

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9530

Exam Date: 09/24/2019

1. Current Owner:
FRED GRUBB 11470 N CARISSA CT HAYDEN ID 83835-5136 AND/OR
SUANNE DEDMON 11470 N CARISSA CT HAYDEN ID 83835-5136

2. Accompanied by: Fred Grubb
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9643	Groundwater	Municipal	
96-9644	Groundwater	Municipal	

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SE¼ NE¼, Sec. 32, Twp 53N, Rge 03W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD located at -116° 43.361, 47° 53.858

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
53N	03W	32				3.4									0.2				3.6

Total Acres: 3.6

Method of Determination: Google Earth and Arcmap

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.
 Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
☒ 1:24,000 or greater.
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0054667	GOULDS	5	18GS50432		

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: N/A

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method: See attached pump curve showing a diversion rate of 28 gpm or 0.06 cfs based upon the 364 foot depth to pump.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.6 \text{ AC} \times 3.0 = 10.8 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \text{ CFS} \times 214 \times 1.9835 = 25.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 10.8 \text{ AF}$$

2. Volume Calculations for Other Uses: None

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Fred Grubb, the applicant, showed a well being used for irrigation. Mr. Grubb was unsure at time of exam what size pump was installed though it had just been replaced with the same sized pump. The applicant emailed the pump installers receipt and it showed they had installed a 5hp Goulds pump. I was unable to perform a measurement at time of exam due to how the system was plumbed with no proper access to either perform a flow measurement or 5 gallon bucket test. I was able to visit the Goulds website and find a pump curve that showed it was able to produce 28 gpm or 0.06 cfs.

The applicant was only irrigating around the house during the time of exam. The nursery stock had been removed and had yet to be replanted. The irrigation along driveway had not been kept up this year because the applicant had been out of town most of the summer. The irrigation was equal to 3.6 acres based upon aerial photography during the permit period at its peak. The applicant had also applied for domestic use from the well though during the exam he said the well would only be a backup source. Mr. Grubb said he got domestic water from Rickel Water Co covered under 95-9644 for municipal water. A phone call was placed to the water company to ask if Mr. Grubb had put a backflow preventer so he could be hooked to the well and the system and they said he had not. Domestic use from the well will not be licensed as it was not hooked to the home and beneficially used. Irrigation will be licensed with a diversion rate of 0.06 cfs for the 3.6 acres with an annual volume of 10.8 acre-feet.

The permit was issued for domestic and commercial with a condition stating the commercial use was for a tree farm. The application appeared to originally show domestic and irrigation though a line had been drawn through irrigation and replaced with commercial. The place of use grid on the application showed 18 acres of irrigation which was also crossed out and replaced with commercial. The only use of water was for irrigation and not commercial use which would be for uses outside of the irrigation season, usually in a greenhouse. Because there is no commercial use and it appears the applicant originally applied for irrigation, the license use will be changed to irrigation.

All conditions on the permit will be removed except 004 and 01R. Condition R66 will be added to describe the irrigation limitations. There is no overlap concern because the well is not hooked to the home and the only other use is municipal under rights 95-9643 and 95-9644.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.06 CFS	10.8 AF

Totals: 0.06 CFS 10.8 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 9/24/2019

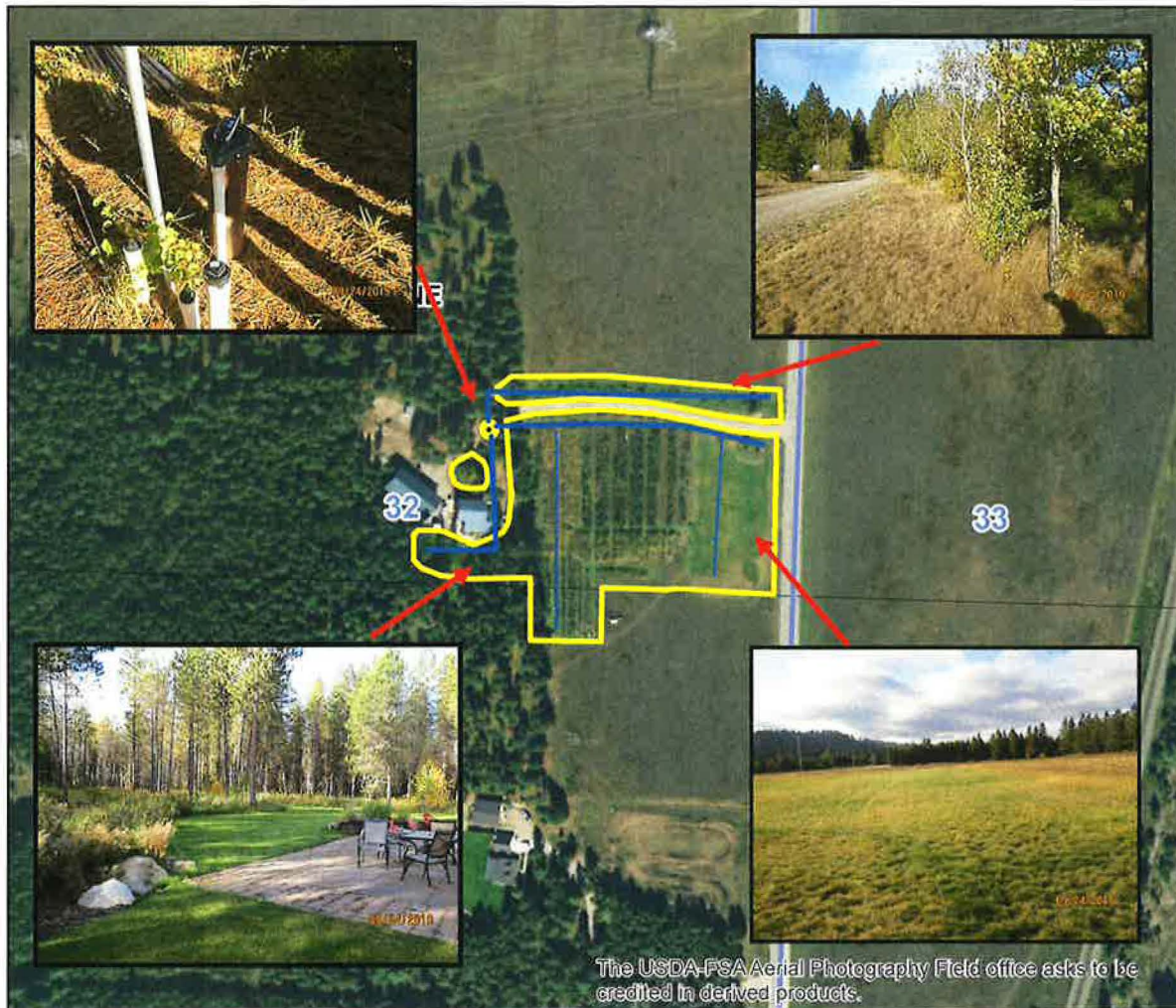
Reviewer Douglas Jones P.E. Date 10/2/19

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-9530

IRRIGATION / SYSTEM DIAGRAM

03W

53N



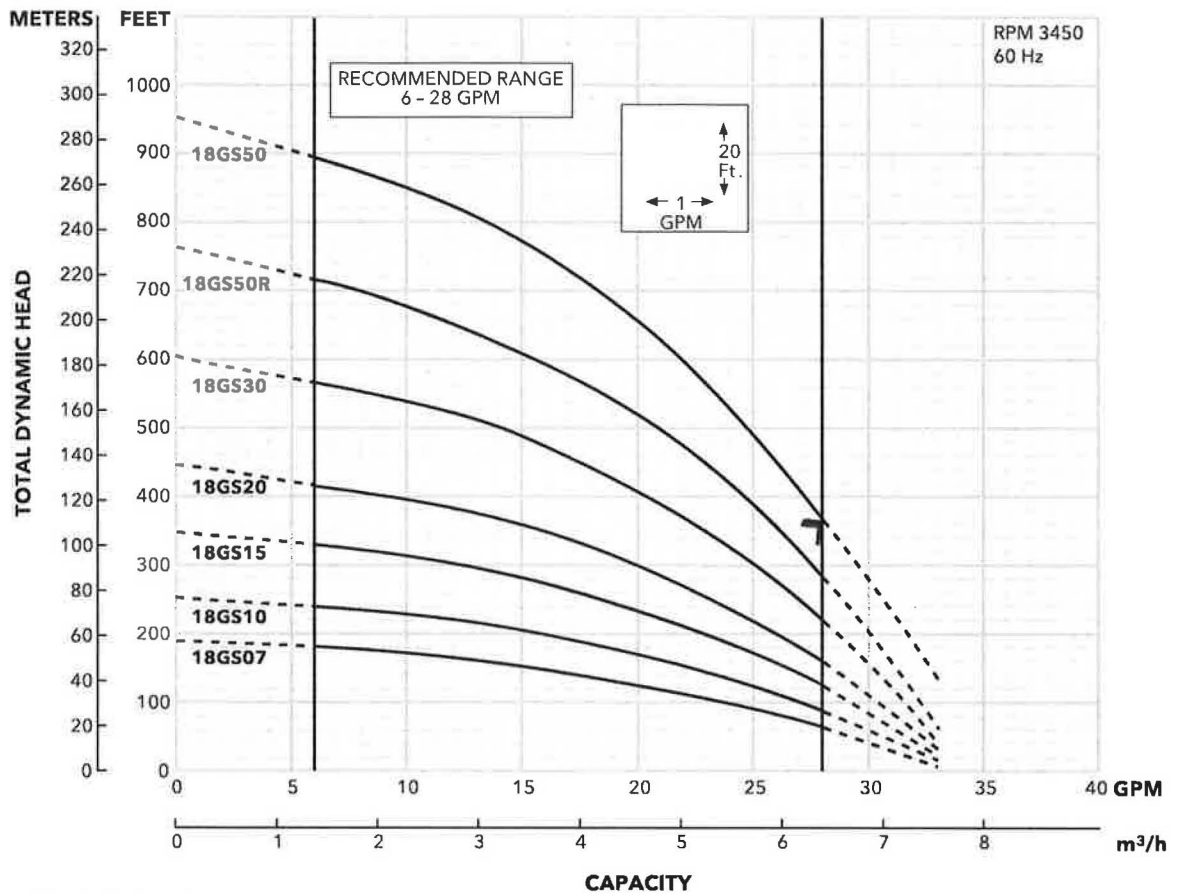
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles

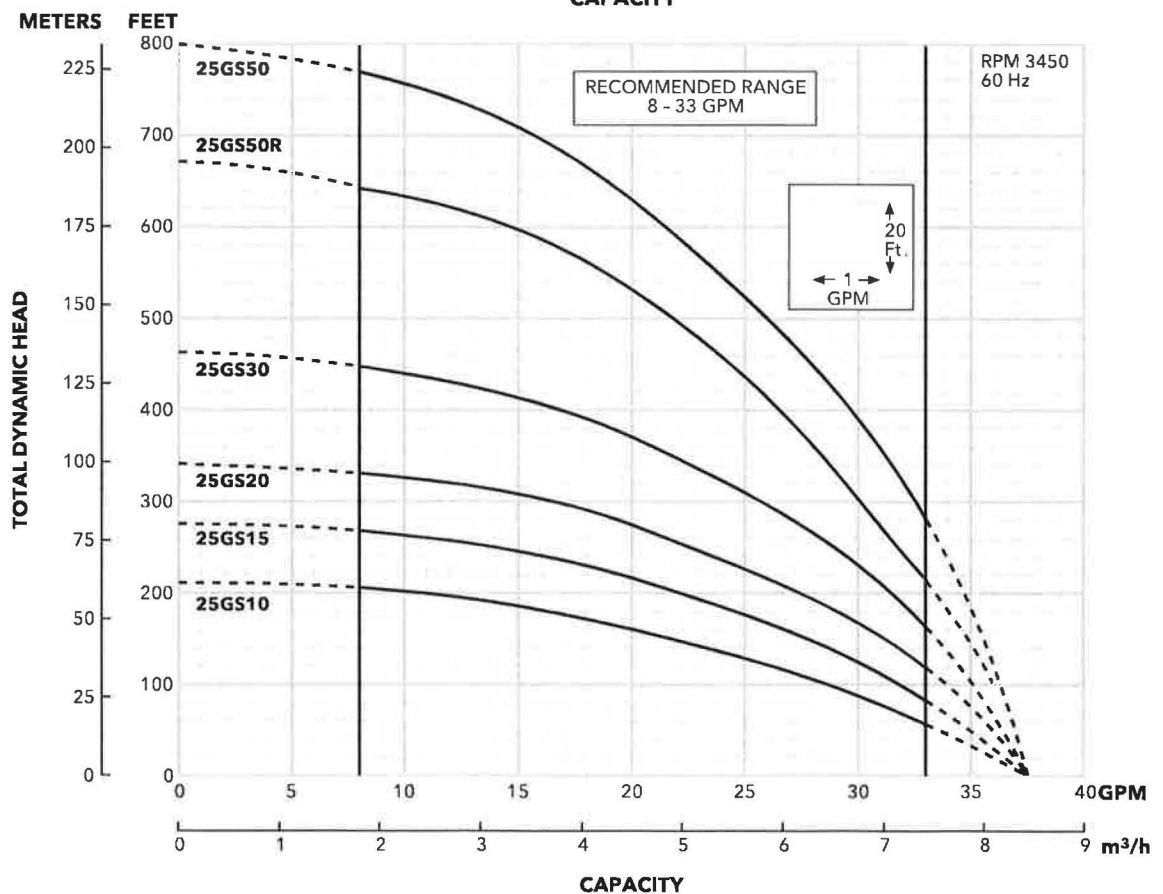


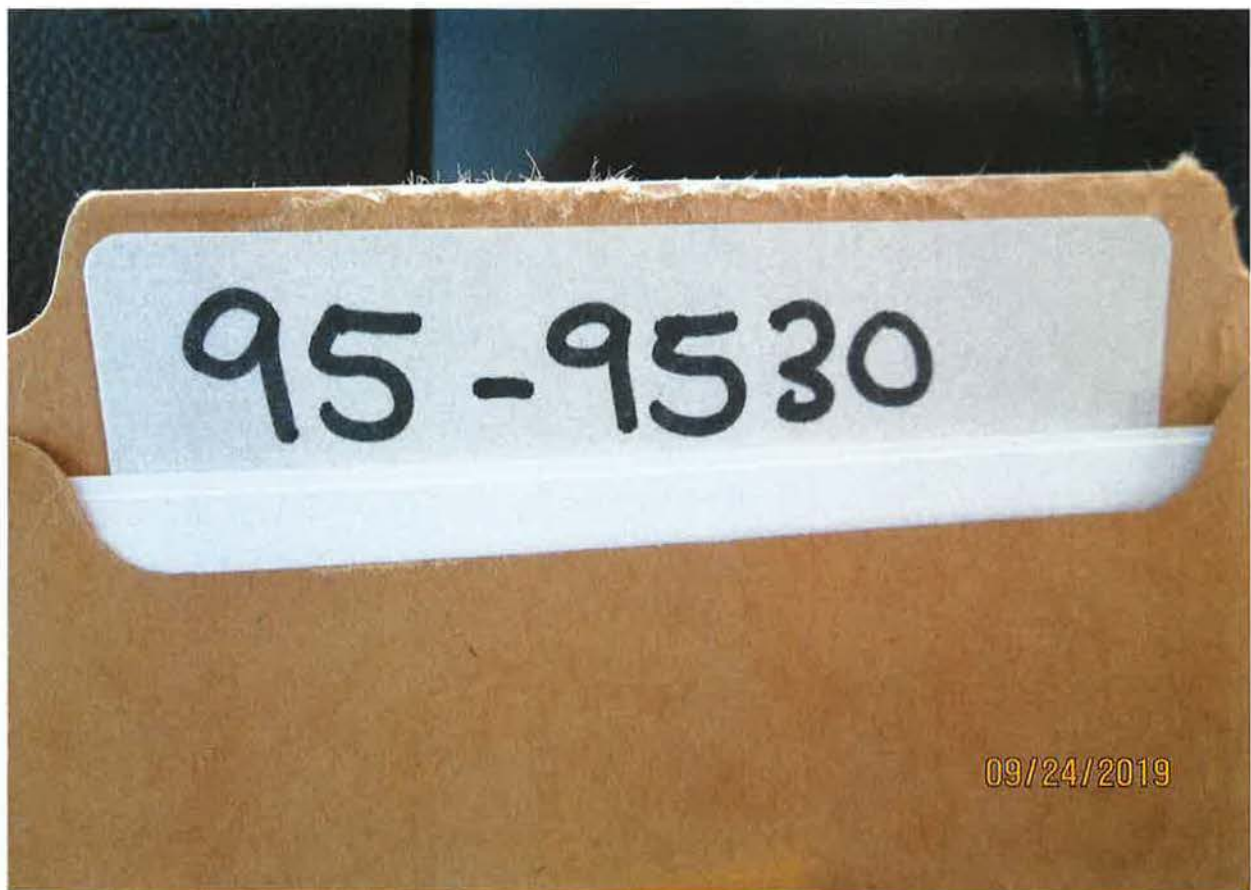
Residential Water Systems

Model 18GS



Model 25GS



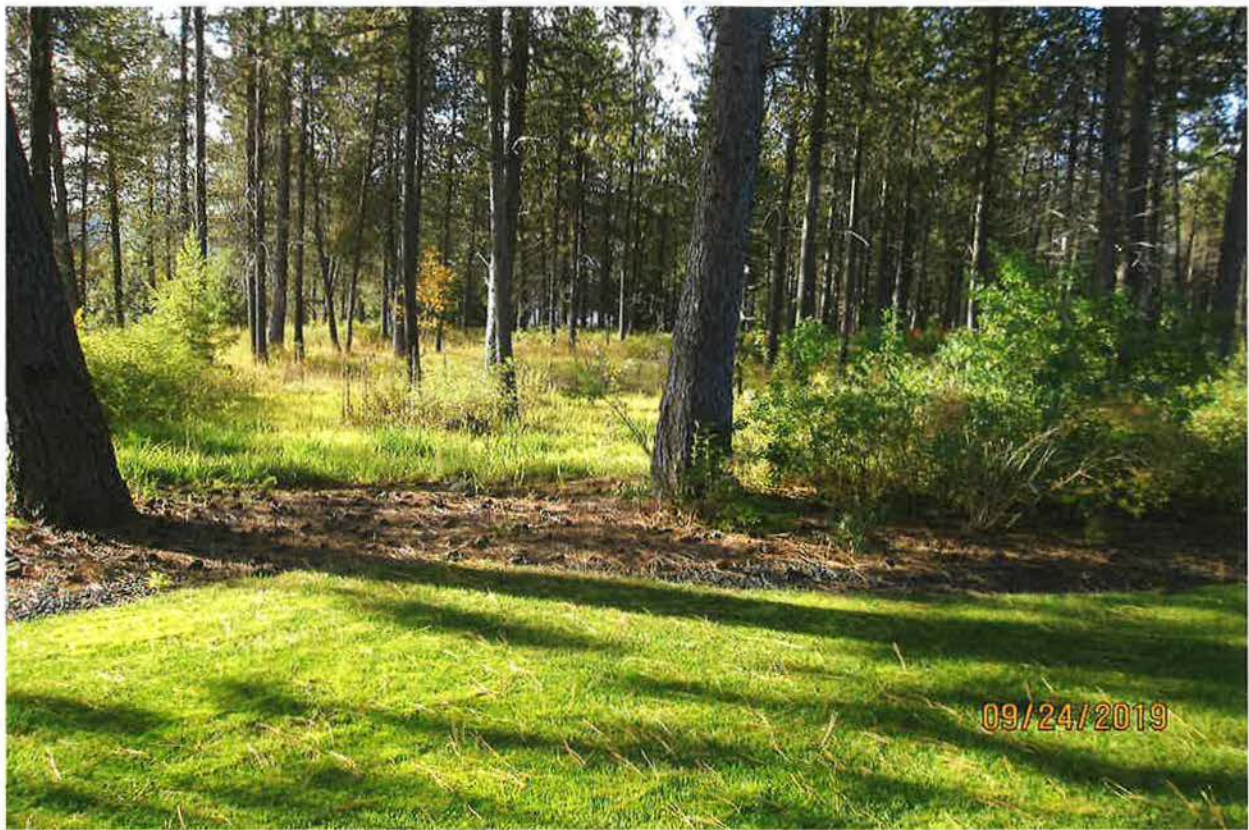


Well D0054667 with 5hp pump.



Irrigation POU.





Irrigation POU.





Irrigation POU.





Irrigation POU.





Location where nursery stock was grown and irrigated though hadn't been replanted yet.





Nursery stock irrigation system.



The following application(s) have been filed to appropriate the public waters of the State of Idaho:

85-15803

ROBERT KONEN

32073 WAHA RD

LEWISTON, ID 83501-7819

Point of Diversion SWSWNE

S26 T35N R05W

NEZ PERCE County

Source SPRING

Tributary SINKS

Point of Diversion SENE

S26 T35N R05W

NEZ PERCE County

Source UNNAMED STREAM

Tributary SINKS

Use: IRRIGATION

02/15 to 11/30 0.15 CFS

Total Diversion: 0.15 CFS

Date Filed: 9/13/2019

Place Of Use: IRRIGATION

T35N R04W S26 SWNE

Total Acres: 5

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Northern Region office at (208) 762-2800. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Northern Region, 7600 N MINERAL DR STE 100, COEUR D ALENE ID 83815-7763 together with a protest fee of \$25.00 for each application on or before 10/21/2019. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 10/3/2019 and 10/10/2019