

General
 Spring Name _____ Springs Online ID# _____
 Country _____ State _____ County _____
³Land Unit _____ Land Unit Detail _____
 Quad _____ HUC _____

Site Description

Georef
⁴Georef Source _____ Device _____ Datum _____
 UTM Zone _____ UTM East _____ UTM North _____
 Lat _____ Long _____ Elev _____ ft or m
 EPE _____ ft or m Declination _____ Comment _____

Access Directions

SPF
 Sunrise: D _____ J _____ N _____ F _____ O _____ M _____ S _____ A _____ A _____ M _____ J _____ J _____ Latitude checked?
 Sunset: D _____ J _____ N _____ F _____ O _____ M _____ S _____ A _____ A _____ M _____ J _____ J _____

Survey
 Date _____ Begin Time _____ End Time _____
 Surveyors _____
 Project _____

Site Condition

Description	Area (m ²)	⁵ Surf Type	⁶ Sub-Type	⁷ Slope Var	Aspect T/M	Slope Deg	⁸ Soil moist	Water dpth(cm)	%	⁹ Substrate %										Prec %	Litter %	Wood %	Litter (cm)					
										1	2	3	4	5	6	7	8	Org	Oth									
A																												
B																												
C																												
D																												
E																												
F																												
G																												

Images
 Whose Camera Used _____
 Sketch Map Location _____

Photo #	Description (caption)

Entered in database by _____ Date _____ Checked by _____ Date _____

1	Discharge Sphere (Spring Type) Anthropogenic Cave Exposure Fountain Geyser Gusher Hanging Garden Helocrene Hillslope Hypocrene Limnocrene Mound-form Rheocrene	8	Soil Moisture 0 - Dry 1 - Dry-Moist 2- Moist-Dry 3 - Wet-Dry 4- Moist 5 - Saturated-Dry 6 - Wet 7 - Saturated-Moist 8 - Wet-Saturated 9 - Saturated 10 - Inundated	16	Source Geomorphology Contact Spring Fracture Spring Seepage or filtration Tubular Spring 17 Flow Force Mechanism Anthropogenic Artesian Geothermal Gravity Other
2	Sensitivity None Location Survey Both	9	Substrate 1 clay 2 silt 3 sand (0.1-1mm) 4 fine (pea) gravel (1-10 mm) 5 coarse gravel (1-10 cm) 6 cobble /small boulders(10-100 cm) 7 large boulders (> 1 m) 8 bedrock Organic Soil, including peat Other (usually anthropogenic)	18/19	Parent Rock Type/Subtype Igneous andesite basalt dacite diorite gabbro grandodiorite granite peridotite rhyolite Metamorphic gneiss marble quartzite slate schist Sedimentary coal
3	Land Unit BLM DOE NPS Private State Tribal USFS Other	10	Lifestage Adult Egg Exuviae Immature Larvae Mixed Other Pupae Shell	20	Channel Dynamics Mixed runoff/spring dominated Runoff dominated Spring dominated Subaqueous Unconsolidated siltstone
4	Georeference Source GPS Map Other	11	Habitat AQ - Aquatic T - Terrestrial	21	Flow Consistency Dry intermittent Erratic intermittent Perennial Regular intermittent
5	Surface Type BW Backwall C Cave/Tunnel CH Channel CS Colluvial slope HGC High Grad. Clenega LGC Low Grad Clenega Mad Madiculous Flow P Pool PM Pool Margin SB Sloping Bedrock SZ Spray Zone SM Spring Mound TE Terrace Oth Other/anthropogenic	12	Method (Invertebrates) Spot Benthic	22	Measurement Technique Current meter Weir Flume Other
6	Surface Subtype CH Riffle, Run, Margin, Eph CS Wet, Dry SB Wet, Dry TE LRZ, MRZ, URZ, HRZ, UPL,LRZMRZ,LRZURZ, MRZURZ, HRZMRZ All Anthro (human influence)	13	Detection Type (Vertebrates) Call Observed Sign Reported (by others) Other	14	Cover Codes GC Ground Cover SC Shrub Cover MC Midcanopy Cover TC Tall Canopy Cover AQ Aquatic Cover NV Nonvascular (moss, etc) BC Basal Cover
7	Slope Variability Low, Medium, High	15	Emergence Environ/Detail Cave Subaerial Subglacial Subaqueous-lentic freshwater Subaqueous-lotic freshwater Subaqueous-estuarine Subaqueous-marine	15	Emergence Environ/Detail Cave Subaerial Subglacial Subaqueous-lentic freshwater Subaqueous-lotic freshwater Subaqueous-estuarine Subaqueous-marine

Geomorphology

¹⁵Emerg Env _____ ¹⁷Mechanism _____ Geologic Layer _____
¹⁵Detail _____ ¹⁸Rock Type _____ ²⁰Channel Dynamics _____
¹⁶Source Geomorphology _____ ¹⁹Rock Subtype _____

Polygon	¹ Discharge Sphere	¹ Secondary Discharge	Comments

Flow

²¹Flow Consistency _____ ²²Measurement Technique _____ Flow Rate (Mean) _____

Location of Measurements _____ Total Site % Captured _____

Discharge Comments _____

Reason if flow not measured (circle) diffuse outflow little outflow no outflow spring is dry hazard other _____

Current Meter		I/s	m/s	other	
Cell	Distance	Width	Depth	Reading	

Flume		I/s	m/s	other			
Point	Flume Size	Measurements	Avg Stage	% Flow			

Volume		I/s	m/s	other	
Point	Seconds	Liters	% Flow		

Weir		I/s	m/s	other		
Point	Weir Size	Measurements	% Flow			

Device 1 _____ Date Last Calibrated _____
 Device 2 _____ Date Last Calibrated _____
 Device 3 _____ Date Last Calibrated _____

Weather

Air Temp _____ C or F

Select one

- No current/recent precipitation
- Rain during survey
- Recent rain
- Snow on ground
- Snow, hail, or sleet during survey

Sampling Locations (circle) _____ (circle) _____

1	source down-gradient stream exiting wetland pool hole well other _____	standing water flowing water
comments _____		
2	source down-gradient stream exiting wetland pool hole well other _____	standing water flowing water
comments _____		
3	source down-gradient stream exiting wetland pool hole well other _____	standing water flowing water
comments _____		

Water Quality

Field Measurements

Location #	pH	EC	SC	Water Temp (°C)	Turbidity ntu	Dissolved O ² %	mg/L	Alkalinity mg/L	Salinity ppt	Other	Device

Collected for Analysis

Sample Type	Sample Taken?	Duplicate Taken?	Container	Filtered (Y/N)	Treatment
Anions					
Cations					
Nutrients					
² H and ¹⁸ O Isotopes					

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Spring Name _____ Date _____ Page ____ of ____ Obs _____

Information Source _____

Aquifer/WQ	Cond	Risk	Habitat	Cond	Risk	Human Influence	Cond	Risk	Administrative Context	Cond	Risk
Spring dewatered (Y/N)	<input type="checkbox"/>		Isolation	<input type="checkbox"/>	<input type="checkbox"/>	Surface water quality	<input type="checkbox"/>	<input type="checkbox"/>	Information quality/quantity	<input type="checkbox"/>	<input type="checkbox"/>
Aquifer functionality	<input type="checkbox"/>	<input type="checkbox"/>	Habitat patch size	<input type="checkbox"/>	<input type="checkbox"/>	Flow regulation	<input type="checkbox"/>	<input type="checkbox"/>	Cultural significance	<input type="checkbox"/>	<input type="checkbox"/>
Spring discharge	<input type="checkbox"/>	<input type="checkbox"/>	Microhabitat quality	<input type="checkbox"/>	<input type="checkbox"/>	Road/trail/railroad	<input type="checkbox"/>	<input type="checkbox"/>	Historical significance	<input type="checkbox"/>	<input type="checkbox"/>
Flow naturalness	<input type="checkbox"/>	<input type="checkbox"/>	Native plant ecological role	<input type="checkbox"/>	<input type="checkbox"/>	Fencing	<input type="checkbox"/>	<input type="checkbox"/>	Recreational significance	<input type="checkbox"/>	<input type="checkbox"/>
Flow persistence	<input type="checkbox"/>	<input type="checkbox"/>	Trophic dynamics	<input type="checkbox"/>	<input type="checkbox"/>	Construction	<input type="checkbox"/>	<input type="checkbox"/>	Economic value	<input type="checkbox"/>	<input type="checkbox"/>
Water quality	<input type="checkbox"/>	<input type="checkbox"/>	Score			Herbivory	<input type="checkbox"/>	<input type="checkbox"/>	Conformance to mgmt plan	<input type="checkbox"/>	<input type="checkbox"/>
Algal and periphyton cover	<input type="checkbox"/>	<input type="checkbox"/>	Biotic Integrity			Recreational	<input type="checkbox"/>	<input type="checkbox"/>	Scientific/educational value	<input type="checkbox"/>	<input type="checkbox"/>
Geomorphology			Native plant richness/diversity	<input type="checkbox"/>	<input type="checkbox"/>	Adjacent conditions	<input type="checkbox"/>	<input type="checkbox"/>	Environmental compliance	<input type="checkbox"/>	<input type="checkbox"/>
Site obliterated (Y/N)	<input type="checkbox"/>		Native faunal diversity	<input type="checkbox"/>	<input type="checkbox"/>	Fire influence	<input type="checkbox"/>	<input type="checkbox"/>	Legal status	<input type="checkbox"/>	<input type="checkbox"/>
Geomorphic functionality	<input type="checkbox"/>	<input type="checkbox"/>	Sensitive plant richness	<input type="checkbox"/>	<input type="checkbox"/>						
Runout channel Geometry	<input type="checkbox"/>	<input type="checkbox"/>	Sensitive faunal richness	<input type="checkbox"/>	<input type="checkbox"/>						
Soil integrity	<input type="checkbox"/>	<input type="checkbox"/>	Nonnative plant rarity	<input type="checkbox"/>	<input type="checkbox"/>						
Geomorphic diversity	<input type="checkbox"/>	<input type="checkbox"/>	Nonnative faunal rarity	<input type="checkbox"/>	<input type="checkbox"/>						
Natural physical disturbance	<input type="checkbox"/>	<input type="checkbox"/>	Native plant demography	<input type="checkbox"/>	<input type="checkbox"/>						
			Native faunal demography	<input type="checkbox"/>	<input type="checkbox"/>						

Notes:

Recommendations:

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