

IDAHO DEPARTMENT OF WATER RESOURCES

--- DAM SAFETY RECORD OF INSPECTION ---

Inspector: Erik Boe	Dam Owner: Jenkins Creek Ranch	Hazard: Low
Pool Level: Dry	Dam Height: 40.9 feet	Hydraulic Ht: 39.8 feet
Reservoir Storage: 175 acre-feet	Surface Area: 11 acres	NAT DAM ID: ID00215
Others Present: None	Weather Conditions: Clear, mild, dry	

PRIMARY DAM OR IMPOUNDING STRUCTURE

Applicant's
Exhibit

16

Type of Construction: ☒ - Earthen ☐ - Rockfill ☐ - Concrete ☐ - Timber Crib ☐ - Other:

Instrumentation: ☐ - Piezometers ☐ - Inclinometers ☐ - Seismic ☒ - Other: None

Is there another dam, dike, or hydraulic structure impounding a portion of this reservoir? ☐ - Yes ☒ - No

If "Yes", explain:

	Seepage	Erosion	Animal	Vegetation
Upstream Slope	Dry	Benching	None Observed	Dense Grass/Weeds
Crest	Dry	None Observed	Isolated Burrows	Bare to Sparse
Downstream Slope	Dry	None Observed	Isolated Burrows	Dense Grass/Weeds
Downstream Toe	Dry	None Observed	Isolated Burrows	Mixed Vegetation
Left Abutment	Dry	None Observed	None Observed	Dense Grass/Weeds
Right Abutment	Point Source Seepage	None Observed	None Observed	Mixed Vegetation

Observations and Remarks:

- Embankment is buttressed with two concrete walls. One wall is parallel to the dam crest on the downstream face. The second wall intersects and runs perpendicular to the other wall.
- US Slope: Minor benching erosion at numerous elevations as the pool level dropped over the course of the irrigation season. Dense growth of weeds carpet the slope.
- Crest: Relatively wide; width is approximately 60 feet.
- DS Slope: Covered with dense grass and weeds with woody vegetation in the area above/around the outlet.
- DS Toe: Dense woody vegetation obscures ability to visually inspect the outlet.
- Leak: the historical leak near the right downstream groin and toe of embankment appeared as a seep (small amount of pooling water) with no flow. Noteworthy since the reservoir was dry. The general consensus from previous inspections going back to when the dam was first constructed is that the leak (1) appears to flow between embankment material and the basalt outcrop it abuts, (2) flows clear, (3) flowrate increases with pool level, up to ~100 gpm.
- Fair condition assessment based on above stated observations.

Condition Assessment

☐ - Satisfactory ☒ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated (See Remarks)

Is this structure suitable for the continued impoundment of water? ☒ - Yes ☐ - No

Recommended Action:

Recommend dam owner (1) remove all woody vegetation from the embankment, especially around the outlet at the toe of the dam, (2) eradicate all burrowing animals and repair existing burrows, and (3) monitor the historical leak described above, especially when filling, look for significant changes in flow, color or accumulation of material.

Name of Dam: Jenkins Creek

IDWR File No: 67-2097

Date: 9/17/2018

001393

PRIMARY OUTLET ☐

Size/ Diameter: 12-inch Date Last Operated: Seasonally Date Last Inspected: Unknown

Type of Conduit: ☐ - Steel ☐ - Plastic ☒ - Concrete ☐ - Cast Iron ☐ - CMP ☐ - Other _____

Location: ☐ - Left Side ☒ - Center ☐ - Right Side ☐ - Other _____

Operating Mechanism: ☒ - Manual ☐ - Electric ☐ - Gas/Diesel ☐ - Other _____

Valve/Gate: ☐ - Upstream Control ☒ - Internal Control (wet well) ☐ - Downstream Control (pressurized)

Is there another outlet or discharge feature associated with this reservoir? ☐ - Yes ☒ - No

If "Yes", explain: _____

Observations and Remarks:

- No flows, reservoir was dry.
- Concrete outlet controls are reportedly functional.
- Inlet structure was free and clear of debris.
- Outlet at toe of dam is obscured by dense growth of woody vegetation; recommend clearing out all of the vegetation to allow for visual inspection.
- Fair condition assessment based on above stated observations.

Condition Assessment

☐ - Satisfactory ☒ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated (See Remarks)

PRIMARY SPILLWAY

Type of Construction: ☒ - Earthen ☐ - Rock ☐ - Concrete ☐ - Other _____

Location: ☒ - Left Side ☐ - Center ☐ - Right Side ☐ - Other _____

Controlled Entrance: ☐ - Yes ☒ - No If "Yes", describe: _____

Inflow Design Flood (Q=cfs): Q100 = 80 cfs Static Freeboard (feet): 1.1 feet

Is an auxiliary spillway or discharge feature associated with this reservoir? ☐ - Yes ☒ - No

If "Yes", explain: _____

Observations and Remarks:

- Spillway is free and clear of debris.
- Spillway channel material appears erodible, but rarely used since the impoundment is situated off the main Jenkins Creek channel and filled via a canal diversion.
- Fair condition assessment based on above stated observations.

Condition Assessment

☐ - Satisfactory ☒ - Fair ☐ - Poor ☐ - Unsatisfactory ☐ - Not Rated (See Remarks)

Name of Dam: Jenkins Creek

IDWR File No: 67-2 97

Date: 9/17/2018

001394



Photo 1: Jenkins Creek dam as viewed from above on the left abutment; note wide crest width.



Photo 2: Downstream drainage as viewed from dam crest.



Photo 3: Upstream slope; note minor amount woody vegetation.

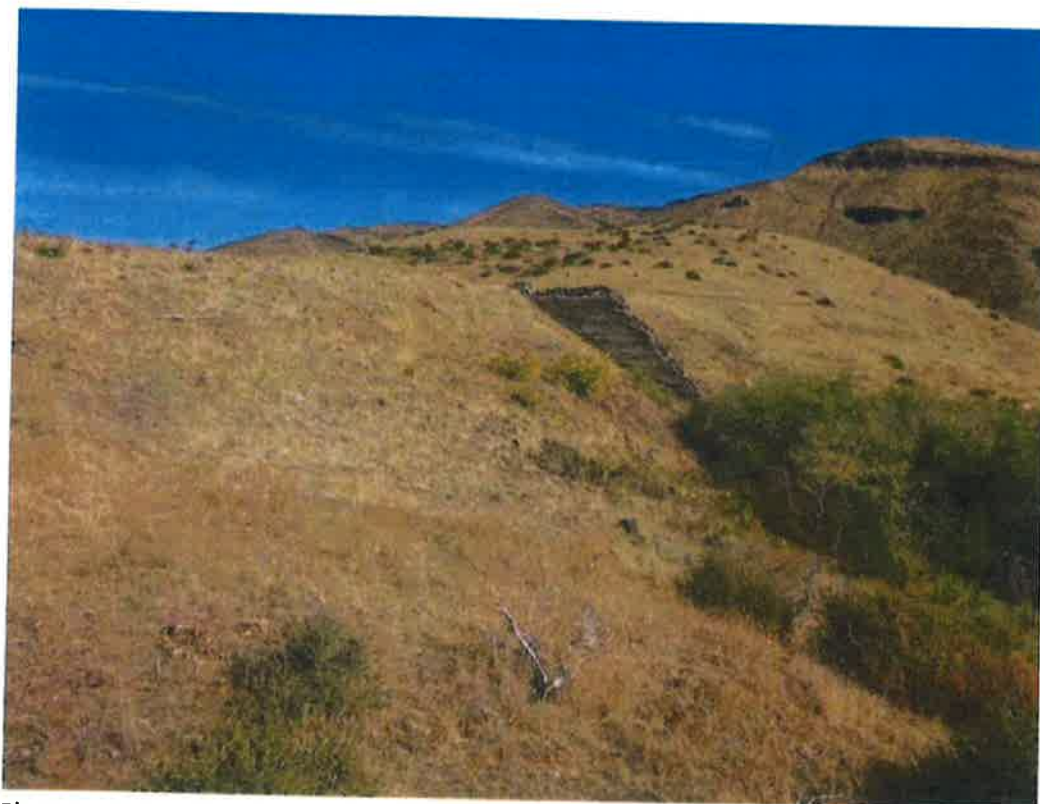


Photo 4: Downstream slope; note outlet at toe of dam is obscured by the visible woody vegetation.



Photo 5: Outlet controls.



Photo 6: Inlet to outlet works; note free and clear of debris.

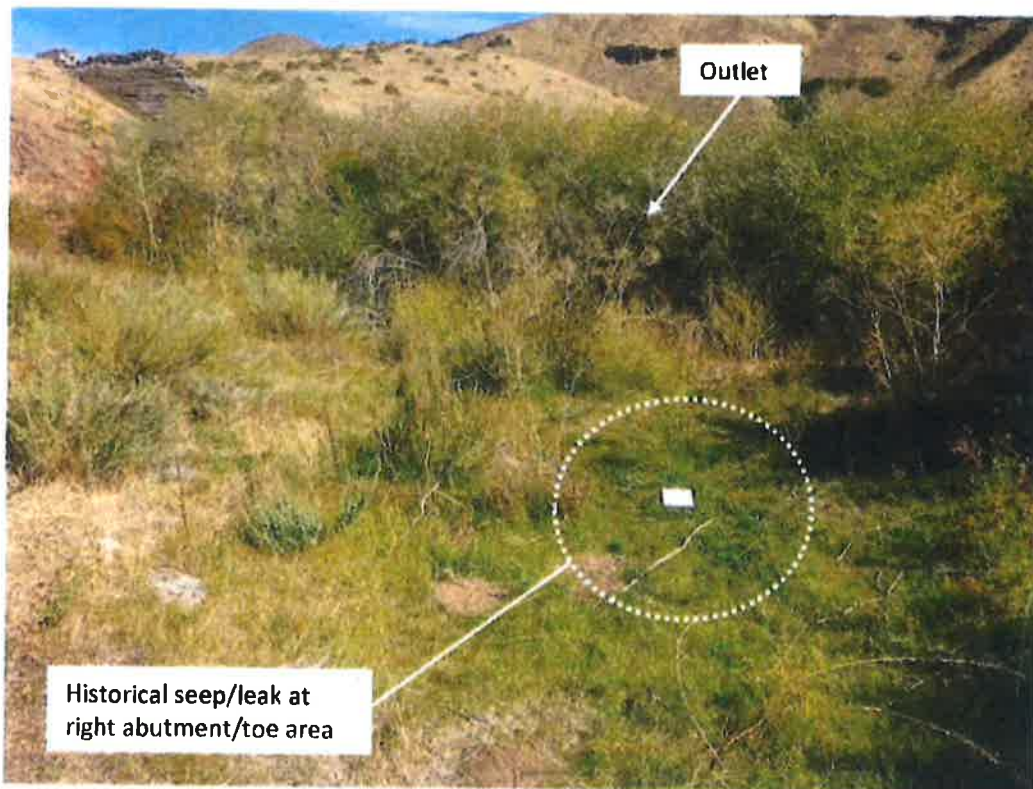


Photo 7: Outlet at toe of dam is obscured by woody vegetation; note location of historical seepage.



Photo 8: Open channel spillway located on left abutment.