in SS	23.7 (602)	25 (635)	31 (14)	300
PF501052	50 (3.2)	1 00 (0.75)	- 5	220	230	7.3	7.4	4	2 in SS	27.0 (686)	26 (660)	35 (16)	100
PF501552	50 (3.2)	1.50 (1.11)	1	220	230	9,1	9.1	5	2 in, \$5	32,5 (826)	30 (762)	42 (19)	100
PF751052	75 (3.2)	1.00 (0.75)	1	220	230	7.3	7,3	4	2 in \$5	30.0 (762)	27 (686)	34 (15)	100

<sup>1</sup> SPT is gain transparenting 55 - stations date from 1 July APT SPT declaring to 2 Aut in integers across that, the 1 X-in APT SPT declaring to 2 Aut in integers across that, the 1 X-in APT SPT declaring to 2 APT in the Part of the 1 X-in APT SPT declaring to 2 APT in the Part of the 1 X-in APT SPT declaring to 2 APT in the Part of the 1 X-in APT SPT declaring to 2 APT in the Part of the 1 X-in APT SPT declaring to 2 APT in the Part of the 1 X-in APT SPT declaring to 2 APT in APT SPT DECLARING TO 2 APT SPT D

- a regulation can cancer and valid displaced
- 4 High Section STLPA-64 assembly Record 3 Count parties have option (Q) to do starge least to,
- 5. Contain Archarge entropy resided for these course Committee in
- 7 Garman park bases and many or many or may continue continue portry and the bill samp in the fact described
- B. Regulation are marked for an purpose area are marked to the first of the purpose

<sup>2.</sup> Also are risked bod is the striple process incomplishment on the first distribution. They discuss the effect and leaders, when they are because the process for more information.

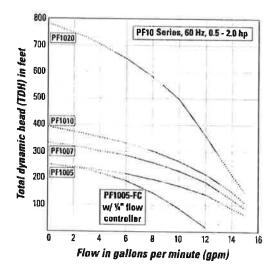
# **Materials of Construction**

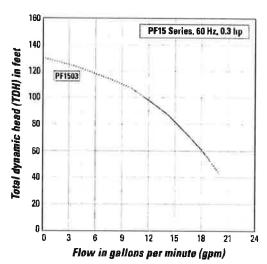
Discharge	Glass-filled polymopylene or stainless steel
Discharge bearing	Engineered thermoplastic (PEEK)
Diffusers	Glass-filled PPO (Norw GFN3)
Impellers	Celcon® acetal copolymer on 10-, 20, and 30-gpm models; 50-gpm impellers are Noryl GFN3
Intake screen	Polypropylane
Suction connection	Stainless steel
Drive shaft	7/16 inch hexagonal stainless steel, 300 series
Coupling	Sintered stainless steel, 300 series
Shell	Stainless steel, 300 series
Molor	Franklin motor exterior constructed of stainless steel. Motor filled with delimized water and propylene glycol for constant lubrication. Hermetically sealed motor housing ensures moisture-free windings, All thrust absorbed by Kingsbury-type thrust bearing. Rated for continuous duty. Single-phase motors and 200 and 230 V 3-phase motors equipped with surge arrestors for added security. Single-phase motors through 1.5 hp (1.11 kW) have built-in thermal overload protection, which trips at 203-221°F (95-105°C).

# **Using a Pump Curve**

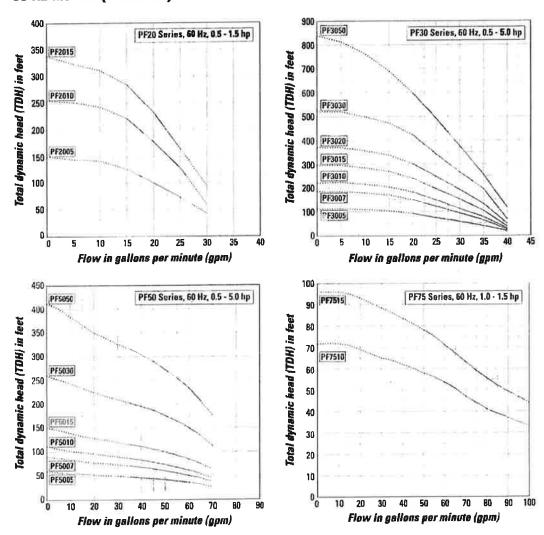
A pump curve helps you determine the best pump for your system. Pump curves show the relationship between flow (gpm or L/sec) and pressure (total dynamic head, or TDH), providing a graphical representation of a pump's optimal performance range. Pumps perform best at their nominal flow rate — the value, measured in gpm, expressed by the first two numerals in an Orenco pump nomenclature. The graphs in this section show optimal pump operation ranges with a solid line. Flow flow rates outside of these ranges are shown with a dashed line. For the most accurate pump specification, use Orenco's PumpSelect\*\* software.

# Pump Curves, 60 Hz Models

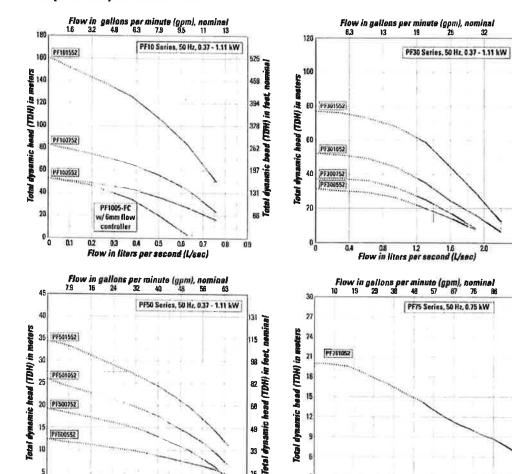




# **60 Hz Models (continued)**



# Pump Curves, 50 Hz Models



49

33

16

4.0 4.5

10 15 20 25 30 35 Flow in liters per second (L/sec)

12 18 24 30 36 42 48 Flow in liters per second (L/sec)

328

262 187 5 bead (TDH) in feat, n

131

88 79 (18 ) 19 (19 ) 19

69 (TDHI) in feet,

69

49

39

30

20

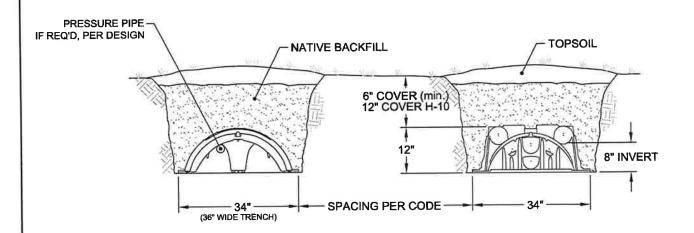
5.4

Total dynamic

66

# **INFILTRATOR WATER TECHNOLOGIES**

QUICK4 PLUS STANDARD CHAMBER TYPICAL TRENCH DETAIL SECTION VIEW (NOT TO SCALE)



\* LENGTH AND NUMBER OF TRENCHES DETERMINED BY DESIGN.



INFILTRATOR WATER TECHNOLOGIES
4 Business Park Rd. Old Saybrook, CT 08475

QUICK4 PLUS STANDARD CHAMBER TYPICAL TRENCH DETAIL SECTION VIEW

Drawn by: EMB			Date: 0	5/20/2015
Brain by EMB Scale: NOT TO SCALE	Checked by:	DFH	Sheet	1 of 1





# The Quick4® Plus Standard Chamber

#### Quick4 Plus \*\* Series

The Quick4 Plus Standard Chamber offers maximum strength through its two center structural columns. This chamber can be installed in a 36-inch-wide trench. Like the original line of Quick4 chambers, it offers advanced contouring capability with its Contour Swivel Connection™ which permits turns up to 15-degrees, right or left. It is also available in four-foot lengths to provide optimal installation flexibility. The Quick4 Plus All-in-One 12 Endcap, and the Quick4 Periscope are available with this chamber, providing increased flexibility in system configurations.



# Quick4 Plus Standard Chamber Specifications

#### Size

34"W x 53"L x 12"H (864 mm x 1346 mm x 305 mm)

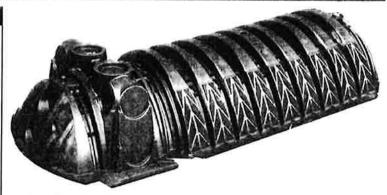
Effective Length 48" (1219 mm)

Louver Height 8" (203 mm)

Storage Capacity 47 gai (178 L)

Invert Height

0.6" (15 mm), 5.3" (135 mm), 8.0" (203 mm), 12.7" (323 mm)



#### **Quick4 Plus Standard Chamber Benefits:**

- · Two center structural columns offer increased stability and superior strength
- · Advanced contouring connections
- · Latching mechanism allows for quick installation
- · Four-foot chamber lengths are easy to handle and install
- · Supports wheel loads of 16,000 lbs/axle with 12" of cover



#### Quick4 Plus All-in-One 12 Endcap Benefits:

- May be used at the end of chamber row for an inlet/outlet or can be installed mid-trench
- Mid-trench connection feature allows construction of chamber rows with center feed, as an alternative to inletting at the ends of chamber rows
- Center-feed connection allows for easy installation of serial distribution systems
- Pipe connection options include sides, ends or top



#### Quick4 Plus All-in-One Periscope Benefits:

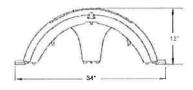
- Allows for raised invert installations
- 180" directional inletting
- 12" raised invert is ideal for serial applications

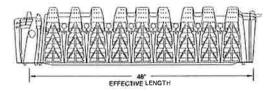
Certified by the international Association of Plumbing and Mechanical Officials (IAPMO)



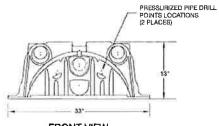


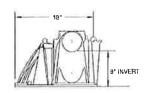
#### **Quick4 Plus Standard Chamber**





#### Quick4 Plus All-in-One 12 Endcap

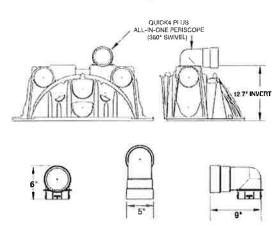




FRONT VIEW

SIDE VIEW

#### Quick4 Plus All-in-One Periscope



#### INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, endcap and other accessory manufactured by Infiltrator ("Unita"), which instated and operated in a leachfield of an onsite septic system in secondance with infiltrator's instructions; is warranted to the original purchaser ("Holder") against detective materials and workmanship for one year from the date that the septic permit is its suced for the septic system containing the Units; provided, nowever, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Ho der must notify infiltrator in writing at its Corporate Headquarters in Irol & Supriorio, Connecticut within lifteen if SJ days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty, Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE UMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Initirators. The Limited Warranty does not extent to incidental, consequential, special or indirect damages, initirator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any Inirid party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, steration, accioent, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions, failute of maintain the ministrum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper aiting or improper sizing, excessive water usage, improper grease disposal, or improper cepration; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event has held infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all side conditions required by state and local codes; all other applicable laws; and Infiltrator's installation installations.

(d) No representative of Infilirator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holdon.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact limiteter's Corporate Headquartors in Old Saybrook. Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

PLUS05.0713



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4 Business Park Hoad P.O. Box 769 Old Saybrook, CT 05475 860-577-7000 - Fax 860-577-7001 1-800-221-4436 www.infilltratorwater.com

U.S. Patentas: 4,789,861; 5,017,041; 5,169,488; 5,036,017; 5,401,116; 5,401,439; 5,511,900; 5,716,163; 5,538,778; 5,839,844 Canadian Patents: 1,329,959, 2,004,584. Other patents pending Infiliator, Cquellar, Quicks, and SideWinder are registered trademarks of Infiliator Water Technologies is a registered trademark in Mexico. Control. Micro-Learning, Polyting, Chamber-Spacer, MulliPort, Poelibock, QuickOrdy, Spagit, Color Advantas of Infiltrator Water Technologies is a registered trademark in Mexico. Control. Micro-Learning, Polyting, Chamber-Spacer, MulliPort, Poelibock, Quick-Mys, Spagit, Color Advantas of Infiltrator Water Technologies.

Polytink is a fragormark of Polytiok, Into TUF-TITE is a registered bademark of TUF-TITE, INC. Ultra-Rio is a trademark of IPEX Inc.

Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

# **Orenco**°

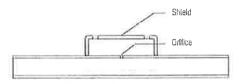
# **Orifice Shields**

# **Applications**

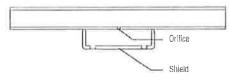
 $\mathsf{Orenco}^\alpha$  Orifice Shields are used in a pressurized distribution system to protect the orifices from backfill debris that might cause orifice blockage.



Orifice shield installed on lateral pipe, standard configuration



Cutaway view, standard configuration



Cutaway view, cold weather configuration

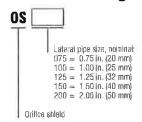
#### General

Orenco Orifice Shields snap-fit onto laterals. They may be placed on top of or beneath a lateral, depending on the location of the orifice. Orifice shields are covered by method-of-use patent # 5,360,556.

# **Standard Models**

0\$075, 0\$100, 0\$125, 0\$150, 0\$200

# **Product Code Diagram**



# **Material of Construction**

PVC per ASTM D-1784

## **Physical Specifications**

Model	Shield O.D. in. (mm)	Lateral pipe O.D. in. (mm)		
08075	3.5 (89)	1.05 (27)		
OS100	3.5 (89)	1 315 (33)		
OS125	3.5 (89)	1.66 (42)		
OS150	4.5 (114)	1.90 (48)		
OS200	4.5 (114)	2.375 (60)		

Item# SEK-

# Orenco<sup>®</sup> Flushing Assemblies



Flushing Assemblies

Orenco® flushing assemblies provide easy access for lateral maintenance. Flushing assembly kits include a PVC sweep with ball valve and a polyethylene valve box enclosure.

Orenco® flushing assemblies are available in the following sizes:

- 1" diameter
- 1.25" diameter
- 1.5" diameter
- 2" diameter



<u>Valve Boxes</u> Orenco<sup>®</sup> valve boxes are used to provide access to flushing assemblies. Constructed of polyethylene.

Valve Box, 7-in. diameter round enclosure

Note: Kits include VB7 valve box enclosure.





Water & Wastewater

- Systems
- Products

(719) 395-6764

28005 County Road 317 P.O. Box 925 Buena Vista, CO 81211

Fax: (719) 395-3727

Website: http://valleyprecast.com/ Email: frontdesk@valleyprecast.com STATE OF COLORADO

#### DEPARTMENT OF TRANSPORTATION

Traffic & Safety Section

222 South 6<sup>th</sup> Street, Room 100 Grand Junction, Colorado 81501 (970) 683-6284 Fax: (970) 683-6290

December 31, 2008

Chris Janusz 3642 Highway 82 Glenwood Springs, CO 81601

RE: Proof of Access for 3642, 3644, 3650

State Highway 082A at reference point 3.553 Left

Mr. Janusz:

The purpose of this letter is to provide proof for 3642 and 3644 Hwy 82 that it has access to the State Highway system. The access is off State Highway 82, were CDOT recently added a new traffic signal. The access appears to service three single family home (3642, 3644, 3650 Highway 82). After reviewing our files, CDOT does not have any access permit for this property. However, based upon our conversation, the property appears to have a "grandfathered access". Based upon the State Highway Code (2 CCR 601-1), it states "grandfathered means a condition that existed prior to June 21, 1979 when section 43-2-147, C.R.S., was first signed into law, or a condition that was legal and conforming to an earlier Code edition or statute, where such conditions and use have not changed since the effective date of the change in law that made the condition non-conforming with current law," Therefore, the property has legal access since there is no traffic volume change at the property.

It is my understanding that you wish to subdivide your property into 2 different lots. CDOT doesn't have any issues with the possible new subdivision of the property since it will not increase traffic volume by 20%. Therefore, no new permit will be required per the Code.

If you have any additional questions, please contact me.

Sincerely.

Dan Roussin

Region 3 Unit Permit Manager Daniel.Roussin@dot.state.co.us

Cc: File

ART 7 RESPONCE FROM CHIRIS JANUSZ RES 3644. HWY 82 GWS CO 8/601 PH 948-2011

- 1. THERE ARE 3 HOMES ON OUR PRIVATE DAIVE, 3644, 3642 AND 3650. I HAVE OWNED 3644 SINCE 2000, THE OTHER TWO ARE PAINATLY OWNED AND TOTALY SUPPORT MY IMPROVMENT PRETEXT. THE OTHER HOMES ARE TO THE NORTH. TO THE SOUTH IS A LARGE COMMERCIAL PROPERTY WITH A DIFFERENT ACCESS AND THEY ALSO SUPPORT MY IMPROVE MENT.
- 2. SITE FEATURES PLEASE SEE H-P-KUMAR SOILS REPORT DATED 4-16-18.
- 3. SOIL CHARACTISTICS PLEASE SEE HI-PEKUMAR SOILS REPORT
- 4. GEOLOGY+ WAZARA, PLEAS SEE H.P. KUMAR GROLOGIC REPORT DATED 2-9-69, I HAVE ADDED A LARGE BOULDER WALL FOR PROTECTO.
- 5, TIZASE SEE ALL SERVICE SEPTIC REPORT DATED 4-17-18. THIS REPORT HAS ALREADY INSTALLED A TOTALY NEW SEPTIC SERVICE FOR THE NEW HOUSE AND THE A.D. U.
- 6. ENPIONNMENTAL IMPACTS.
  - A, LONG TEAM, ALLOW NATURAL REGROTH MINIMAL DAMARE WAS DONE FOR CONSTRUCTION
  - B. RABBITS AND DEER CONTINUE TO USE THE PROPERTY, THEY DO NOT HAVE PERMITS.
  - C. DOES NOT APPLY.
  - D, NONE.
  - 7 NUISANCE, EXCAUATION IS DONG, BACKFILL AND FINISH GARAIDE WILL BE COMPLETE

Ch. Jamy 7-21:18.

11-20-14

#### TO WHOM IT MAY CONCERN

Chris Janusz 3644 HWY 82 Glenwood Springs CO 81601 C 970-948-2011

Janusz ADU Project; Please note the project description has changed from the original in that I am erecting a 28' X 56' full basement home 4' below existing grade. The lower level will be half garage and half ADU. The staff has been informed of this in the past several months.

Item #1 My son Eric Janusz, a licensed and insured building contractor will be assisting me and has full authority to assist me due to my age.

Item #2 We are installing a new OWTS Septic system designed by All Services Septic.

Item #3 This property has been occupied since 1964, therefore the impacts on the land will change only for the ADU.

Item #4 I claimed sole ownership of the mineral rights of this lot on 4 Sept, 2016 after the railroad lawsuit claiming all rights if not secured by others. K+At that time the mineral rights were with the land. My ex-wife Astrid Janusz claimed sole ownership of 3642 HWY 82, Glenwood Springs CO 81601 and I claimed sole ownership of 3644 HWY 82, Glenwood Springs CO 81601.

Item # 5 The driveway access at HWY 82 has existed since 1963, says CDOT letter.

Item #6 I responded incorrectly to a question from your staff and then had to pay a \$1700.00 engineering fee for my new OWTS . I would appreciate your help in minimizing requirements in the review because I am simply replacing a 1959 trailer house with a modular house on top of a 700 sq ft ADU and two car garage. Any excess work I have to do creates a financial hardship for me so I would greatly appreciate your help in these matters.

cle James

Thank you,

Chris Janusz

16 May 2018



Community Development Department 108 8th Street, Suite 401 Glenwood Springs, CO 81601 (970) 945-8212 www.garfield-county.com

# PRE-APPLICATION CONFERENCE SUMMARY

**TAX PARCEL NUMBER: 2185-271-34-002** 

PRE-APP DATE: 10/4/17

PROJECT: Janusz Accessory Dwelling Unit (ADU)

**OWNER:** Chris Janusz

PRACTICAL LOCATION: 3644 Highway 82, Glenwood Springs, CO 81601

**ZONING:** Residential Urban (RU)

COMPREHENSIVE PLAN: Glenwood Springs, Urban Growth Area

TYPE OF APPLICATION: Administrative Review for Accessory Dwelling Unit

# I. GENERAL PROJECT DESCRIPTION

The Applicant is proposing to construct an accessory building on their property on the second floor of a future detached garage. The property is Lot 2 of the Janusz Subdivision Exemption and is 0.726 acres in size. The minimum lot size for the RU Zone District is 7,500 sq.ft. The site meets the minimum lot size for an ADU in the RU Zone which is 15,000 sq.ft. (twice the minimum lot size). The current dwelling on the property is planned to be replaced by a new modular home. The future ADU would be subsequently constructed as part of the construction of the new detached garage.

Details on the ADU have yet to be determined, however, the unit would need to comply with the maximum size limit of 1,500 sq.ft. on lots less than 4 acres. The unit would be served by a shared well and an existing onsite waste water treatment system (OWTS). The OWTS system may need to be upgraded to be adequate to serve the new unit. While the lots is less than the normal required size for a well and OWTS, as an existing lot of record the well and OWTS can be approved. Demonstration of adequate water including legal water, physical water (pump testing) and acceptable water quality (water quality testing) is required. The well proposed to serve the ADU also serves a dwelling unit Lot 1 of the Janusz Subdivision Exemption. Updated well sharing agreements may be required.

Access to the lot and the proposed ADU is existing, by private driveway off of Highway 82. The access is at the County Road 154 signal light. Demonstration of adequate access including driveway widths and grade is required along with confirmation of access permitting with CDOT.

# II. SUMMARY OF REGULATORY PROVISIONS REQUIRED TO ADDRESS

- Garfield County Comprehensive Plan 2030 as amended
- Garfield County Land Use and Development Code as amended
  - o Article 3, Zoning
    - Rural Zone District Lot/Building Requirements (Table 3-201) and Use Table (Table 3-403)
  - Article 4, Application and Review Procedures
    - Administrative Review Process (Section 4-103)
    - Common Review Procedures (Section 4-101)
    - Table 4-102 Common Review Procedures and Required Notice
    - Application Materials (Table 4-201 and Section 4-203)
  - Article 7, Standards Division 1 General Standards, Division 2 General Resource Protection Standards, Division 3 Site Planning – as applicable
    - Additional Standards Applicable to an Accessory Dwelling Unit (Section 7-701 see excerpt below)

#### 7-701. ACCESSORY DWELLING UNIT

#### A. Maximum Floor Area.

The Floor Area of an ADU shall not exceed 1,500 square feet for a lot less than 4 acres. The Floor Area of an ADU shall not exceed 3,000 square feet for any lot 4 acres or greater.

#### B. Ownership Restriction.

An ADU is restricted to leasehold interest in the dwelling unit and is for residential or Home Office/Business use only.

# C. Compliance with Building Code.

Construction shall comply with the standards set forth in this Code and with Building Code requirements.

#### D. Minimum Lot Area.

The minimum Lot Size for an ADU is either:

- 1. 2 acres, or
- 2. For lots in zone districts with a minimum Lot Size of less than 2 acres, the minimum Lot Size is twice the minimum required Lot Size.

# E. Entrance to Dwelling Unit.

A separate entrance to the Accessory Dwelling Unit is required.

# III. ADMINISTRATIVE REVIEW PROCESS

The Application will follow the Administrative Review Process contained in Sections 4-101, 4-103 and Table 4-102:

- Pre-application Conference
- 2. Submittal of 3 hard copies of the Application along with 1 electronic (pdf) copy.
- 3. Review by staff for technical completeness.
- 4. If technically complete the Applicant will be notified and the request scheduled for a decision by the Director.
- If not technically complete the Applicant will be advised of the deficiencies and has 60 days to correct them.
- 6. The complete Application is referred to various agencies for comments.
- 7. A minimum of 15 days prior to the Director's Decision, the Applicant shall complete the public notice mailing by certified mail to adjacent property owners within 200 ft. and certified mail/return receipt requested to mineral rights owners on the property.
- 8. Staff prepares a report including public and referral comments.
- 9. The Director's Decision is documented by letter as of the noticed date.
- 10. The Board of County Commissioners are notified of the decision and have a 10 day call-up period.
- 11. The Land Use Change Permit is issued after the ten day call-up period has expired and provided no requests for a call-up are received and all conditions of approval have been met.
- 12. The Applicant has one year to complete all conditions of approval.

# IV. SUMMARY OF SUBMITTAL REQUIREMENTS - KEY TOPICS

The pre-application discussion covered the basic submittal requirements as outlined in the Land Use and Development Code and summarized below:

- General Application Materials (application forms, agreement to pay form, Statement of Authority for Trusts if applicable, authorization to represent, payment of fees etc.)
- Evidence of ownership such as a deed for the property and title work if available
- Narrative description of the proposal
- List of property owners within 200 ft. and any mineral rights owners on the property.
   Information on how mineral rights research was completed should be provided.
- Vicinity Map (including the area generally within 3 miles of the site)
- Site plan with information on proposed location of the ADU, other existing or proposed structures, and significant features on the property including but not limited to easements, utilities, ditches, streams/water bodies, access roads/driveways, wells, existing and proposed OWTS, and topography.
- Information on grading and drainage needs to be provided or waivers requested.
- Landscaping Plans are not required for ADU's.

- Impact Analysis (waivers may be requested from some sections).
- Information to address applicable sections of Article 7, Division I, II, and III including Standards for ΛDU's, Comprehensive Plan consistency, information on utilities and geologic hazards such as soils, slopes, and rockfall potential. Application formatting that address each section of Article 7 are recommended
- Information on legal access, physical access, and compliance with Roadway Standards Table 7-107 is required.
- Traffic Study is required however, a waiver may be requested and should include supporting information and justification.
- Water supply plan and supporting documentation (well permits, pump testing, and water quality testing).
- Waste Water Plans and supporting documentation.
   May include information on the ability to utilize the existing OWTS, plans for a new system if necessary, and copies of existing county permits.
- Development Agreements and Improvements Agreements are not applicable.
- A copy of the current subdivision plat including any plat notes and/or covenants need to be provided.

The Application submittal needs to include 3 hard copies of the entire Application and 1 Digital PDF Copy of the entire Application (on a CD or USB Stick). Both the paper and digital copies should be split into individual sections. Please refer to the pre-application summary for submittal requirements that are appropriate for your Application.

# Application Submittal

3 Hard Copies 1 Digital PDF Copy (on CD or USB stick)

Both the paper and the digital copy should be split into individual sections. Please refer to the list included in your pre-application conference summary for the submittal requirements that are appropriate for your application:

- General Application Materials
- Vicinity Map
- Site Plan
- Grading and Drainage Plan
- Landscape Plan
- Impact Analysis
- Traffic Study
- Water Supply/Distribution Plan
- Wastewater Management Plan
- Article 7 Standards

#### **WAIVERS**

The Applicant may request waivers from submittal requirements in accordance with Section 4-202 and from Standards in accordance with Section 4-118 of the Land Use and Development Code. Both sections contain review criteria for approval of waivers which need to be addressed in the application submittals. A follow-up discussion with Staff on anticipated waiver requests can be scheduled.

# V. APPLICATION REVIEW

a. Review by: Staff for completeness recommendation and referral agencies for additional technical review

b. Public Hearing:

X Director (not a public hearing but notice is required)

Planning Commission

Board of County Commissioners

Board of Adjustment

c. Anticipated Referral Agencies may include but are not limited to:

County Road and Bridge, CDOT, County Consulting Engineer, County Attorney, Fire Protection District, County Environmental Health Department, County Vegetation Manager, County Building Department, Colorado Division of Water Resources, CDPHE Water Quality Division.

VI.	APPL	ICATION	REVIEW	<b>FEES</b>
<b>v</b>				

a. Planning Review Fees:\$ 250.00

b. Referral Agency Fees: \$\_\_\_\_na\_\_\_ (may be billed separately)

c. Total Deposit: \$ 250.00 (additional hours are billed at \$ 40.50 /hour)

# VII. GENERAL APPLICATION PROCESSING

Planner reviews the case for completeness and sends to referral agencies for comments. Planner will contact the Applicant and set up a site visit. Planning Staff reviews application to determine if it meets standards of review. Planner makes a recommendation of approval, approval with conditions, or denial to the appropriate hearing body which in the case of Administrative review is the Director of the Community Development Department.

# VIII. DISCLAIMER

The foregoing summary is advisory in nature only and is not binding on the County. The summary is based on current zoning, which is subject to change in the future, and upon factual representations that may or may not be accurate. This summary does not create a legal or vested right and is good for a period of six months, after which an update should be requested.

# IX. APPLICATION SUBMITTAL - PUBLIC INFORMATION

The Applicant is advised that the Application submittal once accepted by the County becomes public information and will be available (including electronically) for review by the public. Proprietary information can be redacted from documents prior to submittal.

# PRE-APPLICATION SUMMARY PREPARED BY:

Glenn Hartmann Senior Planner Date

10/12/17

# A. Section 4-103 Administrative



# **Administrative Review Process**

(Section 4-103)

#### Step 1: Pre-application Conference

- May be waived by Director
- Applicant has 6 months to submit application

## Step 2: Application Submittal

## Step 3: Completeness Review

- •10 business days to review
- •If incomplete, 60 days to remedy deficiencies

## Step 4: Schedule Decision Date and Provide Notice

 Mailed to adjacent property owners within 200 feet and mineral owners at least 15 days prior to decision date

#### Step 5: Referral

•21 day comment period

#### Step 6: Evalution by Director

#### Step 7: Director's Decision

- •Call-up Period within 10 days of Director's Decision
- Applicant has 1 year to meet any conditions of approval



# **MEMORANDUM**

TO:

Staff

FROM:

County Attorney's Office

DATE:

June 24, 2014

RE:

Mineral Interest Research

Mineral interests may be severed from surface right interests in real property. Colorado revised statute 24-65.5-103 requires notification to mineral owners when a landowner applies for a land use designation by a local government. As such, the landowner must research the current owners of mineral interests for the property.

The Garfield County Land Use and Development Code of 2013 ("LUDC") Section 4-101(E)(1)(b)(4) requires written notice to owners of mineral interests in the subject property "as such owners can be identified through the records in the office of the Clerk and Recorder or Assessor, or through other means."

It is the duty of the applicant to notify mineral interest owners. The following is a suggested process to research mineral interests:

- Review the current ownership deed for the property (i.e. Warranty Deed, Special Warranty, Quit Claim Deed or Bargain and Sale Deed—NOT a Deed of Trust). The ownership deed is usually one or two pages. Is there a reservation of mineral interests on the ownership deed? Are there any exceptions to title? A deed may include a list of reservations that reference mineral owners or oil and gas leases.
- 2. Review your title insurance policy. Are there exceptions to title listed under Schedule B-II? If so, review for mineral interests that were reserved and oil and gas leases.
- 3. Check with the Assessor's office to determine if a mineral interest has been reserved from the subject property. The Assessor's office no longer documents the mineral reservation ownership for its tax roll records unless ownership has been proven. There are only a limited number of mineral owners who have provided such information to the Assessor's office so this may not provide any information, depending on your property.

MEMO June 24, 2014 Page 2

- 4. Research the legal description of the subject property with the Clerk and Recorder's computer. You can search the Section, Township, and Range of the subject property. You may find deeds for mineral interests for the subject property.
- Research whether a Notice of Mineral Estate Ownership was filed for the subject property. On the Clerk and Recorder's computer, search under Filter (on the right hand side of the screen), General Recordings, Notice of Mineral Estate Ownership for the subject property.
- If you find mineral interest owners as reservations on your deed, listed in your title
  insurance policy, from the Assessor's records or the Clerk and Recorder's computer, you
  need to determine whether these mineral interests were transferred by deed and recorded
  in the Clerk and Recorder's office.
- 7. Enter the name of the mineral interest owner as the Grantor in the Clerk and Recorder's computer to see if the mineral interest was transferred. If you find a transfer deed, you need to repeat this process to follow any transfer of the mineral interest to present day.
- Include a description of your research process in your application and the name(s) and address(es) of the current mineral interest owner(s).

Mineral interest research can be a difficult and time consuming process. If you are unable to determine mineral rights ownership by yourself, consider hiring an attorney or landman. Attorneys and landmen specialize in determining mineral rights ownership, but they charge a fee for their services.



# **PAYMENT AGREEMENT FORM**

GARFIFI	חכ	COUNTY ("COUNTY") and Property Owner ("APPLICANT") $\_{\mathcal{C}} \not\vdash \!$	J-11-10 43 6
		200111 ( 000111 ) ( 1111111 )	agree as follows:
1	1.	The Applicant has submitted to the County an application for the follows 3644 Hwy 62 Gws CO 81601	wing Project:
2	2.	The Applicant understands and agrees that Garfield County Resolution amended, establishes a fee schedule for each type application, and the administration of the fee structure.	No. 2014-60, as guidelines for the
ŝ	3.	The Applicant and the County agree that because of the size, nature or proposed project, it is not possible at this time to ascertain the full extinvolved in processing the application. The Applicant agrees to make project, and to thereafter permit additional content. The Applicant agrees to make additional payments upon not county, when they are necessary, as costs are incurred.	ent of the costs payment of the Base ests to be billed to the
i.	4.	The Base Fee shall be in addition to and exclusive of any cost for public consulting service determined necessary by the Board of County Commonsideration of an application or additional County staff time or expethe Base Fee. If actual recorded costs exceed the initial Base Fee, the additional billings to the County to reimburse the County for the proceed the Applicant acknowledges that all billing shall be paid prior to the first the County of any Land Use Change or Division of Land.	nissioners for the nse not covered by Applicant shall pay essing of the Project.
a	4.	consulting service determined necessary by the Board of County Comr consideration of an application or additional County staff time or expe the Base Fee. If actual recorded costs exceed the initial Base Fee, the additional billings to the County to reimburse the County for the proce The Applicant acknowledges that all billing shall be paid prior to the fir	nissioners for the nse not covered by Applicant shall pay essing of the Project.
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QUITCLAIM DEED
THIS DEED is dated by January, 2017, and is made between Christopher M. Janusz, an unmarried man and Astrid 15. Janusz, con unmarried woman.  (whether one, or more than one), the "Grantor", of the *2185.211-34- County of Oranga and State of California, and Christopher M. Janusz, an unmarried man (whether one, or more than one), the "Grantee," whose legal address is 3644 Highway 82 of the 771770 County of Garfield and State of Colorado.
WITNESS, that the Grantor, for and in consideration of the sum of Ten and no DOLLARS, (\$ 10 - ××), the receipt and sufficiency of which is hereby acknowledged, does hereby remise, release, sell and QUITCLAIM unto the Grantee, and the Grantee's heirs and assigns, forever, all the right, title, interest, claim and demand which the Grantor has in and to the real property, together with any improvements thereon, located in the County of Gazfield and State of Colorado, described as follows:  Section: 27 Township: a Range: 89 Lot:  2 Janusz exemption per part Recaption
also known by street address as: 3644 Highway & 20 and assessor's schedule or parcel number: 2185-271-34-002
TO HAVE AND TO HOLD the same, together with all and singular the appurtenances and privileges thereunto belonging, or in anywise thereunto appertaining, and all the estate, right, title, interest and claim whatsoever of the Grantor, either in law or equity, to the only proper use, benefit and behoof of the Grantee, and the Grantee's heirs and assigns, forever.
IN WITNESS WHEREOF, the Grantor has executed this deed on the date set forth above.  Christiphe M. January  *Invest "City and" if applicable

# Reception#: 888030 91/23/2017 02:45:37 PM Jean Riberico 2 pf 2 Rec Fee:518.00 Doc Fee:0.00 GARFIELD COUNTY CO

STATE OF CALIFORNIA  County of URANGE	) ) ss. )
,	before me this 14 day of JANUARY
20_17 , by <u>CHRISTOPHER M.JAX</u>	SUSZ + ASTRID B. JANUSZ
	Witness my hand and official seal.
VIRGINIA LYNN KENDALL COMM. #2154662 Notary Public - California Orange County My Comm. Expires June 20, 2020	Vinginia Lynn Kendell Matay Public Notary Public My commission expires: June 20, 2020

Name and Address of Person Creating Newly Created Legal Description (§ 38-35-106.5, C.R.S.)

## The Title Company of the Rockies

1620 Grand Avenue Bldg Main Floor 1 Glenwood Springs, CO 81601

PHONE: 970-945-1169

FAX: 844-269-2759

#### SELLERS SETTLEMENT STATEMENT

CASE NO.: 0600385

DATE OF PRORATION: May 31, 2016

SETTLEMENT DATE: May 31, 2016

PROPERTY ADDRESS: 3642 Highway 82

Glenwood Springs, CO 81601 SELLER: Christopher M. Janusz and Astrid B. Janusz

PURCHASER: Katherine R. Mac

LEGAL DESCRIPTION: LOT 1, JANUSZ EXEMPTION PLAT,

Garfield County, CO

DESCRIPTION	DEBIT	CREDIT
Sale Price of Property		\$317,500.00
Title - Closing Fee to Title Company of the Rockies	\$125.00	
Title - Owner's Title Insurance States to Title Company of the Rockies	\$1,057.00	
Title - Owner - Standard Deletions End to Title Company of the Rockies	\$75.00	
Real Estate Commission - Listing to Coldwell Banker Mason Morse	\$7,937.50	
Real Estate Commission - Selling to Coldwell Banker Mason Morse	\$7,937.50	
Title - Delivery Fee to Title Company of the Rockies	\$50.00	
Payoff of First Mortgage Loan to Wells Fargo Bank NA	\$113,140.00	
Transfer Fee to Thompson Glen Ditch Company	\$100.00	
Wire fee to Title Company of the Rockies	\$30.00	
Funds to Astrid to Astrid B. Janusz	\$93,309.44	
Funds to Christopher to Christopher M. Janusz	\$93,309.44	
County Property Taxes 1/1/2016 thru 5/30/2016	\$429.12	
Sub-totals	\$317,500.00	\$317,500.00
Due To Seller		
TOTALS	\$317,500.00	\$317,500.00

#### APPROVED AND ACCEPTED

Sales or use taxes on personal property not included. THE TITLE COMPANY OF THE ROCKIES assumes no responsibility for the adjustment of special taxes or assessments unless they are shown on the Treasurer's Certificate of Taxes Due. The condition of title to the property is to be determined by reference to the title evidence provided by Seller or by personal investigation. The above statement of settlement is approved as of the settlement date shown above and The Title Company of the Rockies is hereby authorized to disburse funds as indicated herein.

Seller

Coldwell Banker Mason Morse

Broker/Agent Jerome Whalen

Closing Agent

The Title Company of the Rockies

Astrid B. Janusz

CHRIS JANUSZ - OWNER 3644 HWY 82

GWS CO 81601

970-948-2011

I AM PURCHASING A 28'X56' MODULPA HOME AND INSTALLING IT ON A FULL BASEMENT, HALF OF WHICH WILL BE A 18ED A, D, U. AND THE OTHER HAVE WILL BE A 2 CAR GARAGE.

THE PROPERTY COMPLIES WITH DIL GARFEILD

BUILDING REQUEST.

IF ALSO AM BUILDING ANEW (OWTS) DESIGNED

THANK YOU

Chifconny CHRIS THNUSZ

## **Garfield County Land Explorer**

Parcel	Physical Address	Owner	Account Num	Mailing Address
218523300960	Not available GLENWOOD SPRINGS	BUREAU OF LAND MANAGEMENT	R060096	2300 RIVER FRONTAGE ROAD SILT, CO 81652
218526200004	3710 82 HWY GLENWOOD SPRINGS	VCPILLC	R060048	344 CORYELL RIDGE RD GLENWOOD SPRINGS, CO 81601-9669
218527100019	3650 82 HWY GLENWOOD SPRINGS	BACKE, RICHARD JR	R060001	3650 HIGHWAY 82 GLENWOOD SPRINGS, CO 81601
218527100029	3637 82 HWY GLENWOOD SPRINGS	PARTNERS III LLC	R060039	75 BUCKSKIN DRIVE CARBONDALE, CO 81623
218527134001	3642-003644 82 HWY GLENWOOD SPRINGS	MAC, KATHERINE R	R083691	3642 HIGHWAY 82 GLENWOOD SPRINGS, CO 81601
218527134002	3642-003644 82 HWY GLENWOOD SPRINGS	JANUSZ, CHRISTOPHER M	R083692	3644 HIGHWAY 82 GLENWOOD SPRINGS, CO 81601
ROW	Not available null			
ROW	Not available null			
ROW	Not available null			
ROW	Not available null			
ROW	Not available null			



# STANDARD BACTERIOLOGICAL WATER TEST ASPEN CONSOLIDATED SANITATION DISTRICT 0400 SERVICE CENTER DRIVE ASPEN, COLORADO 81611 (970) 925-7262, Ext. 109

SAMPLE TAKEN: DATE

SAMPLE TAKEN: DATE

TIME

SAMPLER

SAMPLER

SAMPLER

SAMPLER

CHLORINE

RESIDUAL

MG/L

() COMMUNITY SUPPLY () ROUTINE DISTRIBUTION SYSTEM SUPPLY
() NON COMMUNITY () CHECK SAMPLE () PRCCESS WATER
() OTHER PUBLIC () RAW () GROUND () SUFFACE
() PRIVATE () SPECIAL PURPOSE SAMPLE

"NOTE: IF ALL INFORMATION IS NOT SUPPLIED, THE SAMPLE WILL BE DISCARDED.

REMARKS:

RETURN TO

ADDRESS

CITY-STATE

PHONE

- SEE INSTRUCTIONS ON BACK PAGE -

SEE REVERSE FOR TIME LIMITATIONS, SAMPLING INSTRUCTIONS AND DEFINITIONS. GFP 7/2013

Allalyst		FOR TEST
RESUL	TS	
MEMBRANE FILTE	R / COLILERT	
DIRECT COUNT:	COLONI	SECULED
ADJUSTED COUNT:	COLONIES/10	DOML CEC
TOTAL COLIFORM: AB	SENT PRESENT	202
FECAL COLIFORM: AB	SENT PRESENT	- SS / /
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PRESENCE OF COLIFOR COMPLIANCE WITH MININGSTANDARDS.	MS INDICATE NON- NUM DRINKING WATE	17.
☐ Compliance ☐ Non-C	ompliance 🗀 Invali	d a





Document must be filed electronically.
Paper documents are not accepted.
Fees & forms are subject to change.
For more information or to print copies of filed documents, visit www.sos.state.co.us.

Colorado Secretary of State

Date and Time: 09/04/2016 11:41 AM

ID Number: 20141584637

Document number: 20161604542

Amount Paid: \$10.00

ABOVE SPACE FOR OFFICE USE ONLY

#### **Periodic Report**

filed pursuant to §7 90 301, et seq. and §7 90 501 of the Colorado Revised Statutes (C.R.S)

ID number:	20141584637			
Entity name:	Chris Janusz Minerals, LLC			
Jurisdiction under the law of which the entity was formed or registered:	Colorado			
1. Principal office street address:	3644 Highway 82	et name and numbe	r)	
	Glenwood Springs	CO	81601	
	(City)		(Postal/Zip Code) States	
	(Province – if applicable)	(Country -	if not US)	
2. Principal office mailing address: (if different from above)	(Street name and no	umber or Post Office	e Box information)	
	(City)	(State)	(Postal/Zip Code)	
	(Province - if applicable)	(Country -	- if not US)	
3. Registered agent name: (if an individual)	Janusz	Christopher (First)	M. (Middle) (Suffix)	
or (if a business organization)	(Last)	(First)	(Minute) (Signs)	
4. The person identified above as registere	d agent has consented to b	eing so appoin	ted.	
5. Registered agent street address:	3644 Highway 82	eet name and numbe		
	(Stre	et name ana numbe		
	Glenwood Springs	СО	81601	
	(City)	(State)	(Postal/Zip Code)	
6. Registered agent mailing address: (if different from above)	(Street name and nu	ımber or Post Office	e Box information)	
	(City)	(State)	(Postal/Zlp Code)	
	(Province – if applicable)	(Country – if	not US)	

#### Notice:

Causing this document to be delivered to the secretary of state for filing shall constitute the affirmation or acknowledgment of each individual causing such delivery, under penalties of perjury, that the document is the individual's act and deed, or that the individual in good faith believes the document is the act and deed of the person on whose behalf the individual is causing the document to be delivered for filing, taken in conformity with the requirements of part 3 of article 90 of title 7, C.R.S., the constituent documents, and the organic statutes, and that the individual in good faith believes the facts stated in the document are true and the document complies with the requirements of that Part, the constituent documents, and the organic statutes.

This perjury notice applies to each individual who causes this document to be delivered to the secretary of state, whether or not such individual is named in the document as one who has caused it to be delivered.

7. Name(s) and address(es) of the indi to b

ividual(s) causing the document be delivered for filing:	Janusz	Astrid B	
e desir, order tor annug/	(Last)	(First)	(Middle) (Suffix)
	3642 Highway 82		
	(Street name an	d number or Post Office Bo	x information)
	Glenwood Springs	CO 8160	1
	(City)	(State) United States	(Postal/Zip Code)
	(Province - if applicable)	(Country – if not US)	•
The document need not state the true name or	nd address of more than one individu	ual. However, if you wish to	state the name and address
of any additional individuals causing the doct	iment to be delivered for filing, mari	k this box 🔲 and include	an attachment stating the

#### Disclaimer:

This form, and any related instructions, are not intended to provide legal, business or tax advice, and are offered as a public service without representation or warranty. While this form is believed to satisfy minimum legal requirements as of its revision date, compliance with applicable law, as the same may be amended from time to time, remains the responsibility of the user of this form. Questions should be addressed to the user's attorney.





## Receipt

**Colorado Department of State** <business@sos.state.co.us> To: ajanusz223@gmail.com

Sun, Sep 4, 2016 at 10:43 AM

www.sos.state.co.us

Colorado Secretary of State File Report receipt

Thank you for using our online services. Here is the receipt for your transaction.

Name	Chris Janusz Minerals, LLC
ID number	20141584637
Document number	20161604542
Payment type	CREDIT
Last 4 digits	2680
Amount paid	\$10.00
Date and time	09/04/2016 11:41 AM

Colorado Secretary of State | Business Organizations | 303-894-2200, option 2 | business@sos.state.co.us

**GWS-25** 

## OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

1095

WELL PERMIT NUMBER

APPLICANT

WD 38

DES. BASIN

MD

Lot: 1 & 2 Block: Filing: Subdiv: JANUSZ EXEMPTION

APPROVED WELL LOCATION

GARFIELD COUNTY

1/4 NE

1/4 Section 27

Township 6 S Range 89 W Sixth P.M.

DISTANCES FROM SECTION LINES

Ft. from

Section Line

Ft. from

Section Line

(970) 948-2011

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting:

Northing:

#### PERMIT TO CONSTRUCT A WELL

3642 HIGHWAY 82

CHRISTOPHER M & ASTRID B JANUSZ

GLENWOOD SPRINGS, CO 81601-

#### ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- Approved pursuant to CRS 37-92-602(3)(c) for the relocation of an existing well, permit no. 13563. The old well must be plugged in accordance with Rule 16 of the Water Well Construction Rules within ninety-one (91) days of completion of the new well. The enclosed Well Abandonment Report form must be completed and submitted to affirm that the old well was
- Approved as a well on a residential site(s) of 1.37 acre(s) described as lots 1 & 2, Janusz Exemption, Garfield County. Further identified as 3642 and 3644 Highway 82, Glenwood Springs, CO 81601.
- The use of ground water from this well is limited to fire protection, ordinary household purposes inside not more than two (2) single family dwellings, the watering of poultry, domestic animals and the irrigation of not more than 1,000 square feet of home gardens and lawns.
- The pumping rate of this well shall not exceed 30 GPM.
- Pursuant to Rule 6.2.3 of the Water Well Construction Rules, the well construction contractor shall submit the as-built well location on work reports required by Rule 17.3 within 60 days of completion of the well. The measured location must be accurate to 200 feet of the actual location. The location information must include a GPS location (UTM coordinates) pursuant to the Division of Water Resources' guidelines.

NOTE:

Parcel Identification Number (PIN): 23-2185-271-00-027

NOTE:

Assessor Tax Schedule Number: R060015

pmn 05/14/2015

APPROVED WMC

State Engineer

05-14-2015

EXPIRATION DATE

05-14-2017

Receipt No. 9503963

DATE ISSUED

LWille

#### WELL SHARING COVENANT

THIS WELL SHARING COVENANT ("Covenant") is made and effective as of the 31<sup>st</sup> day of October, 2014.

#### RECITALS

This Covenant is made with reference to the following facts:

- A. Christopher Janusz and Astrid Janusz (collectively, "Januszes") own two parcels of adjacent real property located in Garfield County, Colorado referred to, depicted and described as Lot 1 and Lot 2 on that certain Janusz Exemption Plat recorded in the Clerk and Recorder's Office of Garfield County, Colorado on July 20, 2009 as Reception No. 771770 ("Plat"). Lot 1 and Lot 2 are collectively referred to in this Agreement as the "Lots." The term "Lot" refers without specification to Lot 1 and/or Lot 2 individually.
- B. Janusz is the holder of Well Permit No. 13563 (the "Well Permit") issued by the Colorado Department of Natural Resources, Office of the State Engineer. The Well Permit allows a total maximum pumping rate of 30 g.p.m. and limits the uses of the water produced by the well permitted under Well Permit (the "Well") to ordinary household purposes inside two single family dwellings, the irrigation of 1,000 square feet of lawn and garden, and watering of domestic animals.
  - C. The Well is constructed on and operates from Lot 1.
- D. The water produced by the Well is used for the permitted purposes under the Well Permit on the Lots as of the effective date of this Covenant.
- E. Janusz wishes to memorialize certain rights and restrictions appurtenant to the Lots concerning the use, maintenance, repair and/or improvement of the Well and related pipelines and equipment.
- F. Janusz desires that the appurtenant rights and restrictions set forth in this Covenant be deemed a covenant running with the land.

#### **COVENANT**

- Physical Infrastructure and Grant of Easement.
  - a. The Well has been drilled and is operating on Lot 1 and buried delivery pipes have been installed from the Well to the dwellings on Lot 1 and Lot 2 constructed and in place as of the effective date of this Covenant.

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Well Sharing Covenant Lot 1 and Lot 2, Janusz Exempt Subdivision Page 2 of 7

- b. Janusz hereby makes, establishes, grants and reserves for themselves and for theirs successors and assigns of the Lots a nonexclusive perpetual easement (the "Easement") upon, over, across and beneath the Lots at the location depicted on Exhibit A and described as "Well Easement," which Exhibit is attached hereto and incorporated herein by this reference, for the limited purposes of using, maintaining, repairing, or replacing or improving the Well, delivery pipes, pump, and associated physical improvements. The owner of Lot 2 also may use the Easement for the purposes of transporting persons and equipment to the Well to carry out the limited purposes of the Easement.
- 2. <u>Authorized Use of the Well</u>. The continued use of the Well on the Lots shall be limited to the uses allowed by the Well Permit. Upon the conveyance of title to a Lot, the owners of the Lots subsequent to such title conveyance shall cause the Well Permit to be amended with the Office of the State Engineer to reflect that the Well is owned by the owners of the Lots subsequent to such title conveyance.
- 3. Percentage Allotment of Total Well Production. For so long as the Lots are sharing the Well, each Lot shall be entitled to an equal one-half (1/2) share of the total water flow produced by the Well ("Well Yield"). Well Yield shall be measured in gallons per minute (g.p.m.). In any event, the total Well Yield shall not exceed 30 g.p.m., in compliance with the terms of the Well Permit. Any deficiency in production of the Well below 30 g.p.m. shall be allocated equally between the Lots.
- 4. <u>Conservation</u>. No Lot owner may waste water, and each owner shall exercise prudence and conservation in the use of water to allow for efficient and beneficial use of the Well and to avoid undue burden on the Well pump.
- 5. <u>Cost of Repair, Maintenance and Improvements</u>. From time to time the Well, delivery pipes, and associated facilities will require repair, maintenance and improvements. For so long as the Lots are sharing the Well, the cost of any such repair, maintenance and improvements shall be allocated as follows:
  - a. The cost of any repair, maintenance or improvement to the Well or the delivery pipes that benefits both Lot 1 and Lot 2 shall be allocated equally between the Lots; and
  - The cost of any repair, maintenance or improvement that benefits only one Lot shall be allocated to the benefitted Lot only; and
  - c. Any portion of the Easement that is disturbed while the Easement is being used for the purposes for which the Easement has been granted shall be promptly

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Well Sharing Covenant Lot 1 and Lot 2, Janusz Exempt Subdivision Page 3 of 7

compacted and revegetated, including replacement of trees of the same size and type, grasses and other landscaping, as applicable, with costs for such remediation allocated to the Lot for which the work was undertaken. The owner of Lot 1 shall not install vegetation within the Easement that unreasonably interferes with the rights of the owner of Lot 2 to use the Easement for the purposes for which it has been granted.

- Authority to Perform Repairs, Maintenance and Improvements. If the owner of 6. either Lot reasonably believes that the Well or Well pump requires repair, replacement or maintenance to allow such owner to be able to reliably pump its proportionate share of the maximum Well Yield, then such owner shall provide the other Lot owner written notice of such fact and the estimated cost of the necessary repairs. Following such notice, the Lot owners shall cooperate for the purposes of entering into agreements relating to the required repair, replacement or maintenance and for payment of the costs therefor. If the Lot owners fail to reach an agreement regarding the work that is subject of the notice within fifteen (15) days of receipt of the notice, then the Lot owner providing the notice may independently cause the work to be performed by a licensed well or pump contractor and shall be entitled to reimbursement from the other Lot owner for such work in accordance with Paragraph 9 below and subject to Paragraph 5 above. In the event that emergency repairs or maintenance is required, to the degree practical, the Lot owner initiating the emergency repairs or maintenance will provide reasonable verbal or written notice to the other Lot owner prior to any such emergency repairs or maintenance.
- 7. Costs of Electric Charges. The owner of Lot 2 shall pay to the electricity provider the electric charges attributable to operation of the Well pump. The owner of Lot 1 shall pay monthly to the owner of Lot 2, no later than the fifth day of the month, the amount of fifteen and no/100 Dollars (\$15.00) without notice or demand by the owner of Lot 2. Such payment shall be reasonable compensation to the owner of Lot 2 for that owner's payment of such electrical charges. The owner of Lot 1 may prepay such monthly payments to the extent that such owner chooses. Three years after the effective date of this Covenant, and every third year thereafter, such monthly payment shall increase by 10%. In the event that the owner of Lot 1 prepays any amounts and conveys title to Lot 1 before enjoying the benefits of the pump for a month for which prepayment has been made, such owner shall be entitled to a refund for the applicable prepayment.
- 8. <u>Regulatory Compliance</u>. In the event that any government or judicial authority imposes future requirements or restrictions on the use of the Well, the Lot owners shall comply with such requirements to help ensure supply of water to the Lots. The Lot owners shall equally share the costs associated with such compliance.

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Well Sharing Covenant Lot 1 and Lot 2, Janusz Exempt Subdivision Page 4 of 7

- 9. Payment Terms. Any payment due by one Lot owner to the other Lot owner under this Covenant, including any payment agreement reached hereunder, shall be payable in full within thirty (30) days of a Lot owner's receipt of notice regarding such due payment. If payment is not received by said due date, the Lot owner to whom payment is owed may file a lien for the amount owed against the Lot owned by the owner failing to make timely payment. Said lien shall be perfected by recording in the real property records of Garfield County (a) an accounting of the amount due; (b) a description of the Lot to be charged with such lien sufficient for its proper identification; and (c) a verification by affidavit. Said lien may be foreclosed in any manner provided for by law.
- 10. Storage. Should a Lot owner's share of the Well Yield be insufficient to adequately service the reasonable needs of the owner's Lot, then such owner may construct, on the owner's own Lot, at such Lot owner's sole expense, a water storage facility to store that Lot owner's allocated portion of the Well Yield. Alternatively, the Lot owners may agree to construct, own and operate a joint water storage facility, in which case this Covenant shall be amended to set forth the terms and conditions of the construction, ownership and operation of such joint storage facility.
- 11. New Well. In the event that a Lot owner's share of the Well Yield is insufficient to adequately service the reasonable needs of the owner's Lot, then such owner may, but is not required to, construct on the owner's own Lot, at such owner's sole expense, as permitted by law, a new well to supply water only to that owner's Lot. In the event that a Lot owner constructs a new well, such owner shall have a licensed plumber plug the historic connection between all structures on the owner's Lot and the Well so that water from the Well can no longer be delivered or used on that owner's Lot. Upon connection of a new well to the structures it is intended to serve and plugging of the historic connection to the Well from the newly connected structures, the Lot owners shall repeal and terminate this Covenant. Any such repeal and termination must be consented to in writing by any party holding a lien on a Lot.
- 12. <u>Well Failure</u>. In the event that the Well should ever run dry or fail for any reason, the Lot owners may either redrill the Well or drill a new well. In the event that the Lot owners cannot agree on the proper remedy for a well failure, the Lot owners shall mutually select a nonbiased third-party with experience in well drilling who shall render a decision that will be binding on the Lot owners. In the event the Well is redrilled, or a new well is drilled, this Covenant shall be amended to reflect any change in the terms of the Well Permit or the terms of a new well permit.

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Well Sharing Covenant Lot 1 and Lot 2, Janusz Exempt Subdivision Page 5 of 7

- 13. <u>Indemnification</u>. To the extent permitted by applicable law, each Lot owner (each an "indemnifying owner") shall indemnify, defend and hold the other Lot owner (each an "indemnified owner") harmless from and against all losses, claims, demands, liabilities, injuries, damages and expenses, including, without limitation, reasonable attorneys' fees and court costs, that an indemnified owner may suffer or incur as a result of the use, occupancy and possession of the Easement by the indemnifying owner, its agents, visitors, invitees, licensees, successors and assigns or by reason of breach of this Covenant.
- 14. <u>No Public Dedication</u>. Nothing contained in this Covenant will be deemed to be a dedication of any portion of the Easement to or for the general public or for any public purpose whatsoever; it being the intent of Janusz that the Easement is and shall continue to be private.
- Covenant Running With the Land. Each provision of this Covenant, and any 15. agreement, promise, covenant and undertaking to comply with each provision of the Covenant are related to and touch and concern the land comprising the Lots. As such, this Covenant shall be deemed a covenant running with the land and shall be a burden upon the title to the Lots for the benefit of each Lot. A Lot owner's rights and obligations under this Covenant may not be conveyed separately from title to the owner's Lot, and the conveyance of title to a Lot shall automatically convey the rights and obligations under this Covenant of the Lot owner making such conveyance. As such, if any Lot owner conveys all of its interest in a Lot, such Lot owner shall thereupon be released and discharged from any and all obligations arising under this Covenant after the conveyance of title, but such Lot owner shall remain liable for all obligations arising under this Covenant prior to the conveyance of title. Anyone who acquires title to a Lot (including, without limitation, anyone who acquires its interest by foreclosure, trustee sale or otherwise) shall be liable for all obligations arising under this Covenant after the date that such person or entity acquires title to a Lot.
- 16. <u>Non-Merger of Easement</u>. Irrespective of the ownership of the Lots, the Easement created by this Covenant shall not be deemed to have merged into the title of either Lot.
- 17. Remedies. In the event of any violation or threatened violation by any Lot owner of any of the provisions of this Covenant, the owner not in violation shall have the right to enjoin such violation or threatened violation by proceeding in the District Court of Garfield County. The right of injunction shall be in addition to all other remedies set forth in this Covenant or as provided by law.

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Well Sharing Covenant Lot 1 and Lot 2, Janusz Exempt Subdivision Page 6 of 7

- 18. <u>Waiver</u>. The failure of a Lot owner to insist upon strict performance of any of the provisions contained in this Covenant shall not be deemed a waiver of any rights or remedies that such owner may have, and shall not be deemed a waiver of any subsequent breach or default of the performance by the other Lot owner of any of the obligations contained in this Covenant.
- 19. Attorneys' Fees. In the event a Lot owner initiates or defends any legal action or proceeding to enforce or interpret any of the terms of this Covenant, the Lot owner prevailing in any such action or proceeding shall be entitled to recover from the non-prevailing Lot owner in any such action or proceeding its reasonable costs and attorneys' fees, including its reasonable costs and attorneys' fees on any appeal.
- 20. <u>No Partnership Created</u>. The provisions of this Covenant are not intended to create, nor shall they be in any way interpreted or construed to create, a joint venture, partnership, or any other similar relationship between Lot owners.
- 21. Estoppel Certificate. Each Lot owner shall, within fifteen (15) days of receipt of written request from the other Lot owner, certify in writing for a prospective purchaser or lienholder that this Covenant is in full force and effect and that the owner requesting such certification is not in default of any of the terms, covenants, conditions, or agreements contained in this Covenant (or, if a default does exist, specifying the nature of such default).
- 22. <u>Term.</u> This Covenant shall continue in perpetuity, as the same may be amended, unless repealed in accordance with the terms hereof.
- 23. <u>Notices</u>. All notices to be given hereunder shall be in writing, and may be given, served or made by depositing the same in the United States mail properly addressed, postage prepaid, for delivery by certified mail with return receipt requested, or by delivering the same in person to an owner or the owner's authorized representative. Notice deposited in the mail in accordance with the provisions of this Paragraph 23 shall be effective on the third day following the postmark date of such notice, or when actually received, whichever is earlier.
- 24. <u>Headings</u>. The headings of the various paragraphs of this Covenant have been inserted for reference only and shall not have the effect of modifying, amending or changing the express terms and provisions of this Covenant.
- 25. <u>Severability</u>. Invalidity or unenforceability of any provision of this Covenant in whole or in part shall not affect the validity or enforceability of any other provision or any valid and enforceable part of a provision of the Covenant.

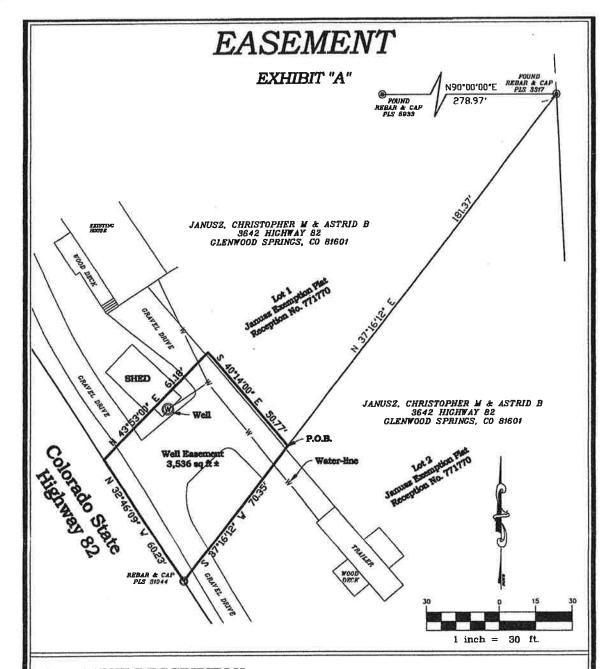
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Well Sharing Covenant Lot 1 and Lot 2, Janusz Exempt Subdivision Page 7 of 7

- 26. <u>Recordation</u>: Upon execution by Janusz, this Covenant and any amendments thereto shall be recorded in the records of the Garfield County Clerk and Recorder.
- 27. Governing Law. This Covenant shall be governed by and construed under Colorado law.

IN WITNESS WHEREOF, Janusz has executed this Covenant as of the effective date.
Christopher Janusz  Astrid Janusz  .
STATE OF COLORADO ) ) ss. COUNTY OF GARFIELD )
Subscribed and sworn to before me this 31st day of October, 2014, by Christopher Janusz
ANGELIQUE PETTERSON Notary Public State of Colorado Notary Public
My commission expires: $1/24/2015$
STATE OF COLORADO ) ) ss. COUNTY OF GARFIELD )
Subscribed and sworn to before me this 31st day of October, 2014, by Astrid Janusz.
ANGELIQUE PETTERSON Notary Public State of Colorado Notary Public
My commission expires: 1/24/2015



#### EASEMENT DESCRIPTION

A PARCEL OF LAND FOR THE PURPOSE OF A WELL EASEMENT SITUATE IN THE E1/2NE1/4 OF SECTION 27, TOWNSHIP 6 SOUTH, RANGE 89 WEST OF THE 6TH P.M., COUNTY OF GARFIELD, STATE OF COLORADO. ALL BEARINGS RELATIVE TO A BEARING OF N90°00'00"E BETWEEN THE NORTHWEST CORNER OF LOT 1, JANUSZ EXEMPTION PLAT, A REBAR AND CAP LS NO. 5933 IN PLACE AND THE NORTHEAST CORNER OF SAID LOT 1, A REBAR AND CAP LS NO. 3317 IN PLACE. SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID LOT 1; THENCE S37°16'12"W 181.37 FEET TO A POINT ON THE SOUTHEASTERLY BOUNDARY LINE OF SAID LOT 1, THE TRUE POINT OF BEGINNING; THENCE ALONG SAID SOUTHEASTERLY BOUNDARY LINE S37°16'12"W 70.35 FEET; THENCE ALONG THE SOUTHWESTERLY BOUNDARY LINE OF SAID LOT 1 N32°46'09"W 60.23 FEET; THENCE DEPARTING SAID SOUTHWESTERLY BOUNDARY LINE N43°53'00"E 61.18 FEET; THENCE S40°14'00"E 50.77 FEET TO THE POINT OF BEGINNING. SAID PARCEL OF LAND CONTAINING 3,536 SQUARE FEET; MORE OR LESS.

Scott R. Blackard P.LS. 38342

THE SEXTON SURVEY COMPANY 127 E. 5TH STREET RIFLE CO. 81650 970-625-3711

> DATE: 10/13/14 JOB NO.14084 WELL EASE

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY AN ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON. Rev. 03/13

## APPLICATION FOR WATER ALLOTMENT CONTRACT BASALT WATER CONSERVANCY DISTRICT

1.	Applicant(s) Contact Information	
	a. Name: 6 19 11 5 3 19 19 4 5 2 4 4 5 4 4 19 19 19 19 19 19 19 19 19 19 19 19 19	
	b. Mailing Address: 3/4/4 M/18 Y 84 CCERTERS - FRANCE \$160	1

- c. Street Address: A A M
- d. Telephone Numbers: 1116 1115 4 (11
- e. Email Address: ( \*\* )7\*\*\*\*\*\*\* 12 3 ( £ /\* \*\*\* ) ( = )
- f. If Applicant is represented by an Attorney, please provide the Attorney's contact information, including name, address, telephone, and email:

1 11

g. Emergency Local Contact Information, including name, address, telephone, and email:

Rayman Brings OFF - 9775

h. Contact Information of property manager, caretaker, irrigator, system operator, or agent who should be provided a copy of this contract, including name, address, telephone, and email:

HIVE THANKE EAST AS HOUSE

2. Type of land use (development) proposed for water allotment contract (i.e. single family home, subdivision, gravel pit, etc.):

BARR : 018 DIO 1816 6 - 63 7 51617.

3. Legal description and address of property on which District's water rights and/or contract water will be used (attach map and vesting deed with proof of ownership)\*:

LETT + 2 SAKUSZ EXEMPTICA

Basalt Water Conservancy District Water Allotment Application Page 2

	4. Elevation of property: 6-7,000 ft., 7-8,000 ft., 8-9,000 ft.
į	5. Name and legal description of water supply diversion point(s):
	Name of Diversion 3776 - 100 -
	Type of Diversion (e.g., a well, spring, ditch, pipeline, etc.)
	Legal Description: A Quarter, Quarter, Section 77, Township
	N / S, Range E / W, of the 6th Principal Meridian, at a location
	feet from the N Section line and feet
	from the _/ Section line.
	UTM Coordinates (NAD 83):
	Northing:
	Easting:
	Zone 12/ Zone 13.
	If diversion point is a well, please provide the Well Permit No. 15 6.
	Is the well operational/active? Yes, No
	Is there currently an operating well meter? Yes, No
	Notice: A valid well permit with operating well meter will be required under the contract.
6.	Legal Water Supply: (please check one)
	Applicant requests consideration by the District to be included in the District's Umbrella Plan for Augmentation decreed in Case No. 02CW77.*
	*Note: Certain applicants may qualify to be included in the District's Umbrella Plan at the District's discretion. In order to be included in the District's Umbrella Plan, the Applicant's depletions must occur within the District's defined "Area A" and the Applicant must

### **VERIFICATION**

STATE OF Colorado )				
STATE OF Colorado )  COUNTY OF Carfaeld )				
I, <u>Katherine Mac</u> (name of Applicant or Applicant's duly authorized representative), being first duly sworn, upon oath, depose and state as follows:				
<ol> <li>I am the Applicant or a duly authorized officer, manager, agent or attorney-in-fact for the Applicant for this Application for Water Allotment Contract;</li> <li>I have read and know the contents of this Application;</li> <li>The information contained herein is an accurate and complete description of the Applicant's intended use of the Basalt Water Conservancy District's water rights;</li> <li>The Applicant acknowledges that the accuracy and truth of all statements in this Application are conditions of approval of this Application by the Basalt Water Conservancy District and of the Contract to be made pursuant to such approval; and</li> <li>I acknowledge that this application shall be subject to the District's Water Allotmen Contract as approved and issued by the District.</li> </ol>				
Date: <u>+/6/18</u> By:				
Print Name: Katherine Mac				
Title:				
Subscribed and sworn before me this \( \( \text{day of } \) \( \text{Apr.} \) \( \text{20\geq} \) by \( \text{fatherine Mac} \).				
Witness my hand and seal.				
My commission expires: $\frac{1}{4}$				
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#### **QUITCLAIM MINERAL DEED**

**THIS DEED** is dated October 31, 2014, and is made between CHRISTOPHER JANUSZ AND ASTRID JANUSZ (collectively, "Grantor"), and ASTRID JANUSZ MINERALS, LLC, a Colorado limited liability company ("Grantee").

WITNESS, that the Grantor, for and in consideration of the sum of Ten Dollars (\$10.00) cash in hand paid and other good and valuable consideration, the receipt of which is hereby acknowledged, does hereby remise, release, sell and QUITCLAIM unto the Grantee, and the Grantee's successors and assign, forever, all the right, title, interest, claim and demand which the Grantor has in and to:

One-half (1/2) of all of the oil, gas, hydrocarbons and other minerals in and under, and that may be produced from, the following described lands situated in Garfield County, State of Colorado:

A parcel of land situated in the E ½ of the NE ¼ of Section 27, Township 6 South, Range 89 West of the 6<sup>th</sup> P.M., more particularly described as follows:

BEGINNING AT A POINT ON THE EAST LINE OF SAID SECTION 27, WHENCE THE NE CORNER OF SAID SECTION 27 BEARS N2°54'W A DISTANCE OF 1057.83 FEET;

THENCE WEST 289.25 FEET TO THE EASTERN LINE OF THE D & R.G.W. RAILROAD;

THENCE SOUTHERLY 302.5 FEET ALONG THE EASTERLY LINE OF THE D & R.G.W.:

THENCE WEST 85.1 FEET ALONG THE SOUTHERLY LINE OF THE D &: R.G.W. RAILROAD TO THE INTERSECTION WITH THE EASTERLY LINE OF THE D. & R.G.W. RAILROAD;

THENCE S31°26'E 90.25 FEET ALONG THE EASTERLY LINE OF THE D. & R.G.W. RAILROAD TO THE INTERSECTION WITH THE EASTERLY LINE OF STATE HIGHWAY NO. 82;

THENCE S55°00'E 247.8 FEET ALONG THE EASTERLY LINE OF STATE HIGHWAY NO. 82, TO THE INTERSECTION WITH THE EAST LINE OF SAID SECTION 27:

THENCE N2°54'W 481.84 FEET ALONG THE EAST LINE OF SAID SECTION 27 TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM A TRACT OF LAND SITUATED IN THE SE ¼ OF THE NE ¼ OF SECTION 27, TOWNSHIP 6 SOUTH, RANGE 89 WEST OF THE SIXTH PRINCIPAL MERIDIAN AND MORE FULLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NE CORNER OF SAID SE ¼ OF THE NE ¼;

l (we)	Richard Backe ja			sta	ate as follows:
1,,	the NE 1/4 of the NE 1/4, S	Section $2$	<u>7</u> , Tow	nship <u>6</u> , Ra	inge <u>\$9</u> .
	easement to the following well:				
Pe	rmit# 1/4 1/4 Sec.	Twp.	Rng.	Actual Distance from N/S Sec. Line	Actual Distance from E/W Sec. Line
				ft.	ft.
2.	I (we) have been apprised that	Chris	Janus	52	, the
	present owners of a parcel of la	and in the	NE 1	√4 of the <u>N ∈</u> 1/4	, Section 27,
	Township <u>(S</u> , Range <u>\$9</u> extend the use of an existing w well is set forth in the well per application that was submitted receipt no.	vell. I (we rmit applied to the St	x74 P ) also und cation, ar cate Engli	P.M., desire to dri derstand that the nd that I (we) ha neer and receipte	ill a new well or purpose of such ve reviewed the ed by him under
3.	The proposed location for the well.	subject w	ell will b	e 600 feet or les	s from my (our)
4.	By this statement I (we) am (an of a well permit for the subject would request that permit issu concerns by the Division or ot (our) well or water right. I (we) may have to participate Section 37-90-137(2), C.R.S.	: well, as s uance not hers that e) am (are	set forth to be post; the propose of	in the referenced poned or denied osed well will man pecifically waiving	because of any terially affect my my (our) right l
	Dated this day of	april	)	2018	ii ii
		Drec	find	Bulj	

Quitclaim Mineral Deed Janusz – Astrid Janusz Minerals, LLC Page 2 of 3

THENCE S2°54'E 176.12 FEET ALONG THE EAST LINE OF SAID SE ¼ OF THE NE ¼ TO THE NORTHERLY LINE OF SAID STATE HIGHWAY NO. 82; THENCE N55°00'W 140 FEET ALONG THE NORTHERLY LINE OF SAID HIGHWAY NO. 82 TO A POINT; THENCE NORTH 30 FEET TO A POINT AND THENCE N58°12'E 124.45 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING THAT PORTION CONVEYED TO THE COLORADO DEPARTMENT OF HIGHWAYS BY ERNEST L. MACTAVISH IN DOCUMENT RECORDED APRIL 17, 1963 IN BOOK 348 AT PAGE 366 AS RECEPTION NO. 221105.

Also known as Lot 1 and Lot 2 of the Janusz Exempt Subdivision according to the Plat thereof recorded in the Clerk and Recorder's Office of Garfield County, Colorado on July 20, 2009 as Reception No. 771770.

TO HAVE AND TO HOLD the same, together with all and singular the appurtenances and privileges thereunto belonging, or in anywise thereunto appertaining, and all the estate, right, title, interest and claim whatsoever of the Grantor, either in law or in equity, to the only proper use, benefit and behoof of the Grantee, and the Grantee's successors and assigns, forever.

IN WITNESS WHEREOF, the Grantor has executed this deed on the date set forth above.

Christopher Janusz

Astrid Janusz

~Acknowledgments Follow~

Pecception H: 355897

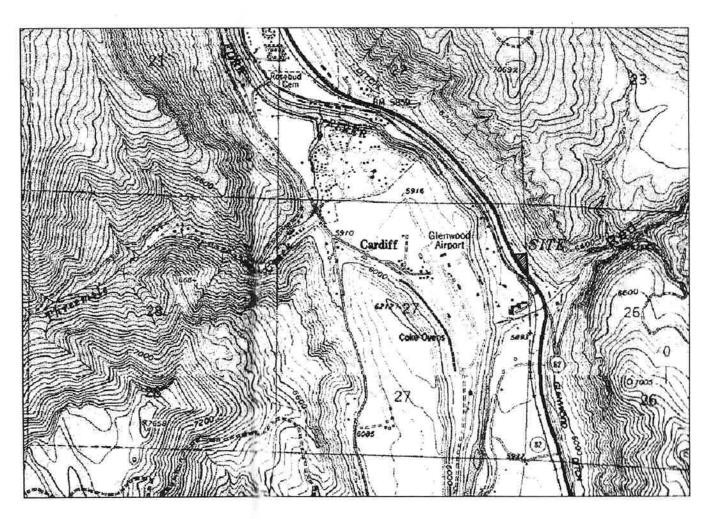
| Jan Alberico | Jan Alberico | Jan Alberico | Janusz | Astrid Janusz | Astrid Janusz | Astrid Janusz | Minerals, LLC |
| Page 3 of 3 |
STATE OF COLORADO	Subscribed and sworn to before me this 31st day of October, 2014, by Christopher Janusz.			
(SEAL)	ANGELIOUE PETTERSON	Notary Public	State of Colorado	Notary Public
STATE OF COLORADO	State of Colorado	State of Colorado	State of Colorado	
STATE OF COLORADO	State of Colorado	State of Colorado		
STATE OF COLORADO	State of Colorado	State of Colorado		
State of Colorado	State of Colorado	State of Colorado	State of Colorado	
State of Colorado	State of Colorado	State of Colorado	State of Colorado	
State of Colorado	State of Colorado			

ANGELIQUE PETTERSON Notary Public State of Colorado

(SEAL)

My commission expires: 1/24/2015

JANUSZ EXEMPTION PLAT L of land situated in, sec. 27, t. 6 s., r. 89 w. of the county of garfield, state of colorado



VICINITY MAP

May 24, 2018

Chris Janusz 3644 Highway 82 Glenwood Springs, CO 81601

RE: Completeness Review Janusz ADU - GAPA-05-18-8646

Dear Mr. Janusz

Thank you for your application for an Accessory Dwelling Unit located at 3644 Highway 82, Glenwood Springs CO 81601. Our completeness review included input from the County Attorney's Office and has identified several items that need to be addressed or clarified prior to a determination of technical completeness. Please respond to the following items:

#### Mineral Ownership Issues:

1. Please explain how the mineral research was completed and if the supplied records are the most up-to-date. The Quitclaim Mineral Deed shows half of the minerals are owned by Astrid Janusz Minerals LLC. An address is needed for that company if available.

#### Site Plan:

2. The Site Plan from 2009 shows a shed in the front yard setback. Please indicate whether or not that shed has been moved or provide a demonstration that the shed complies with required building setbacks.

#### **Grading and Drainage Plan:**

3. Staff understands that a Grading and Drainage plan is being required as part of the Building Permit for the single-family residence. If this is the case, a waiver request may be applied for regarding this submittal requirement. Please indicate in the waiver request that the standard is being addressed as part of the building permit process.

#### **Impact Analysis:**

4. Please respond to the Impact Analysis Section in 4-203 (G) of the Land Use and Development Code.

108 Eighth Street, Suite 401 Glenwood Springs, Colorado 81601 (970) 945-8212

#### Water Plan:

- 5. Please provide a statement detailing what the water supply plan is for the ADU. The well sharing agreement indicates that only 2-single-family dwelling units may use the well.
- 6. Please provide the current well permit for the property as well as any application for a new well permit that has been submitted to the Division of Water Resources.
- 7. Included in the application is an application for a Water Allotment Contract from the Basalt Water Conservancy District, but it is illegible. Please provide a legible version.
- 8. Please provide a draft copy of the updated well-sharing agreement indicating how the well will be shared between the two lots with the addition of the ADU. Please note that the updated well-sharing agreement will be required to be signed-off on by the adjoining property owner.
- 9. A water quality test that meets Land Use and Development Code Standards in 4-203-M1b(5)(c) is required as part of the initial submittal. The applicant may request that the water quality test be completed as a Condition of Approval, however this needs to be submitted as part of the application. Staff also recommends that the applicant remove the copy of the check from the application as any submitted information submitted to this department is available to the public.
- 10. A 4-hour pump test that meets Section 4-203-M1b(5)(a) is required as part of the initial submittal. The applicant may request that the water quantity test be completed as a Condition of Approval, however this needs to be submitted as part of the application..

#### Article 7 Standards:

11. Please respond to standards fully described in Article 7: Division 1-3 of the Land Use and Development Code.

#### Access:

- 12. A traffic study is a required submittal item. Please indicate the estimated Average Daily Trips (ADT) on the road from Highway 82 to the proposed ADU.
- 13. Based on the traffic study, please provide a demonstration of whether or not the access road from Highway 82 to the proposed ADU meet the standards in Table 7-107 of the Land Use and Development Code. If the road does not meet those standards you may apply for a Waiver pursuant to the attached policy.
- 14. The application provided a letter from Dan Roussin of CDOT for the Subdivision Exemption in 2008. While not required staff recommends the applicant contact CDOT to discuss the application.
- 15. The access road appears to cross the property to the southeast. Please provide an access easement for that portion of the road.

#### Landscape Plan

16. It appears based on the submittal that a Landscape Plan is not required, based on ADU's being exempt from Landscape Standards. Please provide a waiver request for this submittal requirement.

#### Development & Improvements Agreement:

17. Based on the scope of the application, it does not appear to require a Development or Improvement Agreement. Please supply a waiver request for both of those submittal requirements.

#### Wastewater Management Plan:

18. It appears, that the new OWTS is designed for 4 bedrooms. Please provide a statement that the ADU is included in this system.

#### **Electronic Copies:**

19. The electronic copy does not include all the information included in the hard copies. Please provide an updated electronic copy that includes all submittals.

Once the above topics are addressed, we can finalize our completeness review and schedule a date for the Director's Decision. Please note that the Garfield County Land Use and Development Code requires that the technical completeness issues be resolved within 60-days of the date of this letter. If not resolved in that timeframe, the application will be deemed withdrawn, unless a request for extension is submitted and approved.

Please feel free to call or request a follow-up meeting with staff to address any questions you may have regarding the above items. You may reach me at <a href="mailto:pwaller@garfield-county.com">pwaller@garfield-county.com</a> or 970-945-1377 ext. 1580.

Sincerely,

Patrick Waller Senior Planner

CHRIS JANUSZ 3644 HWY 82 6 WS CO 81601 948-2011

> TO PAT WALLER SENICR PHANEL AT GCCDP.

DEAR PHT. BN 5-24-18 IN RESPONCE TO YOUR LETTER AND BUR MEETING ON 5-29-18, I AM ADDRESSING THE ISSUES REQUIRING MORE DOCCIMENTATION.

## I, MINELAL OWNERSHIP.

BASED ON THE RAILROAD LAWSUIT AROUND 2002 THRU 2006, RILAIMING ALL MINERAL RIGHT UNDER OR ATTACHE TO RAIL ROAD GAND, MY WIFE AND I FOUGHT TO ESTABLISH THAT ASK THE OWNERS OF BOTH 3642 + 3644 NWY 82 JANUSZ SUBDIVISION LOTS I ANDZ, MINERAL RIGHTS HAD ALWAYS STHYED WITH THE LAND. IN 2006, WE, ASTRID AND I CLAIME SOLE, PERSONAL TITLE OF THE MILERAL RICHT TO THE LAND.

THE ATTACHED DOCUMENT BY THE CO SEC OF STATE DATED 9-4-16 THAT GREW OUR DIVORCE, ASTRID KEPT AND STILL OWNS THE RICHTS TO 3642 HWY 52, AND I AM THE SOLE OWNER OF 3644 HWY 82 6WS CO \$1601.

2. SHEN WILL BE REMOVED

3. WILL REQUEST WANER IF NESSHIARY.

- 4, IMPACT ANALYSIS IS BEING ADPRESSED BY DAUE
  ARGO IN YOUR OFFICE
- 5. EYTRA WATER RICHTS HAVE BEEN APPLIED FOR FROM
  THE BASALT WATER DISTRICT, PLEAS RECALL RECOPING
  APPLICATION AT OUR MEETING.
- 6. SER ATTACHED
- 7. SEF ATTACHED
- 8. SER # 5.
- 9. IN PROCRESS FROM
- 10. OK AT MEETING
- 11. THRU 15, I THINK ALL OK PER MEETING
- 17. IM REPLACEING ONE HOUSE WITH ANOTHER, PLEASE WAIVER

  19. THE DWYS IS DESIGNED FOR FOUR BEDROOMS, THE

  A.D.U. IS INCLUDED IN THIS SYSTEM.
  - 19, I UE TRIED TO GET THIS ALL DONE.
  - 20. PLEASE SEE LETTER FROM JOHN MARTIN DATED 12-31-2008

John Martin Glenwood Springs, CO

> Larry McCown Rifle, CO

Trési Houpt Glenwood Springs, CO



December 30, 2008

To whom it may concern,

After reviewing and researching the records of Garfield County that concern 3642 and 3644 Hwy 82, in Glenwood Springs, Colorado, I have found there has been two separate dwellings on a single parcel of land located within Gartield County and have been recorded as such since mid 1960's. These dwellings were placed on the parcel before Garfield County enacted zoning codes in 1975. The dwellings share a private drive off of Hwy 82, share a well, but have separate ISDS and electrical power and have been issued a separate address. Each dwelling has been and continues to be lived in by two separate families. In 2000, Code enforcement officer for Garfield County, Steve Hackett, reviewed the question, "Could one of these Mobil homes be removed and replaced on this parcel? " His review showed it would be allowed. My opinion: There are two homes on a single parcel and that parcel could be divided into two ownerships, allowing each home owner to own a portion of the parcel.

John Mentin

Garffeld County Commissioner

108 Eighth Street, Suite 213 . Glenwood Springs, CO 81601 (970) 945-5004 • Fax: (970) 945-7785

August 2, 2018

Chris Janusz 3644 Highway 82 Glenwood Springs, CO 81601

RE: Completeness Review Janusz ADU - GAPA-05-18-8646

Dear Mr. Janusz

Thank you for your application for an Accessory Dwelling Unit located at 3644 Highway 82, Glenwood Springs CO 81601. Our completeness review included input from the County Attorney's Office and has identified several items that need to be addressed or clarified prior to a determination of technical completeness. Please respond to the following items:

#### Mineral Ownership Issues:

 Please explain how the mineral research was completed and if the supplied records are the most up-to-date. The Quitclaim Mineral Deed shows half of the minerals are owned by Astrid Janusz Minerals LLC. An address is needed for that company if available. (THIS ITEM IS PENDING COUNTY ATTORNEY OFFICE REVIEW)

#### Water Plan:

- 2. Please provide the application for the new well permit with the Division of Water Resources.
- 3. Included in the application is an application for a Water Allotment Contract from the Basalt Water Conservancy District, but it is illegible. Please provide a legible version.
- 4. Please provide a draft copy of the updated well-sharing agreement indicating how the well will be shared between the two lots with the addition of the ADU. Please note that the updated wellsharing agreement will be required to be signed-off on by the adjoining property owner. Alternatively, you may submit a statement requesting that the updated well-sharing agreement be a Condition of Approval.

5. A 4-hour pump test that meets Section 4-203-M1b(5)(a) is required as part of the initial submittal. The applicant may request that the water quantity test be completed as a Condition of Approval, however this needs to be submitted as part of the application.

#### Access:

- 6. A traffic study is a required submittal item. Please indicate the estimated Average Daily Trips (ADT) on the road from Highway 82 to the proposed ADU.
- 7. Based on the traffic study, please provide a demonstration of whether or not the access road from Highway 82 to the proposed ADU meet the standards in Table 7-107 of the Land Use and Development Code. If the road does not meet those standards you may apply for a Waiver pursuant to the attached policy.
- 8. The access road appears to cross the property to the southeast. Please provide an access easement for that portion of the road.

Once the above topics are addressed, we can finalize our completeness review and schedule a date for the Director's Decision. Please note that the Garfield County Land Use and Development Code requires that the technical completeness issues be resolved within 60-days of the date of this letter. If not resolved in that timeframe, the application will be deemed withdrawn, unless a request for extension is submitted and approved.

Please feel free to call or request a follow-up meeting with staff to address any questions you may have regarding the above items. You may reach me at <a href="mailto:pwaller@garfield-county.com">pwaller@garfield-county.com</a> or 970-945-1377 ext. 1580.

Sincerely,

Patrick Waller Senior Planner FROM CHAIS JANUSZ

RE 8-2-18 LETTER ADU-GAPA-05-18-8646

DEAR PATRIC,

RESPONSE TO ? H! PLEASE SEE ATTACHED 2 PAGE LETTER FROM
THE LAW FIRM KARP NEW HANDON DATED 9-31-2014. PRIOR
TO THIS DATE, A RAILROAD COMPANY FILED SUM TO CLAIM
MINERAL RIGHTS CUNDER THEIR RAIL BEDS. MY PROPERTY USED
TO BURDER THE RAIL BED PRIOR TO HWY 82 BEING BUILT, SO
I GOT INVOLVED, AND THEN DETERMINED MY PROPERTY RETRINED
DWARD SHIP OF THE MINERAL RIGHT RY THE PROPERTY COUNER.

1 HAD THE KARP LAW FIRM RESEARCH MY LAND AND PUT THE
3644 ADDRESS IN MY NAME, AT THE SAME TIME, MY EX WIFE,
ASTRIA JADUSZ, 3189 "C" VIA BUENA VISTA, LAGUNA WOODS CA, 92637
AS THE SOLE OWNER OF 3642, HWY 82, GWS CO 81601. THE
SEEDND PAGE 15 THE LATTER DOCUMENT & HAVE PROVING MY
DIDNERSHIP,

#2 - ATTACHED.

43- "

4 - PLANSE NOTE - ADJOINING PROPERTY IS COOLINER OF WATER CONTRACT TIS, AND HAS FULL KNOWLEGE OF WHY I PURCHALED THIS CONTACT FOR BOTH ADDRESS AND LOTS 172.

5, ATTACHED

6. TRAFIC STUDY - THE EXISTING DRIVWAY WAS BUILT OVER 40 YEARS AGO IN ORDER TO IDSTALL HWY 82. THE DRIVWAY IS AT ATRAFFIC LIGHT FOR RASY ACCESS, THERE HAVE BEEN THREE HOMES ON THIS DRIVE AND WITH THE NEW A,D,U., THERE WILL BE A AVERACE OF 40 VEHICLES A DAY. THE 7. DRIVEWAY TO THE A.D.U. MEETS AND RECEDOS ALL STANDARDS OF SECTION AND TAIRLE 7-107. SEE SITE PLAN. DRIVE RYCEFDS 8. SEE ATTACHED

# MINUTES OF MEMBERS ACTIONS IN THE ORGANIZATION OF CHRIS JANUSZ MINERALS, LLC A COLORADO LIMITED LIABILITY COMPANY

These Minutes are executed in lieu of an organizational meeting of Chris Janusz Minerals, LLC, a Colorado limited liability company (the "Company") effective October 31, 2014, at 201 14<sup>th</sup> Street, Suite 200, Glenwood Springs, Colorado 81601.

The undersigned, being the sole Member of the Company, took the following actions:

- 1. <u>Articles of Organization and Certificate</u>. The Articles of Organization attached to these Minutes as Exhibit "A", and certified by the Secretary of State, were approved pending correction of the entity name. The Articles of Amendment attached to these Minutes as Exhibit "B", and certified by the Secretary of State, were approved as setting forth the correct entity name.
- 2. <u>Operating Agreement</u>. The operations of the Company will be wholly governed by the provisions of the Colorado Limited Liability Company Act. As such, the Company shall not initially have an Operating Agreement.
- 3. <u>Principal Place of Business</u>. The principal place of business of the Company shall be 3644 Highway 82, Glenwood Springs, Colorado 81601.
- 4. <u>Discharge of Organizer</u>. The Organizer of the Company was and shall be forever discharged and indemnified by the Company from and against any expense or liability actually incurred by him by reason of having been the Organizer of the Company.
- 5. <u>Membership</u>. The sole Member of the Company shall be Chris Janusz who shall have one hundred percent (100%) Membership Interest in the Company.
- 6. <u>Waiver of Notice</u>. The undersigned, constituting the sole Member of the Company, does hereby waive any notice required for the holding of the organizational meeting.
- 7. <u>Tax Status</u>. The Company will adopt the default tax status for companies of this classification.
- 8. <u>Approval of Real Property Contribution</u>. The Company is authorized to accept a contribution of real property interests and to do all acts necessary to effect such acceptance.
- 9. <u>Authority to Affect Title to Real Property</u>. The undersigned is authorized to affect title to real property on behalf of the Company.



Document must be filed electronically.

Paper documents are not accepted.

Fees & forms are subject to change.

For more information or to print copies of filed documents, visit www.sos.state.co.us.

Colorado Secretary of State

Date and Time: 09/04/2016 11:41 AM

ID Number: 20141584637

Document number: 20161604542

Amount Paid: \$10.00

ABOVE SPACE FOR OFFICE USE ONLY

#### Periodic Report

filed pursuant to §7-90-301, et seq. and §7-90-501 of the Colorado Revised Statutes (C.R.S)

ID number:	20141584637				
Entity name:	Chris Janusz Minerals, LLC				
Jurisdiction under the law of which the entity was formed or registered:	Colorado				
1. Principal office street address:	3644 Highway 82				
	(Stre	eet name and numbe	r)		
	Glenwood Springs	СО	81601		
	(City)	(State) United	(Postal/Zip Code) States		
	(Province – if applicable)	(Country -			
2. Principal office mailing address:					
(if different from above)	(Street name and nu	ımber or Post Office	e Box information)		
	(City)	(State)	(Postal/Zip Code)		
	(Province – if applicable)	(Country -	- if not US)		
3. Registered agent name: (if an individual)	Janusz	Christopher	M.		
(10 to 10 to	(Last)	(First)	(Middle) (Suffix)		
or (if a business organization)					
4. The person identified above as registere	d agent has consented to b	eing so appoin	ted.		
5. Registered agent street address:	3644 Highway 82				
	(Stree	et name and numbe	r)		
	Glenwood Springs	CO	81601		
	(City)	(State)	(Postal/Zip Code)		
<ol> <li>Registered agent mailing address: (if different from above)</li> </ol>	(Street name and nu	mber or Post Office	Box information)		
	(City)	(State)	(Postal/Zip Code)		
	(Province – if applicable)	(Country – if r	not US)		

#### WELL SHARING COVENANT

THIS WELL SHARING COVENANT ("Covenant") is made and effective as of the 31st day of October, 2014.

#### RECITALS

This Covenant is made with reference to the following facts:

- A. Christopher Janusz and Astrid Janusz (collectively, "Januszes") own two parcels of adjacent real property located in Garfield County, Colorado referred to, depicted and described as Lot 1 and Lot 2 on that certain Janusz Exemption Plat recorded in the Clerk and Recorder's Office of Garfield County, Colorado on July 20, 2009 as Reception No. 771770 ("Plat"). Lot 1 and Lot 2 are collectively referred to in this Agreement as the "Lots." The term "Lot" refers without specification to Lot 1 and/or Lot 2 individually.
- B. Janusz is the holder of Well Permit No. 13563 (the "Well Permit") issued by the Colorado Department of Natural Resources, Office of the State Engineer. The Well Permit allows a total maximum pumping rate of 30 g.p.m. and limits the uses of the water produced by the well permitted under Well Permit (the "Well") to ordinary household purposes inside two single family dwellings, the irrigation of 1,000 square feet of lawn and garden, and watering of domestic animals.
  - C. The Well is constructed on and operates from Lot 1.
- D. The water produced by the Well is used for the permitted purposes under the Well Permit on the Lots as of the effective date of this Covenant.
- E. Janusz wishes to memorialize certain rights and restrictions appurtenant to the Lots concerning the use, maintenance, repair and/or improvement of the Well and related pipelines and equipment.
- F. Janusz desires that the appurtenant rights and restrictions set forth in this Covenant be deemed a covenant running with the land.

#### **COVENANT**

- 1. Physical Infrastructure and Grant of Easement.
  - a. The Well has been drilled and is operating on Lot 1 and buried delivery pipes have been installed from the Well to the dwellings on Lot 1 and Lot 2 constructed and in place as of the effective date of this Covenant.

ion#: 855899 2014 03:21:13 PM Jean Alberico Pec Fee: \$46 00 Doc Fee: 0.00 GARFIELD COUNTY CO

Well Sharing Covenant Lot 1 and Lot 2, Janusz Exempt Subdivision Page 2 of 7

- b. Janusz hereby makes, establishes, grants and reserves for themselves and for theirs successors and assigns of the Lots a nonexclusive perpetual easement (the "Easement") upon, over, across and beneath the Lots at the location depicted on Exhibit A and described as "Well Easement," which Exhibit is attached hereto and incorporated herein by this reference, for the limited purposes of using, maintaining, repairing, or replacing or improving the Well, delivery pipes, pump, and associated physical improvements. The owner of Lot 2 also may use the Easement for the purposes of transporting persons and equipment to the Well to carry out the limited purposes of the Easement.
- 2. <u>Authorized Use of the Well</u>. The continued use of the Well on the Lots shall be limited to the uses allowed by the Well Permit. Upon the conveyance of title to a Lot, the owners of the Lots subsequent to such title conveyance shall cause the Well Permit to be amended with the Office of the State Engineer to reflect that the Well is owned by the owners of the Lots subsequent to such title conveyance.
- 3. Percentage Allotment of Total Well Production. For so long as the Lots are sharing the Well, each Lot shall be entitled to an equal one-half (1/2) share of the total water flow produced by the Well ("Well Yield"). Well Yield shall be measured in gallons per minute (g.p.m.). In any event, the total Well Yield shall not exceed 30 g.p.m., in compliance with the terms of the Well Permit. Any deficiency in production of the Well below 30 g.p.m. shall be allocated equally between the Lots.
- Conservation. No Lot owner may waste water, and each owner shall exercise
  prudence and conservation in the use of water to allow for efficient and beneficial use of
  the Well and to avoid undue burden on the Well pump.
- 5. Cost of Repair, Maintenance and Improvements. From time to time the Well, delivery pipes, and associated facilities will require repair, maintenance and improvements. For so long as the Lots are sharing the Well, the cost of any such repair, maintenance and improvements shall be allocated as follows:
  - a. The cost of any repair, maintenance or improvement to the Well or the delivery pipes that benefits both Lot 1 and Lot 2 shall be allocated equally between the Lots; and
  - b. The cost of any repair, maintenance or improvement that benefits only one Lot shall be allocated to the benefitted Lot only; and
  - c. Any portion of the Easement that is disturbed while the Easement is being used for the purposes for which the Easement has been granted shall be promptly

## **VERIFICATION**

STATE OF COLOROGO )
STATE OF Colorado )  COUNTY OF Carfael )
I, <u>Katherine Mac</u> (name of Applicant or Applicant's duly authorized representative), being first duly sworn, upon oath, depose and state as follows:
<ol> <li>I am the Applicant or a duly authorized officer, manager, agent or attorney-in-fact for the Applicant for this Application for Water Allotment Contract;</li> <li>I have read and know the contents of this Application;</li> <li>The information contained herein is an accurate and complete description of the Applicant's intended use of the Basalt Water Conservancy District's water rights;</li> <li>The Applicant acknowledges that the accuracy and truth of all statements in this Application are conditions of approval of this Application by the Basalt Water Conservancy District and of the Contract to be made pursuant to such approval; and</li> <li>I acknowledge that this application shall be subject to the District's Water Allotment Contract as approved and issued by the District.</li> </ol>
Date: $\frac{1}{4}/6/18$ By:
Print Name: Katherine Mac
Title:
Subscribed and sworn before me this (e day of Hor) 2018 by
Witness my hand and seal.
Notary Public
My commission expires: $4/4/2$

Rev. 03/13

## APPLICATION FOR WATER ALLOTMENT CONTRACT BASALT WATER CONSERVANCY DISTRICT

1. Applicant(s) Contact Information

a. Name: CHKIS TANUSZ "LOT2" + KATHERN MAC "LOTI"

b. Mailing Address: 3644 HWY 82 CLENWOOD SPANOS CO 81601

c. Street Address: SAME

d. Telephone Numbers: 9770 948 2611

e. Email Address: CMTANUSZ 123 & GALAIL, COM

f. If Applicant is represented by an Attorney, please provide the Attorney's contact information, including name, address, telephone, and email:

NA

g. Emergency Local Contact Information, including name, address, telephone, and email:

RICHARD BACHE 379-4198

h. Contact Information of property manager, caretaker, irrigator, system operator, or agent who should be provided a copy of this contract, including name, address, telephone, and email:

CHRIS VANUSZ SANE AS AROVE

2. Type of land use (development) proposed for water allotment contract (i.e. single family home, subdivision, gravel pit, etc.):

MINOR SUBDIVISION-LOT SPLIT

3. Legal description and address of property on which District's water rights and/or contract water will be used (attach map and vesting deed with proof of ownership)\*:

LOT 1+2 JANUSZ EYEMPTION

Basalt Water Conservancy District Water Allotment Application Page 2

	4. Elevation of property: 6–7,000 ft., 7–8,000 ft., 8–9,000 f
	5. Name and legal description of water supply diversion point(s):
	Name of Diversion TANUSZ MAR WELL
	Type of Diversion (e.g., a well, spring, ditch, pipeline, etc.
	Legal Description: WE Quarter, NE Quarter, Section 27, Township GN / S) Range 89 E / W) of the 6th Principal Meridian, at a location of the feet from the N Section line and 100 feet from the E Section line.
	UTM Coordinates (NAD 83): Northing: 437 553228
	Easting: <b>3</b> 09 9 9 0 5 3
	If diversion point is a well, please provide the Well Permit No. 13563 A.  Is the well operational/active? X Yes, No  Is there currently an operating well meter? X Yes, No
	Notice: A valid well permit with operating well meter will be required under the contract.
6.	Legal Water Supply: (please check one)
	X Applicant requests consideration by the District to be included in the District's Umbrella Plan for Augmentation decreed in Case No. 02CW77.*
	*Note: Certain applicants may qualify to be included in the District's Umbrella Plan at the District's discretion. In order to be included in the District's Umbrella Plan, the Applicant's depletions must occur within the District's defined "Area A" and the Applicant must

COLORADO DIVISION OF WATI	ER RESOURCES	Office	ENED			Form GWS	-44 (7/2012)
DEPARTMENT OF NATURAL RI 1313 SHERMAN ST., Ste 821, DI	ENVER, CO 80203	MEGI	LIVEL				
Main: (303) 866-3581 Fax: (303) 86	6-2223 dwrpermitsonline@state.co.us	l	<b>0.0</b> 000				
RESIDENTIAL Note: Also	use this form to apply for livestock watering	JUL (	3 0 2011				
Water Well Permit A	pplication Da	relan 5 W	ater Resources				
Review form instructions prior to co	ompleting form.		od Springs				
	npleted in black or blue ink or typed.	-	, ,				
1. Applicant Information  Name(s) KATHFAIN WAG	<u>/</u>	6. Use	Of Well (che	ck applic	able box	es)	
The state of the s			ructions to deterr				fy
CHAIS JANUSZ	2	□ A, C	Ordinary househo (no outside use)	ld use in or	ne single-fa	mily dwelling	
Mailing address 3644 HWY 82		/	With the second	الم ما مما الما	to 2 single	fomilie desalls	
City		E 6. C	Ordinary househo Number of dwell	Inas: 2	- +2 A	4 PUS	iys.
GLENWOOD SPRINGS CO	5/60/	1	Home garden/la	C-221			<b>ə</b> .
Telephone (w/area code) E-mail 970, 948-2011			area irrigated	2000	sq.	ft. 🖂 acre	J.
2. Type Of Application (check	( applicable boxes)	1 0	Domestic anima	I watering -	- (non-com	mercial)	
☐ Construct new well	☐ Change source (aquifer)	<sup>†</sup> □ c. ι	_ivestock waterin	g (on farm/	ranch/rang	e/pasture)	
Replace existing well	Reapplication (expired permit)	7. Well	Data (propos	sed)	-		
Use existing well Change or increase use	☐ Rooftop precip. collection ☐ Other:	Maximum p	umping rate			nt to be withdrawn	
3. Refer To (if applicable)	_ 000.	/:		gpm	1,6	9	acre-feet
Well permit #	Water Court case #	Total depth	139	feet	Aquifer 7 6	IB	
13563 A Designated Basin Determination #	/ 3 Well name or #	8. Wat	er Supplier				
Designated Dasit Determination in			arcel within bound	daries of a	water servi	ce area?[ Y	ESE NO
4. Location Of Proposed Wel	I (Important! See Instructions)	If yes, pr	ovide name of su	ipplier:			
			e Of Sewage				
Section Township NorS	Range E or W Principal Meridian	Z Sept	ic tank / absorption	on leach fie	ld		
27 6 1	89 0 W 6	-	ral system: Distri	1500			
Distance of well from section lines (section lines and	e typically not property lines) Ft. from□E□W	☐ Vaul	t: Location sewaç	ge to be har	uled to:		
For replacement wells only – distance and direction		1	r (explain)				
h//a fact	Direction		posed Well				
Well location address (Include City, State, Zip)			n or Enter Name ing of false state				
3642 HWY 82 GU	S CO 8/601	degree, v	which is punishal	ole as a cla	ss 1 misde	meanor pursu	ant to C.R.S.
Optional: GPS well location information in UTM for			(13)(a). I have				e contents
Format must be UTM	the system	Sign or ente	ind state that the er name(s) of person(s	submitting ap	plication	euge.	Date (mm/dd/yyyy)
	Easting: 301979	1	les tois	32-1			7-2-18
Units must be Meters  Datum must be NAD83	Northing: 4375528	If signing pr	int name and title	100		i	
Unit must be set to true north Was GPS unit checked for above? YES	Remember to set Datum to NAD83	24	Int name and title	JUST	0	WRER	5
5. Parcel On Which Well Will	Be Located		Use Only				
(You must attach a current	deed for the subject parcel)	USGS map	name		OWR map n	io. Surfi	ace elev.
A. You must check and complete one	of the following:						
Lot 6075 / +2 Block	152 EXEMPTON PLAT		Re	eceipt area	only		
☐ County exemption (attach copy of			Ì				
Name/#	Lot #		i				
	subdivision attach a deed with metes	1					
Parcel less than 35 acres, not in a & bounds description recorded pr	rior to June 1, 1972, and current deed	}	1				
☐ Mining claim (attach copy of deed		1					
☐ Square 40 acre parcel as describe						***************************************	
La contraction of the contractio	metes & bounds description or survey)	AQUAMAP					
Other: (attach metes & bounds de		WE					
B. # of acres in parcel 3/4	Are you the owner of this parcel? YES NO NO	WR CWCB					
D. Will this be the only well on this parcel? YE		TOPO					
		MYLAR				_	
E. State Parcel IO# (optional):		SB5		DIV S	WID 38	<u>З</u> ва г	div



April 13, 2018

Chris Janusz 3644 Hwy 82 Glenwood Springs, Co. 81601

ATTN: Chris

On 4/10/18, a well test was conducted on a well on serving the Janusz Property. The following information was obtained;

Well Depth 130'
Casing Size (7 x 5)"
Standing water level 98.87'
Total test time 4 Hours
Drawdown to 101.58'
Production is greater than 15.3 GPM

This test was conducted with Existing 3/4 Hp pump. The well water level recovered back to 98.7 in 5 Minutes. This is a very good well and could supply water to 2 or more homes. If you have any questions please call me, Raun Samuelson at 970-945-6309.

Sincerely;

Raun E Samuelson Samuelson Pump Co.

MY WAME IS TOM WILLISON

IN THE SE 14 OF THE NW14, SECTION 26 TOWNSHIP 6.05
RAUGE 89, 6TH PM, GARFEND CO, COLOMADO

THE COLORADO STATE HWY DEPARTMENT PUT THE ACCEST
TO MY NEIBORS PROPERTY TO THE MORTH OVER HOYRS
AGO AND I'M IN TOTAL ACREGMENT THAT IT IS OK
WITH ME.

THOM William

DATE- 8-14-18

John Willison

May 17, 2018

Report to.
Ben Elmore
Zancanella & Associates
1011 Grand Ave
Glenwood Springs, CO 81601

Bill to:
Accounts Payable
Zancanella & Associates
1011 Grand Ave.
Glenwood Springs, CO 81601

Project ID: BO39632 ACZ Project ID: L43774

#### Ben Elmore:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 18, 2018. This project has been assigned to ACZ's project number, L43774. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L43774. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 16, 2018. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max Janicek has reviewed and approved this report.



Max janices



Case Narrative

Zancanella Associates

May 17, 2018

Project ID: BO39632 ACZ Project ID: L43774

Comple Research

ACZ Laboratories, Inc. (ACZ) received 1 drinking water sample from Zancanella & Associates on April 18, 2018. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L43774. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holling Thus

All analyses were performed within EPA recommended holding times.

Sample Amelyets

This sample was analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

The Coliforms results for L43774-01 have been qualified with the N1 flag on the extended qualifier report. The chemist noted that the reported count is 0 based on the associated 25mL and 50mL count. The 1mL count displayed potential carryover from preceding sample. Because colony count was 0 for the 25mL and 50mL dilutions, it is believed that there are no coliforms present in the client sample.



Zancanella & Associates

Project ID:

BO39632

Sample ID:

(AS PROVIDED)GREENRAWREDPCREDPCWMREDR

ACZ Sample ID: L43774-01

Date Sampled: 04/17/18 10:00

Date Received: 04/18/18

Sample Matrix: Drinking Water

Inorganic Prep	N-PSS-VARIABLE NICKEL	and the state of the state of	To a second	के शहत	575	Unite	WOL	Frail	10216	145 14951
Paremeter	EPA Molificali	Official	Regult	1111111	CAE	211115	Market Market	HULLI CON	The state of the s	mfm
Total Recoverable Digestion	M200.2 ICP-MS								04/26/18 14:32	
Total Recoverable Digestion	M200.2 ICP								04/24/18 13:21	aeh
Metals Analysis		en harmon dest				ince traini	Similar in Street	**		artela v
Paramagor:	Park Mario	(5)10(400)	1((0.0))]	214(1)	140	110度	.101	201-	Pale 014	CITO (PARTY)
Arsenic, total recoverable	M200.8 ICP-MS	1	0.001	В		mg/L	0.0005	0.002	05/03/18 14:06	mfm
Cadmium, total recoverable	M200.7 ICP	1		U	*	mg/L	0.005	0.02	04/25/18 16:49	dcm
Calcium, dissolved	M200.7 ICP	1	87.0		*	mg/L	0.1	0.5	04/20/18 15:55	aeh
Copper, total recoverable	M200.7 ICP	1		U	*	mg/L	0.01	0.05	04/25/18 16:49	dcm
Iron, total recoverable	M200.7 ICP	1	0.24			mg/L	0.02	0.05	04/25/18 16:49	dcm
Lead, total recoverable	M200.8 ICP-MS	1	0.0002	В		mg/L	0.0001	0.0005	05/03/18 14:06	mfm
Magnesium, dissolved	M200.7 ICP	1	25.6			mg/L	0.2	1	04/20/18 15:55	aeh
Manganese, total	M200.7 ICP	1		U		mg/L	0.005	0.03	04/25/18 16:49	dcm
Sodium, dissolved	M200.7 ICP	1	22.9			mg/L	0.2	1	04/20/18 15:55	aeh
Uranium, total recoverable	M200.8 ICP-MS	1	0.0034			mg/L	0.0001	0.0005	05/03/18 14:06	mfm
Zinc, total recoverable	M200.7 ICP	1		U		mg/L	0.01	0.05	04/25/18 16:49	dcm



Inorganic Analytical Results

Zancanella & Associates

Project ID:

BO39632

Sample ID:

 $(AS\ PROVIDED) GREENRAWREDPCREDPCWMREDR$ 

ACZ Sample ID: L43774-01

Date Sampled:

04/17/18 10:00

Date Received.

04/18/18

Sample Matrix: Drinking Water

Wet Chemis	try
------------	-----

Parameter	EPA Mathea	Dilution	Result	inel	7(0)	Units	1/(10)	(Na)	Date /	Inelive:
Alkalinity as CaCO3	SM2320B - Titration							MULTINETE		MANULANN
Bicarbonate as CaCO3		Ĩ	232		*	mg/L	2	20	04/21/18 0:00	enb
Carbonate as CaCO3		1		U	*	mg/L	2	20	04/21/18 0:00	enb
Hydroxide as CaCO3		1		U	*	mg/L	2	20	04/21/18 0:00	enb
Total Alkalinity		1	232		*	mg/L	2	20	04/21/18 0:00	enb
Chloride	SM4500CI-E	1	28.9		*	mg/L	0.5	2	04/25/18 12:43	las
Coliforms, fecal	SM9222D - Membrane Filter	1	0	Н	*	#/100ml	1	1	04/18/18 16:39	enb
Conductivity @25C	SM2510B	1	725		*	umhos/cm	1	10	04/21/18 3:09	enb
Corrosivity (calc.)	SM 2330 - CaCO3 SI		1.0		*	SI Unit			05/17/18 0:00	calc
Fluoride	SM4500F-C	1	0.33		*	mg/L	0.05	0.3	04/25/18 9:31	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		323			mg/L	0.2	5	05/17/18 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/24/18 12:27	emk
Lab Filtration (0.45um) & Acidification	M200.7/200.8	1							04/19/18 11:30	aeh
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		1.00			mg/L	0.02	0.1	05/17/18 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	1.00		٠	mg/L	0.02	0.1	04/18/18 21:44	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1		U	٠	mg/L	0.01	0.05	04/18/18 21:44	pjb
pH (lab)	SM4500H+ B									
pН		1	8.2	H		units	0.1	0.1	04/21/18 0:00	enb
pH measured at		1	21.9		*	С	0.1	0.1	04/21/18 0:00	enb
Residue, Filterable (TDS) @180C	SM2540C	1	454		*	mg/L	10	20	04/23/18 14:04	mh
Sodium Adsorption Ratio in Water	USGS - I1738-78		0.56						05/17/18 0:00	calc
Sulfate	SM4500 SO4-D	1	120		*	mg/L	10	50	04/24/18 12:45	emk

Inerganic Reference

CHINESIAN C	Vaccinity in Sanda	ORGANIA AND STRUCTURE TO STATE OF		LOT TO A STATE OF THE STATE OF
	A distinct not of our	mples analyzed at a specific time	POP MENSELVENI	
Batch				
Found	Value of the QC Ty			
Limit	Upper limit for RPD	imit, in % (except for LCSS, mg/Kg)		
Lower		Limit, Same as Minimum Reporting Limit u	inless omitted or e	gual to the POL (see comment #5).
MDL		ent and annual fluctuations		444.10 110 . 42 (
PCN/SCN		d to reagents/standards to trace to the mar	nufacturer's certific	ate of analysis
		ion Limit. Synonymous with the EPA term		
PQL QC		Control Sample or the amount added to the		
Rec		t of the true value or spike added, in % (ex		ı/Ka)
RPD		ifference, calculation used for Duplicate Qu		. 3,
Upper		imit, in % (except for LCSS, mg/Kg)		
Sample	Value of the Samp			
		CONTRACTOR STATE OF THE STATE O		· 特别的 (人名伊格尔特 ) 第一种原理
AS	Analytical Spike (P	ost Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD		ost Digestion) ost Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibral		LFM	Laboratory Fortified Matrix
CCV	_	tion Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	Company Standard	LRB	Laboratory Reagent Blank
ICB	Initial Calibration B	lank	MS	Matrix Spike
ICV	Initial Calibration V		MSD	Matrix Spike Duplicate
ICSAB		ection Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control		P8W	Prep Blank - Waler
LCSSD	-	Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control		SDL	Serial Dilution
		este dans de la constaction de	THE STATE OF THE	e trendrouwers de l'internation
An opposite and the	i antimetore	Verifies that there is no or minimal of	antomination in the	e prep method or calibration procedure
Blanks	1	Verifies the accuracy of the method		
Control Sar	mples	Verifies the accuracy of the method		
Duplicates	on a state.	Determines sample matrix interferer		,
Spikes/Fort	illed Mairix	Verifies the validity of the calibration		
Standard		vernies the validity of the calibration		
ž (vindtha 8			DOL The service	
В		ion detected at a value between MDL and		
н		I method hold time. pH is a field test with a		unie,
TE <sub>2</sub>		ponse was below the laboratory defined ne		oniated values
U		analyzed for, but was not detected above th lue is either the sample quantitation limit or		
	7710 0000010100 701			
(1)	EDA 600/4 93 030	Methods for Chemical Analysis of Water	and Wastes Marc	ch 1983.
(1)	EDA 600/0 03 400	). Methods for the Determination of Inorga	nic Substances in	Environmental Samples August 1993
(2)		Methods for the Determination of Metals		
(3)		st Methods for Evaluating Solid Waste	III EII III III III III III III III III	The state of the s
(4) (5)		for the Examination of Water and Wastew	ater.	
	Stangard Motifods		A TAIL SHE WATER	
(4)	OC results and the	ted from raw data. Results may vary slight	ly if the rounded w	alues are used in the calculations
(1)		led from raw data. Results may vary silgrit Plant matrices for Inorganic analyses are re		
(2)		r Inorganic analyses are reported on an "a		
(3)		r Inorganic analyses are reported on an activities an extended		ertification qualifier
(4)	An asterisk in the " associated with the		qualifici allufol ce	or anocatori quantur
(5)		e result. the PQL or the MDL column is omitted, the	PQL is the reporti	na limit.
(5)	ii tile MDL equals t	and I are of the more soldining officed the		
			Carry Cale Color	

For a complete list of ACZ's Extended Qualifiers, please click:

http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

#### Zancanella & Associates

ACZ Project ID: L43774

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaC	O3		SM2320	3 - Titration									
(C) (D)	Typn	/2012/9201	* 01/1/2(01N	15(8	Str (m) into	Found	Units	Photo	100)17211	U(0)*fel*	(\$15/2)	#In((	3(18)
WG445815													
NG445815PBW1	PBW	04/20/18 17:00				4.6	mg/L		-20	20			
NG445815LCSW3	LCSW	04/20/18 17:16	WC180410-7	820.0001		784	mg/L	96	90	110			
WG445815LCSW6	LCSW	04/20/18 20:27	WC180410-7	820,0001		779	mg/L	95	90	110			
NG445815PBW2	PBW	04/20/18 20:36				5,1	mg/L		-20	20			
WG445815LCSW9	LCSW	04/21/18 0:16	WC180410-7	820.0001		794	mg/L	97	90	110			
WG445815PBW3	PBW	04/21/18 0:25				5,1	mg/L		-20	20			
WG445815LCSW12	LCSW	04/21/18 2:50	WC180410-7	820.0001		785	mg/L	96	90	110			
WG445815PBW4	PBW	04/21/18 2:59				5.3	mg/L		-20	20			
L43774-01DUP	DUP	04/21/18 3:18			232	220	mg/L				5	20	
WG445815LCSW15	LCSW	04/21/18 5:14	WC180410-7	820.0001		800	mg/L	98	90	110			
Arsenic, total rec	overab	le	M200.8 I	CP-MS									
x(6)2 (10	TNH 3	Sections	MANISON	Ale:	Simple	la piji	binhi:	R(40%)	1.4(0(6))	Unper	(\$45)2)	Linni	સાહ
WG446597													
WG446597ICV	ICV	05/03/18 13:51	MS180423-2	.05		.05029	mg/L	101	90	110			
WG446597ICB	ICB	05/03/18 13:53				U	mg/L		-0.0015	0.0015			
WG446130LRB	LRB	05/03/18 13:58				U	mg/L		-0.0011	0.0011			
WG446130LFB	LFB	05/03/18 14:00	MS180330-2	.0501		.04619	mg/L	92	85	115			
L43774-01LFM	LFM	05/03/18 14:08	MS180330-2	.0501	.001	.04459	mg/L	87	70	130			
L43774-01LFMD	LFMD	05/03/18 14:11	MS180330-2	.0501	.001	.04524	mg/L	88	70	130	1	20	
Cadmium, total r	ecovera	ible	M200.7 I	CP									
ACZ HD	Type	Ababyani	PIONINGIA	Ale ale	Samilia	Femilia	11016	Ren%	Lawer	11994(0)	Eleja.	timit	Qual
WG446057						1000			I - III - III			100 000	
WG446057ICV	ICV	04/25/18 15:51	II180424-2	2		1.9448	mg/L	97	95	105			
WG446057ICB	ICB	04/25/18 15:57				U	mg/L		-0.015	0.015			
WG445957LRB	LRB	04/25/18 16:13				U	mg/L		-0,011	0.011			
WG445957LFB	LFB	04/25/18 16:16	II180413-3	.4995		.4908	mg/L	98	85	115			
L43752-01LFM	LFM	04/25/18 16:29	II180413-3	4995	U	.4949	mg/L	99	70	130			
L43752-01LFMD	LFMD	04/25/18 16:33	II180413-3	.4995	U	.4928	mg/L	99	70	130	0	20	
Calcium, dissolv	ed		M200.7 I	CP									
AOZ ID	$\psi p =$	0.0000000	12(0)///2(0)/	a dia	Sample	- Equito-	ting.	Reck	a lawy metrics	- Union	R1910	Labett	(alle)
WG445808											-		
WG445808ICV	ICV	04/20/18 15:34	II180327-1	100		98.05	mg/L	98	95	105			
WG445808ICB	ICB	04/20/18 15:40				U	mg/L		-0.3	0.3			
WG445808LFB	LFB	04/20/18 15:53	II180413-3	67,9908		67.01	mg/L	99	85	115			
L43806-01AS	AS	04/20/18 16:08	II180413-3	67.9908	206	260.2	mg/L	80	85	115			МЗ
L43806-01ASD	ASD	04/20/18 16:11	11180413-3	67,9908	206	262,6	mg/L	83	85	115	1	20	МЗ
Chloride			SM45000	CI-E									
ACZ (D	Type	Amalyacu	FORSON	6 To	Sample	Halling	tome	Read	Lower	Upper	181710	Amn	(One)
WG446071			The state of the s	70			and the state of t			of the Paris and			
NG446071ICB	ICB	04/25/18 7:51				U	mg/L		-1.5	1.5			
WG446071ICV	ICV	04/25/18 7:52	WI170807-5	55.165		58.66	mg/L	106	90	110			
NG446071LFB1	LFB	04/25/18 12:42	WI171229-5	30.03		32.54	mg/L	108	90	110			
_43752 <b>-</b> 01AS	AS	04/25/18 12:43	WI171229-5	30.03	1.3								
L43/32-01A3	/10			30.03	1.3	33.33	mg/L	107	90	110			

ACZ Project ID: L43774

#### Zancanella & Associates

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

WG446057           WG446057ICV         ICV         04/25/18 15:51         II180424-2         2         1.987         mg/L         99         95         105           WG446057ICB         ICB         04/25/18 16:57         U         mg/L         -0.03         0.03           WG445957LRB         LRB         04/25/18 16:13         U         mg/L         -0.022         0.022           WG445957LFB         LFB         04/25/18 16:16         II180413-3         4.975         .06         .564         mg/L         99         85         115           L43752-01LFM         LFM         04/25/18 16:33         II180413-3         .4975         .06         .564         mg/L         101         70         130           Fluoride         SM4500F-C           SM4500F-C           WG446003           WG446003ICW         ICV         04/25/18 9:08         WC180423-1         1.996         1.992         mg/L         100         95         105           WG446003ICB         ICB         04/25/18 9:14         .056         mg/L         90         90         110           WG446003LFB1         LFB         04/25/18 9:35 <th>0</th> <th>20</th> <th>onet.</th>	0	20	onet.
WG445815           WG445815LCSW2         LCSW         04/20/18 17:04         PCN55420         1409         1470         umhos/cm         104         90         110           WG445815LCSW3         LCSW         04/20/18 20:16         PCN55420         1409         1460         umhos/cm         104         90         110           WG445815LCSW3         LCSW         04/21/18 2:39         PCN55420         1409         1430         umhos/cm         101         90         110           U43774-01DUP         DUP         04/21/18 3:18         -         725         724         umhos/cm         101         90         110           WG445815LCSW14         LCSW         04/21/18 5:02         PCN55420         1409         1430         umhos/cm         101         90         110           L43774-01DUP         DUP         04/21/18 5:02         PCN55420         1409         1430         umhos/cm         101         90         110           WG4465871CW         LCSW         04/21/18 5:01         R900.7 ICP         V         V         V         04/25/18 15:51         II180424-2         2         1,987         mg/L         99         95         105           WG4469571CB <t< th=""><th>0</th><th>20</th><th></th></t<>	0	20	
WG445815LCSW2	(2)(7)		sire!
MG445815LCSWF	(2)(7)		cun!
NG445815LCSW/5   LCSW   04/20/18 20:16   PCN55420   1409   1460   umhos/cm   104   90   110	(2)(7)		(init)
NG445815LCSW8	(2)(7)		(4)14)
MG445815LCSW11   LCSW	(2)(7)		Circl
A3774-01DUP	(2)(7)		(iii)
M200.7 ICP   M20		Listi.	(and
### WG446057  ### WG446057  ### WG446057  ### WG446057ICV   ICV   04/25/18 15:51   II180424-2   2   1.987   mg/L   99   95   105   1		uni.	(106)
WG446057         WG446057ICV         ICV         04/25/18 15:51         II180424-2         2         1.987         mg/L         99         95         105           WG446057ICB         ICB         04/25/18 15:57         U         mg/L         -0.03         0.03           WG446957LRB         LRB         04/25/18 16:13         U         mg/L         -0.022         0.022         0.022           WG445957LFB         LFB         04/25/18 16:16         II180413-3         .4975         .495         mg/L         99         85         115           .43752-01LFM         LFM         04/25/18 16:33         II180413-3         .4975         .06         .564         mg/L         101         70         130           .43752-01LFMD         LFMD         04/25/18 16:33         II180413-3         .4975         .06         .564         mg/L         101         70         130           Fluoride         SM4500F-C           SM4500F-C           WG446003           WG446003ICM         ICV         04/25/18 9:08         WC180423-1         1.996         1.992         mg/L         100         95         105           WG446003LCPI         ICF		J. Hi	din!
MG446057 CV   ICV   04/25/18 15:51   II180424-2   2   1,987   mg/L   99   95   105     MG446057 CB   ICB   04/25/18 15:57   U   mg/L   -0.03   0.03     MG445957LRB   LRB   04/25/18 16:13   U   mg/L   -0.022   0.022     MG445957LFB   LFB   04/25/18 16:16   II180413-3   .4975   .495   mg/L   99   .85   .115     L43752-01LFM   LFM   04/25/18 16:29   II180413-3   .4975   .06   .564   mg/L   .101   .70   .130     L43752-01LFMD   LFMD   04/25/18 16:33   II180413-3   .4975   .06   .562   mg/L   .101   .70   .130     MG445003   MG446003	0		
NG446057 CB   CB   04/25/18   15:57	0		
NG445957LRB LRB 04/25/18 16:13	0		
NG445957LRB	0		
WG445957LFB LFB 04/25/18 16:16 II180413-3 .4975 .06 .564 mg/L 99 85 115 L43752-01LFM LFM 04/25/18 16:39 II180413-3 .4975 .06 .564 mg/L 101 70 130 L43752-01LFMD LFMD 04/25/18 16:33 II180413-3 .4975 .06 .562 mg/L 101 70 130  Filtoride SM4500F-C  WG446003 WG446003ICV ICV 04/25/18 9:08 WC180423-1 1.996 1.992 mg/L 100 95 105 WG446003LFB1 LFB 04/25/18 9:14 .066 mg/L -0.15 0.15 WG446003LFB1 LFB 04/25/18 9:27 WC171227-7 4.99 4.934 mg/L 99 90 110 L43774-01DUP DUP 04/25/18 9:43 .33 .408 mg/L WG446003LFB2 LFB 04/25/18 12:30 WC171227-7 4.99 4.913 mg/L 98 90 110  Iron, total recoverable M200.7 ICP  WG446057 WG446057ICV ICV 04/25/18 15:51 II180424-2 2 1.928 mg/L 96 95 105 WG446057ICV ICV 04/25/18 15:51 II180424-2 2 1.928 mg/L 96 95 105	0		
L43752-01LFMD	0		
Fluoride SM4500F-C  AND THE OFFICE SM4500F-C  AND SHIPE SM4500F-C  AND SHIPE FOUND LONG KOLD LONG LONG LONG LONG LONG LONG LONG LONG	0		
WG446003  CV   CV   04/25/18 9:08   WC180423-1   1.996   1.992   mg/L   100   95   105		20	
WG446003 WG446003 CV   ICV   04/25/18 9:08   WC180423-1   1.996   1.992   mg/L   100   95   105   WG446003 CB   ICB   04/25/18 9:14   .056   mg/L   .015   .015   WG446003 LFB1   LFB   04/25/18 9:27   WC171227-7   4.99   4.934   mg/L   99   90   110   L43774-01AS   AS   04/25/18 9:35   WC171227-7   4.99   .33   4.724   mg/L   88   90   110   L43774-01DUP   DUP   04/25/18 9:43   .33   .408   mg/L   WG446003 LFB2   LFB   04/25/18 12:30   WC171227-7   4.99   4.913   mg/L   98   90   110   WG4460057 WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   I180424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51   II80424-2   2   1.928   mg/L   96   95   105   WG446057 CV   ICV   04/25/18 15:51			
WG446003ICV         ICV         04/25/18 9:08         WC180423-1         1.996         1,992         mg/L         100         95         105           WG446003ICB         ICB         04/25/18 9:14         .056         mg/L         -0.15         0,15           WG446003LFB1         LFB         04/25/18 9:27         WC171227-7         4.99         4.934         mg/L         99         90         110           L43774-01AS         AS         04/25/18 9:35         WC171227-7         4.99         .33         4.724         mg/L         88         90         110           L43774-01DUP         DUP         04/25/18 9:43         .33         .408         mg/L         98         90         110           WG446003LFB2         LFB         04/25/18 12:30         WC171227-7         4.99         4.913         mg/L         98         90         110           Iron, total recoverable           M200.7 ICP           WG446057           WG446057ICV         ICV         04/25/18 15:51         II180424-2         2         1.928         mg/L         96         95         105	sitti	Limit	digit
WG446003ICB         ICB         04/25/18 9:14         .056         mg/L         -0.15         0,15           WG446003ICB         LFB         04/25/18 9:27         WC171227-7         4.99         4.934         mg/L         99         90         110           L43774-01AS         AS         04/25/18 9:35         WC171227-7         4.99         .33         4.724         mg/L         88         90         110           L43774-01DUP         DUP         04/25/18 9:43         .33         .408         mg/L         98         90         110           WG446003LFB2         LFB         04/25/18 12:30         WC171227-7         4.99         4.913         mg/L         98         90         110           Iron, total recoverable         M200.7 ICP           WG446057           WG446057ICV         ICV         04/25/18 15:51         II180424-2         2         1.928         mg/L         96         95         105			
WG446003LFB1 LFB 04/25/18 9:27 WC171227-7 4.99 4.934 mg/L 99 90 110 L43774-01AS AS 04/25/18 9:35 WC171227-7 4.99 .33 4.724 mg/L 88 90 110 L43774-01DUP DUP 04/25/18 9:43 .33 .408 mg/L WG446003LFB2 LFB 04/25/18 12:30 WC171227-7 4.99 4.913 mg/L 98 90 110  Iron, total recoverable M200.7 ICP  WG446057 WG446057 WG446057 WG446057ICV ICV 04/25/18 15:51 II180424-2 2 1.928 mg/L 96 95 105			
L43774-01AS AS 04/25/18 9:35 WC171227-7 4.99 .33 4.724 mg/L 88 90 110 L43774-01DUP DUP 04/25/18 9:43 .33 .408 mg/L WG446003LFB2 LFB 04/25/18 12:30 WC171227-7 4.99 4.913 mg/L 98 90 110  Iron, total recoverable			
L43774-01DUP DUP 04/25/18 9:43 WG446003LFB2 LFB 04/25/18 12:30 WC171227-7 4.99 4.913 mg/L 98 90 110  Iron, total recoverable  M200.7 ICP  WG446057 WG446057 WG446057ICV ICV 04/25/18 15:51 II180424-2 2 1.928 mg/L 96 95 105			
WG446003LFB2 LFB 04/25/18 12:30 WC171227-7 4.99 4.913 mg/L 98 90 110  Iron, total recoverable M200.7 ICP  WG446057  WG446057ICV ICV 04/25/18 15:51 I180424-2 2 1.928 mg/L 96 95 105			M2
Iron, total recoverable	21	20	RA
WG446057ICV ICV 04/25/18 15:51 I180424-2 2 1.928 mg/L 96 95 105			
WG446057 WG446057ICV ICV 04/25/18 15:51			
WG446057ICV ICV 04/25/18 15:51 II180424-2 2 1.928 mg/L 96 95 105	स्रकृ	Louis	Cattle .
VVO44003716V 10V 04726716 16.01			
WG446057ICB ICB 04/25/18 15:57 U mg/L -0.06 0.06			
WG445957LRB LRB 04/25/18 16:13 U mg/L -0.044 0.044			
WG445957LFB LFB 04/25/18 16:16   180413-3 1,0011 .991 mg/L 99 85 115			
L43752-01LFM LFM 04/25/18 16:29   180413-3 1.0011 U 1.009 mg/L 101 70 130			
L43752-01LFMD LFMD 04/25/18 16:33 II180413-3 1,0011 U .998 mg/L 100 70 130	1	20	
Lead, total recoverable M200.8 ICP-MS			
reaction type ranners statistics to Statistic forms that the state of	d-H	e Well	(Steil
WG446597			
WG446597ICV ICV 05/03/18 13:51 MS180423-20505305 mg/L 106 90 110			
WG446597ICB ICB 05/03/18 13:53 U mg/L -0.0003 0.0003			
WG446130LRB LRB 05/03/18 13:58 U mg/L -0.00022 0.00022			
WG446130LFB LFB 05/03/18 14:00 MS180330-2 0496 04533 mg/L 91 85 115			
L43774-01LFM LFM 05/03/18 14:08 MS180330-2 .0496 .0002 .04603 mg/L 92 70 130			
L43774-01LFMD LFMD 05/03/18 14:11 MS180330-2 .0496 .0002 .0458 mg/L 92 70 130	1	20	

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Inorganic QC Summary

#### Zancanella & Associates

ACZ Project ID: L43774

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Magnesium, diss	olved		M200.7 I	CP									
F(6Z   0	Type	Amilyzen:	RONISON	nic .	sample	House	Units	Ree%	Lover	Majori	17/0	Limil	20te
WG445808										***************************************			
WG445808ICV	ICV	04/20/18 15:34	11180327-1	100		97.93	mg/L	98	95	105			
WG445808ICB	ICB	04/20/18 15:40				U	mg/L		-0.6	0.6			
WG445808LFB	LFB	04/20/18 15:53	II180413-3	49.96377		45.68	mg/L	91	85	115			
L43806-01AS	AS	04/20/18 16:08	II180413-3	49.96377	58.9	101.9	mg/L	86	85	115			
L43806-01ASD	ASD	04/20/18 16:11	II180413-3	49.96377	58.9	102.1	mg/L	86	85	115	0	20	
Manganese, total	recove	erable	M200.7 I	CP									
AGZ ID	1900	Afficiental	PCNSON	ØC.	Sample	Famili	anilli.	Renex	May (iii	Singer:	7(7/5)	latinic	G(IS)
WG446057													
WG446057ICV	ICV	04/25/18 15:51	1180424-2	2		1.9685	mg/L	98	95	105			
WG446057ICB	ICB	04/25/18 15:57				U	mg/L		-0,015	0.015			
WG445957LRB	LRB	04/25/18 16:13				U	mg/L		-0.011	0.011			
WG445957LFB	LFB	04/25/18 16:16	II180413-3	<sub>2</sub> 5		.5081	mg/L	102	85	115			
L43752-01LFM	LFM	04/25/18 16:29	II180413-3	.5	U	.5155	mg/L	103	70	130			
L43752-01LFMD	LFMD	04/25/18 16:33	11180413-3	.5	U	.5133	mg/L	103	70	130	0	20	
Nitrate/Nitrite as	N, diss	olved	M353.2 -	Automated	l Cadmiu	m Reduc	tion						
ACZ IB	7900	Amalyzed	PONISHN	#{C	Sample	Political	Diff(s)	\$640/4	tapyor	Oppur	1112	Jamis	ourt .
WG445678													
WG445678ICV	ICV	04/18/18 21:20	WI180301-7	2,416		2,483	mg/L	103	90	110			
WG445678ICB	ICB	04/18/18 21:21				U	mg/L		-0.02	0.02			
WG445678LFB1	LFB	04/18/18 21:26	WI180103-12	2		2,116	mg/L	106	90	110			
L43772-02DUP	DUP	04/18/18 21:34			.08	.084	mg/L				5	20	RA
WG445678LFB2	LFB	04/18/18 22:06	WI180103-12	2		2.085	mg/L	104	90	110			
L43772-01AS	AS	04/18/18 22:31	WI180103-12	2	.04	2.111	mg/L	104	90	110			
Nitrite as N, disse	olved		M353.2 -	Automated	I Cadmiu	m Reduc	tion						
A(ez)ib	Typh	Antilyan	PONIS(c)N	100	Sample	(figur)ni	Smile:	Rec%	1	Jupa:	\$1713)	Rimit	ены п
WG445678													
WG445678ICV	ICV	04/18/18 21:20	WI180301-7	.609		.623	mg/L	102	90	110			
WG445678ICB	ICB	04/18/18 21:21				U	mg/L		-0.01	0.01			
WG445678LFB1	LFB	04/18/18 21:26	WI180103-12	1		1.048	mg/L	105	90	110			
L43772-01AS	AS	04/18/18 21:31	WI180103-12	1	U	1.041	mg/L	104	90	110			
L43772-02DUP	DUP	04/18/18 21:34			U	U	mg/L				0	20	RA
WG445678LFB2	LFB	04/18/18 22:06	WI180103-12	1		1.042	mg/L	104	90	110			
pH (lab)			SM4500	H+ B									
f2(97.1 b)	Type	Annigacti	PENISON	eic	Sample	Patenni	Units	Reply.	1401//(41	Upper	(F)(F)(B)	Monte	(ens)
WG445815													
WG445815LCSW1	LCSW	04/20/18 17:03	PCN54162	6.01		6.1	units	101	5.9	6.1			
WG445815LCSW4	LCSW	04/20/18 20:14	PCN54162	6,01		6.1	units	101	5.9	6.1			
WG445815LCSW7	LCSW	04/21/18 0:02	PCN54162	6.01		6.1	units	101	5.9	6.1			
WG445815LCSW10	LCSW	04/21/18 2:37	PCN54162	6.01		6.1	units	101	5.9	6,1			
L43774-01DUP	DUP	04/21/18 3:18			8.2	8.2	units				0	20	
WG445815LCSW13	LCSW	04/21/18 5:00	PCN54162	6.01		6.1	units	101	5.9	6.1			

#### Zancanella & Associates

ACZ Project ID: L43774

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Residue, Filterable (TDS) @180C SM2540C

Residue, Filteral	ole (TDS	@180C	SM25400	3								
/AUX-NED	Type	/And North	198508(3)5	alc	V=him)(i	fantinti -	10h-	1441020	1.01/(43)	3(9)(6)	15/212	anet tenst
WG445913												
WG445913PBW	PBW	04/23/18 13:36				U	mg/L		-20	20		
WG445913LCSW	LCSW	04/23/18 13:38	PCN54739	260		268	mg/L	103	80	120		
L43782-01DUP	DUP	04/23/18 14:10			3920	3940	mg/L				1	10
Sodium, dissolv	ed		M200.7 I	CP								
, (eg.(i)	Syper	Annihyaen	ENNINOTE:	45	Sample	(50)1077	Millo-	26000	1-10/01	dighe	11 (11)	2000 2000
WG445808												
WG445808ICV	ICV	04/20/18 15:34	II180327-1	100		99,15	mg/L	99	95	105		
WG445808ICB	ICB	04/20/18 15:40				U	mg/L		-0.6	0,6		
WG445808LFB	LFB	04/20/18 15:53	II180413-3	100.1384		97.95	mg/L	98	85	115		
L43806-01AS	AS	04/20/18 16:08	II180413-3	100,1384	155	247.7	mg/L	93	85	115		
L43806-01ASD	ASD	04/20/18 16:11	II180413-3	100,1384	155	247.1	mg/L	92	85	115	0	20
Sulfate		192	SM4500	SO4-D								
1.(6/.3)1	Type	emely (ad)	5(0) ARVSIS.	25	(कामाधीर)	Familie.	0.0088	14000	0.00000	imila	iştela.	limit PREL
WG445992												
WG445992PBW	PBW	04/24/18 12:30				U	mg/L		-30	30		
WG445992LCSW	LCSW	04/24/18 12:33	WC170902-4	100		103	mg/L	103	80	120		
L43866-06DUP	DUP	04/24/18 13:15			300	306	mg/L				2	20
Uranium, total re	ecoveral	ole	M200.8 I	CP-MS								
(1) 2(C) (10 °	(me)	Ametyzen	TOWNSON I	ay salasan	Stimple.	Somi	links.	troity	Laberra	Harter	FP3	parell (1991)
WG446597												
WG446597ICV	ICV	05/03/18 13:51	MS180423-2	.05		.05431	mg/L	109	90	110		
WG446597ICB	ICB	05/03/18 13:53				U	mg/L		-0,0003	0.0003		
WG446130LRB	LRB	05/03/18 13:58				U	mg/L		-0.00022	0.00022		
WG446130LFB	LFB	05/03/18 14:00	MS180330-2	.05		.04746	mg/L	95	85	115		
L43774-01LFM	LFM	05/03/18 14:08	MS180330-2	.05	.0034	.05398	mg/L	101	70	130		
L43774-01LFMD	LFMD	05/03/18 14:11	MS180330-2	.05	.0034	.05389	mg/L	101	70	130	0	20
Zinc, total recov	erable		M200.7 I	CP								
e (0 % 19	THIS	राम्ह\√=्युवर्	17 118 18010		\$60 MH	a suprino s	37(1)	tian.	Lower	Hotel	n titti	thit on-
WG446057												
WG446057ICV	IC V	04/25/18 15:51	II180424-2	2		1.956	mg/L	98	95	105		
WG446057ICB	ICB	04/25/18 15:57				U	mg/L		-0.03	0.03		
WG445957LRB	LRB	04/25/18 16:13				U	mg/L		-0.022	0,022		
WG445957LFB	LFB	04/25/18 16:16	11180413-3	4942		.503	mg/L	102	85	115		
L43752-01LFM	LFM	04/25/18 16:29	II180413-3	.4942	.02	.515	mg/L	100	70	130		
L43752-01LFMD	LFMD	04/25/18 16:33	II180413-3	.4942	.02	.52	mg/L	101	70	130	1	20

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Inorganic Extended Qualifier Report

#### Zancanella & Associates

ACZ Project ID: L43774

ASSETTE.	WORKSHIM	FARAMETER	MEPROD.	(E(1/2)	DESCRIPTION
L43774-01	WG445815	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG445808	Calcium, dissolved	M200.7 ICP	МЗ	
	WG445815	Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG446071	Chloride	SM4500CI-E	Q6	Sample was received above recommended temperature.
	WG445665	Coliforms, fecal	SM9222D - Membrane Filter	НЗ	Sample was received and analyzed past holding time.
			SM9222D - Membrane Filter	N1	See Case Narrative.
			SM9222D - Membrane Filter	Q6	Sample was received above recommended temperature.
	WG445815	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	RG635393	Corrosivity (calc.)	SM 2330 - CaCO3 SI	ZZ	Laboratory measured pH and temperature were used in this calculation. Sampler did not report either field pH, field temperature, or both.
	WG446003	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500F-C	Q6	Sample was received above recommended temperature.
			SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG445815	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG445678	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ŽU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG445815	рΗ	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG445913	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG445992	Sulfate	SM4500 SO4-D	Q6	Sample was received above recommended temperature.
	WG445815	Total Alkalinity	SM2320B - Litration	Q6	Sample was received above recommended temperature.

RadioChemistry Analytical Results

Zancanella & Associates

ACZ Sample ID: L43774-01

Project ID: BO39632 Date Sampled: 04/17/18 10:00

Sample ID: (AS PROVIDED)GREENRAWREDPCREDPCWMRE Date Received: 04/18/18

Locator: Sample Matrix: Drinking Water

Gross Alpha & Beta

M900.0

Prep Melhod:

Grant Committee	The said the	Con FIG T	- TT 5 - W. C.	Final	sould be	(4))(8	ca 874	Such at
Alpha	04/26/18 0:31		5.4	2.5	1.7	pCi/L	*	gjb
Beta	04/26/18 0:31		5.4	3.1	3	pCi/L	*	gjb

## Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Radiochemistry Reference

Remort Mention Taxonomicans

Batch A distinct set of samples analyzed at a specific time

Error(+/-) Calculated sample specific uncertainty

Found Value of the QC Type of interest

Limit Upper Ilmit for RPD, in %.

LCL Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD Calculated sample specific Lower Limit of Detection

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit

QC True Value of the Control Sample or the amount added to the Spike

Rec Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)

RER Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.

RPD Relative Percent Difference, calculation used for Duplicate QC Types

UCL Upper Control Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

AC Seemble Trying

DUP Sample Duplicate MS/MSD Matrix Spike/Matrix Spike Duplicate

 LCSS
 Laboratory Control Sample - Soil
 PBS
 Prep Blank - Soil

 LCSW
 Laboratory Control Sample - Water
 PBW
 Prep Blank - Water

CC Semile Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method.

Matrix Spikes Determines sample matrix interferences, if any.

H Analy

Analysis exceeded method hold time.

M EPA methodology, including those under SDWA, CWA, and RCRA

SM Standard Methods for the Examination of Water and Wastewater.

D ASTM RP DOE

ESM DOE/ESM

(1) Solid matrices are reported on a dry weight basis.

(2) Preparation method: "Method" indicates preparation defined in analytical method.

(3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

http://www.acz.com/public/extguallist.pdf

REP003.09.12.01

Zancanella & Associates ACZ Project ID: L43774

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alpha M900.0	Units: pCi/L
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<b></b>			10000.0										Office	s. pone		
F(67, 1)	Type	Pfinifical	stell/fision)	(6)0	Sample -	12000	ill ar	Tann	B+(N)	Shirt	Pales	Lar(Vil)	ijajou	\$(*)0)07428*	(b/m)it	\$16×1
WG446144																
WG446152PBW	PBW	04/26/18						.51	0.91	1			2			
WG446152LCSW	LCSW	04/26/18	PCN55778	100				100	8.7	1.8	100	67	144			
L43749-02DUP	DUP-RPD	04/26/18			11	4.3	7.8	4.9	3.2	9.5				77	20	RG
L43749-02DUP	DUP-RER	04/26/18			11	4.3	7.8	4.9	3.2	9.5				1.14	2	
L43749-06DUP	DUP-RPD	04/26/18			3.1	2.9	6.3	1.4	2.8	6.6				76	20	RG
L43749-06DUP	DUP-RER	04/26/18			3.1	2.9	6.3	1.4	2.8	6.6				0.42	2	
L43749-03MS	MS	04/26/18	PCN55778	100	9	4.1	7,5	100	12	6.9	91	67	144			
Beta			<b>M</b> 900.0										Unit	s: pCi/L		
107. 0	Transport	Am 1g/240	Folkhistern	40	Sample	Birdin.	10 (2)	Sallin	Enterio	111.5	Turk.	1,00	Hippin.	ranburan.	Limit	thirl
WG446144																
WG446152PBW	PBW	04/26/18						.14	1.8	1.9			3.8			
WG446152LCSW	LCSW	04/26/18	RC180320-10	100				94	6.4	2.8	94	82	122			
L43749-02DUP	DUP-RPD	04/26/18			12	4.4	8.2	8	4.6	7.7				40	20	RG
L43749-02DUP	DUP-RER	04/26/18			12	4.4	8.2	8	4.6	7.7				0.63	2	
L43749-06DUP	DUP-RPD	04/26/18			1.9	3.9	13	2.7	3,6	13				35	20	RG
L43749-06DUP	DUP-RER	04/26/18			1.9	3.9	13	2.7	3.6	13				0.15	2	
L43749-08MS	MS	04/26/18	RC180320-10	100	5.6	4	14	150	9.7	13	144	82	122			M1

RadChem Extended Qualifier Report

#### Zancanella & Associates

ACZ Project ID: L43774

(A)277 (la)	44(0)(13(4))(1	CHARACHTER IN	METERODE.	Lably to	rates or energially.
L43774-01	WG446144	Alpha	M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
		Beta	M900.0	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M900.0	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control

Cerifification
Qualifiers

#### Zancanella & Associates

ACZ Project ID: L43774

Metals Analysis
The following permitted strength distribution against many and expectation NEWAS quality distributions.

Cadmium, total recoverable

M200,7 ICP

Copper, total recoverable

M200.7 ICP

Wet Chemistry

The following particular streeth of the conflict following and conflict the National Page 2.

Chloride

SM4500CI-E

Coliforms, fecal

SM9222D - Membrane Filter

Sulfate

SM4500 SO4-D

#### Zancanella & Associates BO39632

ACZ Project ID:

L43774

Date Received: 04/18/2018 11:25

Received By:

Date Printed:

4/18/2018

		Х
V		
X		
	Х	
		Х
X		
X		(mail)
X		Unitorio
	X	X

#### Samata Container

custody.

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? 1
- 12) Is there sufficient sample volume to perform all requested work?
- 13) Is the custody seal intact on all containers?
- 14) Are samples that require zero headspace acceptable?
- 15) Are all sample containers appropriate for analytical requirements?
- 16) Is there an Hg-1631 trip blank present?
- 17) Is there a VOA trip blank present?
- 18) Were all samples received within hold time?

Some parameters were received past hold time.

YES	NO	NA
Х		
Х		
Х		
Х		
Х		
		Х
		Х
Х		SWIE
		Х
		Х
	Х	

NA indicates Not Applicable

#### Chan in Challing Stratum Names to

#### SHATE STREET, STREET

#### Straight Contemps

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
5064	7.9	<=6.0	16	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Zancanella & Associates BO39632

ACZ Project ID:

L43774

Date Received: 04/18/2018 11:25

Received By:

Date Printed:

4/18/2018

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

L43774

E-mail: belwork & garengimer) a Telephone. 970-945-5780  Copy of Report to:  Name:  Company:  Invoice to:  Name: Zawahella & Assac  Company:  If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?  Are samples for SDWA Compliance Monitoring?  If yes, please include state forms. Results will be reported to PQL for Colorado.  Sampler's Name: Sampler's Signature:  Sampler's Signature:  PROJECT INFORMATION  ANALYSES REDUISTED (attach fist or use quote Reporting state for compliance testing:  Check box if samples include NRC licensed material?  SAMPLE IDENTIFICATION  ANALYSES REDUISTED (attach fist or use quote Read Read)  Aprillo 10:00am  Reporting state for compliance testing:  Check box if samples include NRC licensed material?  SAMPLE IDENTIFICATION  ANALYSES REDUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)  Aprillo 10:00am  Analyses REQUISTED (attach fist or use quote Read)	Telephone:  Teleph	Telephone:    Telephone:   Tele	E-mail: Belmore & Parenajimering  Copy of Report to:  Name:  Company:  Invoice to:  Name: Pawahella Assoc  Company:  E-mail:  Telephone:  Address: Loli Grand Ave  Company:  E-mail:  Telephone:  Telephone:  Address: Loli Grand Ave  Company:  E-mail:  Telephone:  Telephone:  700-945-5700  Telephone:  700-945-945-945-945  Telephone:  700-945-945-945	Telephone:  Teleph	Telephone. 970-945-5700  Copy of Report to:  Name: Company: Invoice to:  Name: Zawahella   Assec	Copy of Report to:  Name:  Company:  Invoice to:  Name:  Zawahella LAGGC  Company:  E-mail:  Telephone:  Telephone:  Address:  LOII Grand Ave  Company:  E-mail:  Telephone:	_	any: Zaucanel	Elmore la d'Assoc		Addre	-	Oll G			<u>Co</u>
Name: Company:  Invoice to:  Name:  Zawahella & Assex  Company:  E-mail:  Telephone:  Address: 1011 Grand Ave  Company:  E-mail:  Telephone:  Telephon	E-mail: Telephone:  Address: Lon Grand Ave company:  Telephone:  Address: Lon Grand Ave company:  Telephone:  Tele	Name: Company:  Invoice to:  Name: Zawahella & Assac  Company:  E-mail:  If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?  "HO" than ACZ will contact allein to Printing Insulation. It relies "res" nor "NO" is Indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.  Are samples for SDWA Compliance Monitoring?  If yes, please include state forms. Results will be reported to PQL for Colorado.  Sampler's Name: Year Signature:  "Sampler's Signature:  "I steat to the authenticity and vuilding of this sample. I understand that intentionally minishabiling as a time tempering with the sample in snyway, is considered found and punishability plate Line.  PROJECT INFORMATION  Quote # DW — CUSTOM — ZOIS  Reporting state for compliance testing:  Check box if samples include NRC licensed material?  SAMPLE IDENTIFICATION  DATE:TIME  Read Rum  Read R	Name: Company:  Invoice to:  Name: Zawahella & Assoc  Company:  E-mail: If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?  NO  If "No" then ACZ will contact client for further instruction. If neither "YES" nor "No" is indicated, ACZ will proceed with the requested analyses, even if HT is appired, and deta will be a Are samples for SDWA Compliance Monitoring?  If yes, please include state forms. Results will be reported to PQL for Colorado.  Sampler's Name: Sampler's Site Information 'sampler's Signature:  "attest to the authenticity and willdity of this sample. I understand that increasily mishabiling in tamparing with the sample in anyway, is considered fraud and punishable by Gata Action  PROJECT INFORMATION  Quote #: DW — CUSTOM — ZOIS  Reporting state for compliance testing:  Check box if samples include NRC licensed material?  SAMPLE IDENTIFICATION DATE: TIME Matrix  As Provided Hills 10:00am  RCAPC  REAR WM	E-mail:  Telephone:  B: Zawrahella L Assac  Dany:  Telephone:  Telephone: Telephone: Telephone: Telephone: Telephone: Telephone: Telephone: Telephone: Telephone: Telephone: Telephone: Telephone: Tel	Name: Company:  Invoice to:  Name: Zawahella & Assex  Company:  E-mail: If sample(s) received past holding time (HT), or if insufficient HT remains to complete  PES  Analysis before expiration, shall ACZ proceed with requested short HT analyses?  NO  "No" then ACX will contact allem for forther instruction. If neither YES no" NO" is indicated, ACZ will proceed with the nequested analyses, even if HT is expired, and data will be qualified  Are samples for SDWA Compliance Monitoring?  If yes, please include state forms. Results will be reported to PQL for Colorado.  Sampler's Name: Yes No  Sampler's Signature:  'I attest to the activative and validity of this ample. I understand that then fearly imblesteding the thendest ply inhale Lev.  PROJECT INFORMATION  ANALYSES REQUESTES (place for our place of author)  Quote #: DW — CUSTOM — ZOIS  PO#: SO 3 6 3 7  Reporting state for compliance testing:  Check box if samples include NRC licensed material?  SAMPLE IDENTIFICATION  DATE: TIME  Matrix  ARALYSES REQUESTES (place for our place of author)  ANALYSES REQUESTES (place for author)	Name: Company:  Invoice to:  Name: ZawaheMa L Assac  Company:  E-mail: Telephone:  If sample(s) received past holding time (HT), or if insufficient HT remains to complete	E-mail	i: belmore@.q	20-engincering		Telep	hone.	970-	945	5700	
Company:  Invoice to:  Name: Zawahevia LAggax  Company:  E-mail:  Telephone:  Address: Loil Grand Ave  Calcurated Springs, Co  Telephone:  YES  Analysis before expiration, shall ACZ proceed with requested short HT analyses?  NO  I'No' the ACZ will proceed with the requested analyses, even if HT is expired, and data will be a Are samples for SDWA Compliance Monitoring?  Yes  No  If yes, please include state forms. Results will be reported to PQL for Colorado.  Sampler's Name: Sampler's Site Information  Sampler's Signature:  Sampler's Signature:  I attast to the authoriticity and wallety of this sample. I understand that intentionally mislabeling is tampering with the sample in anyway, is conditioned returned and punishable by State Law.  PROJECT INFORMATION  ANALYSES REDUISTED latter list or use quote of the Colorado.  Check box if samples include NRC licensed material?  SAMPLE IDENTIFICATION  DATE:TIME  Matrix  ANALYSES REDUISTED latter list or use quote of the Colorado.  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Invoice to:  Name: Rawahella LAGGOC  Company:  E-mail:	Address: 1011 Grand Ave company:  Gleguing Company:  Telephone: 970-945-5700  Telephone: 970-945-9400  Telephone: 970-9400  Telephone: 970-9400  Telephone: 970-9400  Telephone: 970-9400  Telephone	Invoice to:  Name: Zawahella & Assoc  Company:  E-mail:  If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?  If who then Acz will contact ellent for humber instruction. If another "YES" nor "No" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.  Are samples for SDWA Compliance Monitoring?  If yes, please include state forms. Results will be reported to PQL for Colorado.  Sampler's Name: Evan Sampler's Site Information  Sampler's Signature:  PROJECT INFORMATION  ANALYSES REDUISSTED (attach list or use quote number than particular and punishable by state Law.  PO#: BO 3 6 6 3 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Invoice to:  Name: Zawahella LASSAC  Company:  E-mail:	Address: Lon Grand Ave Cleanced Gorings, Co Bi Telephone: Grand Ave Cleanced Gorings, Co Bi Telephone: Grand Gorings, Co Bi Te	Invoice to:  Name: Zaurahella LAGGOC  Company:  E-mail:  If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?  **No** then ACZ will contact alleast for inchine* rice* nor inchine* ric	Name: Zawahella & Assex  Company:  E-mail:  If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?  NO  "HO" then ACZ will contact ellers for further instruction. Wanther "YES" nor "NO" is indicated, ACZ will proceed with the requested analysis, and data will be qualified. Are samples for SDWA Compliance Monitoring?  If yes, please include state forms. Results will be reported to PQL for Colorado.  Sampler's Name:	Comp	any:					4.0		,	
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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

## **Bottle Order Packing List**

Account:

ZANCANELLA/Zancanella Associate

Bottle Order: BO39632

Bill to Account: Bill to ACZ

Service Requested: UPS Ground

Ship Date Requested: 04/12/2018

Request Placed at: 04/11/2018 15:27

Sampling supplies

PACK	Qty	ACZ ID	Туре	Description
	1	COC	Chain of Custody	Chain of Custody, 1 for 10 samples.
	2	SEAL	Custody Seal	Custody seals for cooler, two for each cooler.
-	1	RETURN	Return Address	Return Address label, one for each cooler.
-	14	LABELS	Sample Labels	ACZ supplied labels for sample containers

#### **ACZ Coolers**

PACK	Qty	AGZ ID	Size	Weight	UPS Tracking Number
	1	5064	Medium	9	1Z8101300317188410
Quote n	umbe	r: DW-Cl	JSTOM-	2010	inking Water - Custom list 2018
Sample	Quant	tity: 2		AC	CZ is responsible for necessary sample filtering
PACK	Qty	Туре	Size	Filter/Raw/Preserve	Instructions
	1	GREEN	125 ML	Filtered/Nitric	Metals (dissolved except ICPMS) - This is a filtered sample.  Completely fill container.
	1	RAW	500 ML	Raw	Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container.
	1	RED PC	250 ML	Red pre-cleaned Raw/Nitric	Metals (total including ICPMS) - Do not overfill as there is Nitric Acid in the bottle.
	1	RED PC WM	1 L	Red pre-cleaned wide mouth Raw/Nitric	Metals (total ICPMS) - Do not overfill as there is Nitric Acid in the bottle.
	1	RED RAD	1000 ML	Raw/Nitric	Radiochemistry (total) - Do not overfill as there is Nitric Acid in the bottle.
	1	STERILE	100 ML	Raw/Sodium Thiosulfate	Coliforms - Completely fill container with sample. Coliforms require testing within 24 hours of sampling time. Please call ACZ if prior arrangements have not been made so we are prepared for the arrival of this sample.
	1	WHITE	250 ML	Filtered	Wet chemistry (dissolved) - This is a filtered sample. Completely fill container.

Prepared By/Date:	 	

# Water Quality Results Chris Janusz

Analyte	Category	Units	Detection Level(1)	Result	Threshold	Regulation <sup>(2)</sup>	Status	
Arsenic	Metals Analysis	mg/L	0.0005	0.001	0.01	Primary	Pass	
Cadmium	Metals Analysis	mg/L	0,005	U	0.01	Primary	Pass	
Calcium, dissolved	Metals Analysis	mg/L	0.1	87	N/A	N/A	N/A	
Copper	Metals Analysis	mg/L	0.02	U	1.3	Primary	Pass	
ron	Metals Analysis	mg/L	0.02	0.24	0.30	Secondary	Pass	
_ead	Metals Analysis	mg/L	0.0001	0.0002	0.015	Primary	Pass	-
Magnesium	Metals Analysis	mg/L	0.2	25.6	N/A	N/A	N/A	
Manganese	Metals Analysis	mg/L	0.005	U	0.050	Secondary	Pass	
Sodium	Metals Analysis	mg/L	0.2	22.9	N/A	None	Pass	
Zino .	Metals Analysis	mg/L	0.01	U	5.0	Secondary	Pass	
Chloride	Wet Chemistry	mg/L	2,5	28.9	250	Secondary	Pass	
Coliforms, fecal	Wet Chemistry	#/100 ml	1	0	1	Primary	Н	1
Iuoride	Wet Chemistry	mg/L	0.25	0.33	4,0	Primary	Pass	
Sulfate	Wet Chemistry	mg/L	2.5	120	250	Secondary	Pass	
Vitrate	Wet Chemistry	mg/L as N	0.02	1.00	10.0	Primary	Pass	
Nitrite	Wet Chemistry	mg/L as N	0.01	U	1.0	Primary	Pass	
Total Nitrate and Nitrite	Wet Chemistry	mg/L as N	0.02	1.00	10.0	Primary	Pass	4
Alkalinity, Bicarbonate	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	232	N/A	N/A	N/A	
Alkalinity, Total	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	232	N/A	N/A	N/A	
Carbonate	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	U	N/A	N/A	N/A	17
Hydroxide	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	U	N/A	N/A	N/A	
Corrosivity (calc.)	Wet Chemistry	SI unit	N/A	1.0	N/A	N/A	N/A	
Conductivity, @ 25°C	Wet Chemistry	μS/cm	1	725	N/A	N/A	N/A	
Hardness <sup>(3)</sup>	Wet Chemistry	mg/L as CaCO <sub>3</sub>	1	323	N/A	N/A	N/A	
pH	Wet Chemistry	Standard Units	0.1	8.2	6.5 < pH < 8.5	Secondary	Pass	
Sodium Absorption Ratio	Wet Chemistry	N/A	N/A	0.56	N/A	N/A	N/A	
Total Dissolved Solids	Wet Chemistry	mg/L	10	454	500	Secondary	Pass	
Gross Alpha Activity	Radiochemistry	pica/L	2	5.4	15.0	Primary	Pass	
Gross Beta Activity	Radiochemistry	pCi/L	2.2	5.4	50.0	Primary	Pass	
Uranium	Metals Analysis	mg/L	0.0001	0.0034	0.030	Primary	Pass	

<sup>(1)</sup> The Detection Level is the minimum concentration at which the analyte must be present to be detected by the laboratory testing method. Result of "u" = analyte not detected at level equal or above the detection level shown.

	Company of the Compan	Committee of the Commit	prompt file (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			The state of the s	AND RESERVED TO STREET AND ADDRESS OF THE PARTY OF THE PA	
considered to be community water sy	stems and therefore	not under the jurisdiction	on of agencies regulating	g drinking wate	r such as the EPA and C	DPHE. The community w	rater system standards	s are presented
sake of reference for risk evaluation to	o human health and	other aesthetic qualities	s shown.					
(3) Hardness Scale:								
Soft	<75							
Moderately Hard	75-120							
Hard	120-200							
Very Hard	>200							
					C+ 11: + 11++ 11+ 1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+ 1+ 1			

Primary = The threshold indicated is a Primary standard and is enforceable on community water systems; Secondary = The threshold indicated is a non-enforceable standard on community water systems and is the suggested contaminant level to reduce health risks and/or improve aesthetic qualities of water such as taste, odor, and color. Private wells serving less than 15 connections or 25 people are NOT considered to be community water systems and therefore not under the jurisdiction of agencies regulating drinking water such as the EPA and CDPHE. The community water system standards are presented for the property of th

#### Water Quality Results Chris Janusz Regulation(2) Detection Level(1) Threshold Result Status Analyte Category Units Primary Pass Metals Analysis 0.0005 0.001 0.01 mg/L Arsenic U 0.01 Primary Pass 0.005 Metals Analysis mg/L Cadmium 0.1 87 N/A N/A N/A Calcium, dissolved Metals Analysis mg/L Primary Pass 0.02 U 1.3 Metals Analysis Copper mg/L 0.02 0.24 0.30 Secondary Pass Metals Analysis Iron \* mg/L Primary Pass 0.0001 0.0002 0.015 Lead Metals Analysis mg/L N/A N/A N/A 0.2 25.6 Metals Analysis mg/L Magnesium Pass U 0.050 Secondary Manganese Metals Analysis mg/L 0.005 22.9 N/A None Pass 0.2 Sodium Metals Analysis mg/L 0.01 U 5.0 Secondary Pass Metals Analysis mg/L Zinc Pass 28.9 250 Secondary 2.5 Chloride Wet Chemistry mg/L Primary Н #/100 ml 1 0 1 Coliforms, fecal Wet Chemistry Primary Pass 4.0 Wet Chemistry mg/L 0.25 0.33 Fluoride Secondary Pass 120 250 2.5 Wet Chemistry mg/L Sulfate Primary Pass mg/L as N 0.02 1.00 10.0 Wet Chemistry Nitrate Pass Primary 0.01 U 1.0 mg/L as N Nitrite Wet Chemistry 0.02 1.00 10.0 Primary Pass mg/L as N Total Nitrate and Nitrite Wet Chemistry N/A N/A Wet Chemistry mg/L as CaCO<sub>3</sub> 2 232 N/A Alkalinity, Bicarbonate mg/L as CaCO<sub>3</sub> 2 232 N/A N/A N/A Alkalinity, Total Wet Chemistry U N/A N/A mg/L as CaCO<sub>2</sub> 2 N/A Wet Chemistry Carbonate N/A N/A mg/L as CaCO<sub>3</sub> U N/A 2 Wet Chemistry Hydroxide N/A N/A N/A SI unit N/A 1.0 Corrosivity (calc.) Wet Chemistry N/A N/A µS/cm 1 725 N/A Conductivity, @ 25°C Wet Chemistry Hardness<sup>(3</sup> mg/L as CaCO<sub>3</sub> 323 N/A N/A N/A Wet Chemistry 1 6.5 < pH < 8.5 Secondary Pass Wet Chemistry Standard Units 8.2 0.1 N/A 0.56 N/A N/A N/A N/A Sodium Absorption Ratio Wet Chemistry 500 Secondary Pass 10 454 Total Dissolved Solids Wet Chemistry mq/L 15.0 Primary Pass 2 5.4 Gross Alpha Activity Radiochemistry pica/L 5.4 50.0 Primary Pass Gross Beta Activity Radiochemistry pCi/L 2.2 0.0034 0.030 Primary Pass 0.0001 Metals Analysis mg/L Uranium (1) The Detection Level is the minimum concentration at which the analyte must be present to be detected by the laboratory testing method. Result of "u" = analyte not detected at level equal or above the detection level shown. (2) Primary = The threshold indicated is a Primary standard and is enforceable on community water systems; Secondary = The threshold indicated is a non-enforceable standard on community water systems and is the suggested contaminant level to reduce health risks and/or improve aesthetic qualities of water such as taste, odor, and color. Private wells serving less than 15 connections or 25 people are NOT considered to be community water systems and therefore not under the jurisdiction of agencies regulating drinking water such as the EPA and CDPHE. The community water system standards are presented for sake of reference for risk evaluation to human health and other aesthetic qualities shown. (3) Hardness Scale: Soft <75 Moderately Hard 75-120 Hard 120-200 Very Hard >200

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### Water Quality Results Chris Janusz

Analyte	Category	Units	Detection Level <sup>(1)</sup>	Result	Threshold	Regulation <sup>(2)</sup>	Status	
rsenic	Metals Analysis	mg/L	0.0005	0.001	0.01	Primary	Pass	
Cadmium	Metals Analysis	mg/L	0.005	U	0.01	Primary	Pass	
Calcium, dissolved	Metals Analysis	mg/L	0.1	87	N/A	N/A	N/A	
Copper	Metals Analysis	mg/L	0.02	U	1.3	Primary	Pass	
ron *	Metals Analysis	mg/L	0.02	0.24	0.30	Secondary	Pass	
ead eae.	Metals Analysis	mg/L	0.0001	0.0002	0.015	Primary	Pass	
Magnesium	Metals Analysis	mg/L	0.2	25.6	N/A	N/A	N/A	
Manganese	Metals Analysis	mg/L	0.005	U	0.050	Secondary	Pass	
Sodium	Metals Analysis	mg/L	0.2	22.9	N/A	None	Pass	
linc	Metals Analysis	mg/L	0.01	U	5.0	Secondary	Pass	01
Chloride	Wet Chemistry	mg/L	2.5	28.9	250	Secondary	Pass	
Collforms, fecal	Wet Chemistry	#/100 ml	1	0	11	Primary	Н	
luoride	Wet Chemistry	mg/L	0.25	0.33	4.0	Primary	Pass	
Sulfate	Wet Chemistry	mg/L	2.5	120	250	Secondary	Pass	
Vitrate	Wet Chemistry	mg/L as N	0.02	1.00	10,0	Primary	Pass	
Vitrite	Wet Chemistry	mg/L as N	0.01	U	1.0	Primary	Pass	
Total Nitrate and Nitrite	Wet Chemistry	mg/L as N	0.02	1.00	10.0	Primary	Pass	
Alkalinity, Bicarbonate	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	232	N/A	N/A	N/A	
Alkalinity, Total	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	232	N/A	N/A	N/A	
Carbonate	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	U	N/A	N/A	N/A	1
Hydroxide	Wet Chemistry	mg/L as CaCO <sub>3</sub>	2	Ü	N/A	N/A	N/A	
Corrosivity (calc.)	Wet Chemistry	SI unit	N/A	1.0	N/A	N/A	N/A	
Conductivity, @ 25°C	Wet Chemistry	µS/cm	1	725	N/A	N/A	N/A	
Hardness <sup>(3)</sup>	Wet Chemistry	mg/L as CaCO <sub>3</sub>	1	323	N/A	N/A	N/A	
pH	Wet Chemistry	Standard Units	0.1	8.2	6.5 < pH < 8.5	Secondary	Pass	
Sodium Absorption Ratio	Wet Chemistry	N/A	N/A	0.56	N/A	N/A	N/A	
Total Dissolved Solids	Wet Chemistry	mg/L	10	454	500	Secondary	Pass	
Gross Alpha Activity	Radiochemistry	pica/L	2	5.4	15.0	Primary	Pass	
Gross Beta Activity	Radiochemistry	pCi/L	2.2	5.4	50.0	Primary	Pass	
Uranium	Metals Analysis	mg/L	0.0001	0.0034	0.030	Primary	Pass	

Result of "u" = analyte not detected at level equal or above the detection level shown.

<sup>(2)</sup> Primary = The threshold indicated is a Primary standard and is enforceable on community water systems; Secondary = The threshold indicated is a non-enforceable standard on community water systems and is the suggested contaminant level to reduce health risks and/or improve aesthetic qualities of water such as taste, odor, and color. Private wells serving less than 15 connections or 25 people are NOT considered to be community water systems and therefore not under the jurisdiction of agencies regulating drinking water such as the EPA and CDPHE. The community water system standards are presented for

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