



IVINS CITY

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WATER USAGE FORM SUBMIT WITH PRELIMINARY PLAN

SUBDIVISION NAME: _____

Number of Equivalent Residential Units (ERUs) _____

Total Subdivision Acreage: _____ acres Estimated Irrigated Acreage: _____ acres

Annual Water Usage:

Indoor: 0.45 AF/ERU X ERUs = _____ acre-feet

Outdoor: 3.26 AF/Irr. Ac. X Irrigated Acreage = _____ acre-feet

Total: Indoor + Outdoor = _____ acre-feet

Peak Day Demand:

Indoor: 0.56 gpm/ERU X ERUs = _____ gpm

Outdoor: 4.9 gpm/Irr. Ac. X Irrigated Acreage = _____ gpm

Total: Indoor + Outdoor = _____ gpm

Peak Instantaneous Demand:

Indoor: 10.8 x (ERUs)^{0.64} = _____ gpm

Outdoor: 9.8 gpm/Irr. Ac. X Irrigated Acreage = _____ gpm

Total: Indoor + Outdoor = _____ gpm

Storage Requirement:

Indoor: 400 gal/ERU X ERUs = _____ gallons

Outdoor: 4,964 gal/Irr. Ac. X Irrigated Acreage = _____ gallons

Total: Indoor + Outdoor = _____ gallons

Fire Flow Calculation (IFC Appendix B):

Building Type (See IBC) _____

Maximum Building Area _____ square feet

Fire Flow Requirement (see IFC Table B105.1) _____ gpm

Fire Flow Duration (see IFC Table B105.1) _____ hours

Fire Storage Requirement _____ gallons

Notes:

1. Refer to Utah Administrative Rules R309-510
2. If irrigated acreage is less than 0.125 acres per lot, then provide justification.

Abbreviations:

- ERU: Equivalent Residential Unit
- Irr. Ac.: Irrigated Acres
- gpm: gallons per minute
- IFC: 2003 International Fire Code
- IBC: 2003 International Building Code