

# Blue Sky Ranch, Association of Owners Contingency Plan For Emergency Response

---

Durango, Colorado La Plata County  
July 1, 2015

## Primary Contact Information

Name	Rob Johnston
Title	Water Committee Member
Address	1 Blue Sky Drive, Durango, CO 81301
Phone Number	970-759-0444
Alternate Phone Number	



Prepared by: Rob Johnston  
Water Committee Member  
For the Community Water Provider:  
**Blue Sky Ranch, Association of Owners**  
PWSID# CO0134065

The following table provides a way to track any future reviews or updates of this Contingency Plan.

Date of Review	Reviewed By	Changes or Comments
7-1-15	Rob Johnston	Creation

## CONTENTS

INTRODUCTION .....	3
SYSTEM INFORMATION .....	3
Basic Description of the Water System .....	4
EMERGENCY RESPONSE .....	5
Emergency Response Activities .....	5
Chain of Command List .....	5
ALTERNATIVE WATER SUPPLY OPTIONS.....	6
Procedure for Evaluating Alternative Water Supply Options:.....	6
Alternative Water Supply Options:.....	6
PRIORITY WATER USERS .....	6
CONSERVATION MEASURES .....	7
EMERGENCY CONTACTS .....	7
EMERGENCY PUBLIC RELATIONS .....	8
EVENT AND ACTION LOG .....	9

## INTRODUCTION

The purpose of this contingency plan is to establish and to keep up to date the procedures necessary to utilize alternative water supply sources in the event of the contamination or loss of the existing sources.

This Contingency Plan was produced as a component to the Blue Sky Ranch's Source Water Protection Plan in accordance with the Colorado Department of Public Health and Environment's Source Water Assessment and Protection (SWAP) Program. A Source Water Protection Plan is designed to:

- Create an awareness of the community's drinking water sources and the potential risks to surface water and/or groundwater quality within the watershed;
- Encourage education and voluntary solutions to alleviate pollution risks;
- Promote management practices to protect and enhance the drinking water supply;
- Provide for a comprehensive action plan in case of an emergency that threatens or disrupts the community water supply.

This Contingency Plan serves as the final component in the list above. It is not designed to fulfill the requirements of a more comprehensive public water supply emergency operating plan that would be designed to deal with a wide array of emergencies beyond the contamination of existing sources.

## SYSTEM INFORMATION

Name of Water System	Blue Sky Ranch, Association of Owners
Public Water System ID #	CO0134065
Water System Address	1 Blue Sky Drive
Population Served	approximately 175 people and 6 acres open space
Number of Service Connections	44
Average Daily Demand	4,500 to 10,000 gallons per day (winter, spring)
Maximum Daily Demand	70,000 to 5,000 gallons per day (summer, fall)
Interconnections with other Public Water Systems	None

Normal Power Source	Yes, La Plata Electric
Emergency Power Source	None
Location of Water System Maps and Records	In pump house, with water operator in responsible charge and Water Committee Member Rob Johnston

### **Basic Description of the Water System**

The Blue Sky Ranch Subdivision is served by two wells drilled into an unconfined aquifer of alluvial sediment about 1/2 mile west of the Animas River and east of Highway 550 North of Durango, Colorado. Well #1 is located at 37.40435, -107.83397, and Well #2 is located at 37.40393, -107.83382. Filed with the Colorado Department of Public Health and Environment as Public Water System Identification (PWSID) No. CO0134065.

The legal maximum pumping rate is 150 gpm and since inception of production in 1993, the water supply is more than ample and the systems capabilities are excellent.

The distribution system consists of a looped main distribution water main of 6" and 4" sized PVC pipe. Approximately 3000 feet in length. Water services to individual homes consist of 1" copper services from the main line. A number of frost proof hydrant risers (estimated at 7) are spaced though out the common areas to provide the common ground with irrigation. There is backflow prevention devices (atmospheric vacuum breakers) installed on each hydrant for summer usage.

The wells serve 44 single family homes, about 175 people, and can produce enough water to also successfully irrigate individual yards and a green belt that runs through the subdivision consisting of approximately 6 acres.

Each well has its own 3 inch pvc line into the treatment building where the pvc converts to steel. Two 150 gallon pressure tanks provide a negligible amount of storage and serve mainly to allow chlorine contact time and to allow the well pumps to rest at least 3 minutes before the pressure switches call for more water.

Each well can be isolated in the treatment building to operate independently of the other. They normally alternate each 24 hour period by means of a timer on the control panel. By the use of pressure switches, settings to co-mingle production are achieved during periods of high demand. Also, if one well fails, the other will automatically start production when the pre-set low pressure setting is reached. An alarm on the control panel is then activated to alert personnel that only one well is actively operating.

Each well has its own Pulsafeeder chlorine injection system and solution barrel employing Regular Clorox Bleach in the treatment building. The chlorine pumps activate automatically when the individual well pump comes on and inject the correct amount of chlorine solution into the incoming stream. After chlorination, the separate well piping converges to a single 6 inch line and is metered before leaving the treatment building into distribution.

Table 1 Blue Sky Ranch Subdivision Groundwater Supply Information

Water System Facility Name	Water System Facility Number	Total Depth of Well (ft)	Depth of Plain Casing (ft)	Depth of Perforation (ft)	Yield (gpm)	Year Drilled	Permit Number	Annual Permitted Amount (acre feet)
Well #1	CO-0134065	62	0 to 40	40-60	150	1981	40365-F	50
Well #2	CO-0134065	95	0-60	40-60	150	1993	42529-F	50

## EMERGENCY RESPONSE

### Emergency Response Activities

If any spills and/or other contaminations occur near or around the well heads shut off breakers to wells in pump house until spill is contained, cleaned up and cleared no commination infiltrated the soil to the water source.

Loss of power, wait for La Plata Electric. For prolonged periods of power loss, hire an electrician and hard wire from a generator to the power source and run one well. (Note: BSR is working on implementing emergency power backup by installing and implanting a natural gas generator).

In case of distribution pipeline failure, notify persons on the chain of command list and those persons in responsible charge will coordinate for water shut off, repairs and re-establishment of water service.

### Chain of Command List. In the event of a water system emergency, contact:

Contact Name	Title	Telephone Number	Alternative Communication Source
Rob Johnston	Water Committee Member	970-759-0444	
Fred Stephenson	Operator in responsible charge	970-759-0462	970-247-4271
Clint Brooks	Pump & Operations Contractor	970-749-7769	970-259-3848
Waldo Excavation (Kurt Waldo)	Water Line Repairs	970-759-6920	

## ALTERNATIVE WATER SUPPLY OPTIONS

### Procedure for Evaluating Alternative Water Supply Options:

Bottled water.

### Alternative Water Supply Options:

Alternative Water Supply	Details
Emergency Treatment	Chlorination of contaminated wells
Boiled Water	Boil water based on any State Mandates
Bottled Water	Purchase from Store
Storage Tank(s)	Create Storage using Tank(s)

## PRIORITY WATER USERS

If appropriate to your system, reducing water demand by conservations measure may lessen or eliminate the necessity of utilizing an alternative water supply option.

Priority Number	Water User
1	Residence
2	Irrigation of Residence property
3	Irrigation of open space

## CONSERVATION MEASURES

Measures	Details
Curtail use by larger users	Upon direction by Blue Sky Ranch, Association of Owners Board/Water committee members
Reduce pressure	Upon direction by Blue Sky Ranch, Association of Owners Board/Water committee members
Implement metering program	Upon direction by Blue Sky Ranch, Association of Owners Board/Water committee members
Mandatory water conservation measures	Upon direction by Blue Sky Ranch, Association of Owners Board/Water committee members
Public education	Upon direction by Blue Sky Ranch, Association of Owners Board/Water committee members

## EMERGENCY CONTACTS

Organization	Contact Person	Phone Number	Alternative Communication Source
Water System Management and Employees	Fred Stephenson Rob Johnston	970-946-8943 970-759-0444	970-247-4271
Community Offices and Officials	Butch Knowlton La Plata County Director of Emergency Preparedness	970-749-8122	
Police	911		
Fire	911		
CDPHE		303-692-2000	877-518-5608
Colorado Rural Water Association		719-545-6748	crwa@comcast.net
Nearby Water Systems	Animas Water Company	970-259-4788	970-385-2665

## EMERGENCY PUBLIC RELATIONS

Primary spokesperson for the media and public comment in the event of a contamination incident

Name	<b>Rob Johnston</b>
Title	Water Committee Member
Address	156 Blue Sky Drive, Durango, CO 81301
Phone Number	970-759-0444
Alternative Communication Source	johnstonland@frontier.net

Contamination Information Checklist to be conveyed to the public and media

**Instructions:** This list is to be used as reference in the event of a contamination or other emergency incident.

- Name of water system
- Contaminant of concern
- Date of Incident
- Source of contamination
- Public health hazard
- Steps the public can take
- Steps the water system is taking
- Other information

## EVENT AND ACTION LOG<sup>1</sup>

**Instructions:** This table should be left blank and filled out in the event of a contamination or other emergency incident.

Description of Event	
Date and Time of Event	
Action Taken	
Evaluation of Action	
Costs to Water System (labor, equipment, & materials)	
Contract Services	

---

<sup>1</sup> This type of information may be needed in the event that the water system attempts to receive federal/state emergency relief funding assistance