

COMMONWEALTH OF PENNSYLVANIA
ENVIRONMENTAL QUALITY BOARD

PETITION FORM

I. PETITIONER INFORMATION

Name: Clearfield Creek Watershed Association

Mailing Address: 316 Beldin Hollow Road

Ashville, PA 16613

Telephone Number: 814-238-2838

Date: ^{2/3/14}
~~1/11/14~~

II. PETITION INFORMATION

A. The petitioner requests the Environmental Quality Board to (check one of the following):

Adopt a regulation

Amend a regulation (Citation _____)

Repeal a regulation (Citation _____)

Please attach suggested regulatory language if request is to adopt or amend a regulation.

B. Why is the petitioner requesting this action from the Board? (Describe problems encountered under current regulations and the changes being recommended to address the problems. State factual and legal contentions and include supporting documentation that establishes a clear justification for the requested action.)

We petition that the Designated Use for the headwaters section of Beaverdam Run in Cambria County be upgraded from CWF:MF to Extra Value (EV). The stream is a significant tributary to Glendale Lake at Prince Gallitzin Park and the excellent quality should be preserved to protect fishing and water activities. The chemistry and biota of the stream currently justify this upgrade. The current good fishing in the stream and its tributaries should be preserved. Some of the watershed is within the boundaries of Prince Gallitzin Park and some is within State Gameland 108.

C. Describe the types of persons, businesses and organizations likely to be impacted by this proposal.

No significant impacts are evident. About 40% of the watershed is forested; most of the rest is agricultural, mainly growing hay, and including a few small dairy operations. About 12 homes lie within the watershed,

D. Does the action requested in the petition concern a matter currently in litigation? If yes, please explain.

We are not aware of any litigation in the watershed.

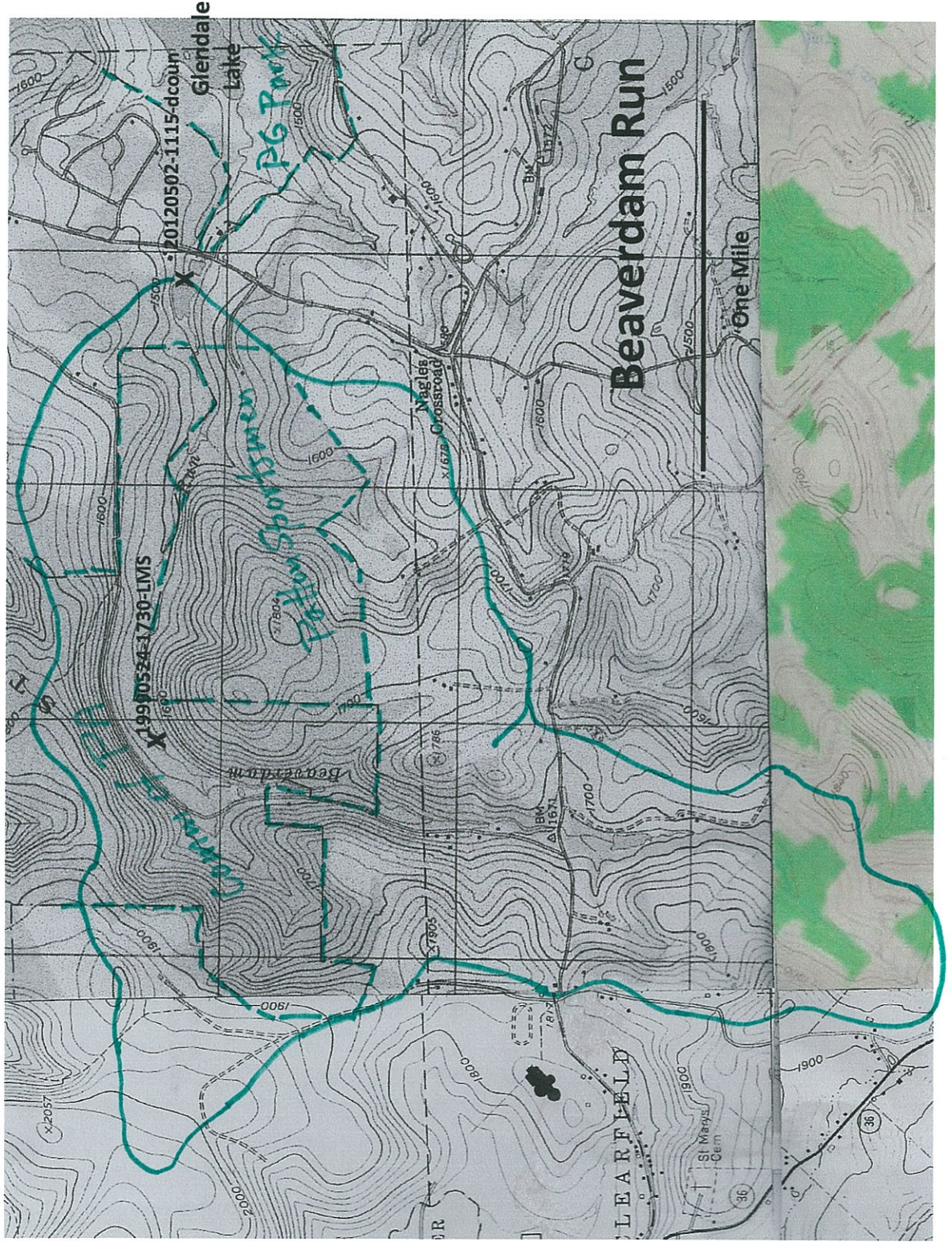
E. For stream redesignation petitions, the following information must be included for the petition to be considered complete. Attach supporting material as necessary.

1. A clear delineation of the watershed or stream segment to be redesignated, both in narrative form and on a map.
2. The current designated use(s) of the watershed or segment.
3. The requested designated use(s) of the watershed or segment.
4. Available technical data on instream conditions for the following: water chemistry, the aquatic community (benthic macroinvertebrates and/or fishes), or instream habitat. If such data are not included, provide a description of the data sources investigated.
5. A description of existing and proposed point and nonpoint source discharges and their impact on water quality and/or the aquatic community. The names, locations, and permit numbers of point source discharges and a description of the types and locations of nonpoint source discharges should be listed.
6. Information regarding any of the qualifiers for designation as high quality waters (HQ) or exceptional value waters (EV) in §93.4b (relating to qualifying as High Quality or Exceptional Value waters) used as a basis for the requested designation.
7. A general description of land use and development patterns in the watershed. Examples include the amount or percentage of public lands (including ownership) and the amount or percentage of various land use types (such as residential, commercial, industrial, agricultural and the like).
8. The names of all municipalities through which the watershed or segment flows, including an official contact name and address.
9. Locational information relevant to items 4-8 (except for contact names and addresses) displayed on a map or maps, if possible.

**All petitions should be submitted to the
Secretary of the Department of Environmental Protection
P.O. Box 2063
Harrisburg, PA 17105-2063**

PETITION FOR UPGRADE OF BEAVERDAM RUN, CAMBRIA COUNTY

1. The proposed upgrade includes the watershed of Beaverdam Run upstream of Beaver Valley Road. The watershed is a significant tributary of Glendale Lake in Chest Township. The stream extends west from the lake for about 1.5 miles, then southward for about 2 miles across Glendale Lake Road (SR1021). See the accompanying map.
2. The current designated use is CWF-MF.
3. The requested designated use is CWF-MF-EV
4. See the 2 attached reports of chemical and biota testing at 2 sites along the stream. The tests show that the stream meets Extra Value standards.
5. No permitted discharges are known within the watershed.
6. The IBI using the SSWAP method is 92 for the sample site near the mouth and 96.5 a short distance upstream.
7. The watershed has an area of about 3.4 square miles. About 40% of the watershed is forested and 60 % is cleared land. The farmland is mainly for dairying. About 0.5 sq. mi. of the watershed is in State Gameland 108. An additional forested area is held by the Patton Sportsmen Club. The Commonwealth of PA holds mineral rights in most of its land, and Cambria Heights School owns mineral rights at the west side of the watershed. There is no other significant industry or commercial activity within the watershed.
8. About 2/3 of the watershed is in Chest Township, and the other 1/3 is in Allegheny Township, part of Cambria County. The contact phone for Chest Township is 814-674-8166 or 814-674-5259. Mr. Mark Lachene is Chair of the Chest Township Supervisors. The phone for Clearfield Township is 814-674-8166.
9. See map.



Glendale Lake

20120502-1115-dcoum

PG Park

LMS

Patterson Spookmen

Beaverdam Run

One Mile

LEARYFIELD

St Marys Cem.

X 19970534-1730-LMS

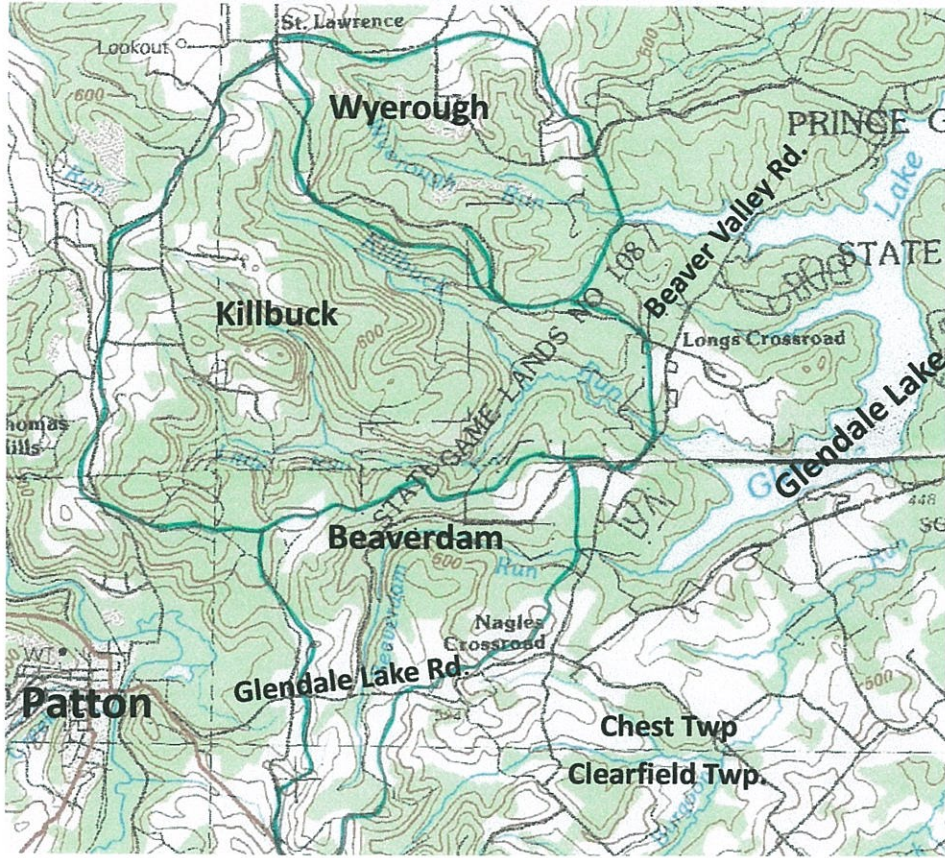
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Glendale Lake Area

Cambria County

Showing Wyerough, Killbuck and Beaverdam

Runs

2 miles

Benthic macroinvertebrate sample summary

Station ID 20120502-1115-dcounahan Beaverdam Run
 Stream Name Beaverdam Run (01209357) Stream Code 26371 Strahler 3
 Survey ID 63625 Sample Method 6-Dframe Composite, 200 subsample
 Collection Date 20120502 Collection Time 1115 Latitude 40.6472074 Longitude -78.5872626
 HUC8 02050201 Upper West Branch Susquehanna

Station Location Comments

Beaverdam Run - CWF - HUC 02050201 - SWP 08C - 20120502-1115-DFC.
 West Br Susquehanna Segment 01 Site 112, Coalport Quad, Cambria County.
 Driving Directions: From nagles Crossroads head north on Beaver Valley Road about 1,500 meters. Pull off on right. walk across Beaver Valley road. Sampled upstream of culvert.

Biology / Habitat Comments

Wild trout collected in net
 All E,P,T in net
 Lots of sand and cobble
 many riffles

Land Use Comments

Station Impairment Status Comments

Station attained, IBI Score = 92.6. Designated use of CWF should be re-evaluated.

Taxa List	# grids from first pan	6	# grids from second pan	0	Subsample Size	239
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Taxa Name	Individuals	PTV	FFG	BCG Attribute		any EV indicator taxa names are highlighted
				(coldwater)	(warmwater)	
Baetis	2	6	CG	4	5	
Dipheter	1	6	CG	2	2	
Epeorus	6	0	SC	2	2	
Maccaffertium	3	3	SC	3	3	
Drunella	3	1	SC	2	2	
Ephemerella	93	1	CG	3	2	
Ephemera	1	2	CG	3	2	
Pteronarcys	1	0	SH	1	2	
Tallaperla	1	0	SH	1	1	
Amphinemura	3	3	SH	3	3	
Leuctra	8	0	SH	2	2	
Acroneuria	3	0	PR	3	3	
Remenus	2	2	PR	1	1	
Isoperla	1	2	PR	2	2	
Haploperla	2	0	PR	3	3	
Nigronia	1	2	PR	3	3	
Wormaldia	6	0	FC	1	1	
Polycentropus	4	6	FC	4	4	
Diplectrona	34	0	FC	2	2	
Ceratopsyche	2	5	FC	4	4	
Cheumatopsyche	1	6	FC	5	5	
Rhyacophila	2	1	PR	2	2	
Pycnopsyche	1	4	SH	3	3	
Neophylax	1	3	SC	3	3	
Ectopria	2	5	SC	3	3	
Optioservus	13	4	SC	4	4	
Oulimnius	11	5	SC	3	2	
Ceratopogonidae	1	6	PR	4	4	
Chelifera	2	6	PR	4	4	
Tipula	1	4	SH	5	5	
Antocha	2	3	CG	4	4	
Chironomidae	24	6	CG	5	5	
Oligochaeta	1	10	CG	5	5	

Benthic macroinvertebrate sample summary

Station ID 20120502-1115-dcounahan Beaverdam Run
Stream Name Beaverdam Run (01209357) **Stream Code** 26371 **Strahler** 3
Survey ID 63625 **Sample Method** 6-Dframe Composite, 200 subsample
Collection Date 20120502 **Collection Time** 1115 **Latitude** 40.6472074 **Longitude** -78.5872626
HUC8 02050201 Upper West Branch Susquehanna

Metrics and IBI scores

Metric Names	Raw Metric Values	Standardized Metric Values						
		Freestone Riffle-Run			2D100	Multihabitat Pool-Glide	Limestone	
		2009 small	2011 large	2007			2006	2009
Total Richness	33	100.0	106.5	94.3		106.5	178.3	183.3
Ephemeroptera Richness	7					116.7		
Trichoptera Richness	8					72.7		
EPT Richness	23			100.0	150.3	135.3	287.5	287.5
Trichoptera Richness (PTV 0-4)	5				138.9			
EPT Richness (PTV 0-4)	18	94.7	112.5					
Beck's Index (version 3)	34	89.5	154.5	87.2				
Beck's Index (version 4)	33				165.8	150.0		275.0
FC + PR + SH Richness	19				163.8			
Hilsenhoff Biotic Index	2.05	98.0	114.4	96.7	117.9		126.4	129.1
% Inolerant Individuals (PTV 0-3)	72.4	85.7	108.5				275.2	
% Intolerant Individuals (PTV 0-5)	84.9			91.8				
% Tolerant Individuals (PTV 7-10)	0.4						100.6	101.1
Shannon Diversity	2.36	82.4	82.4	81.4		97.0	122.8	110.7
IBI score		91.7	97.1	91.9	100.0	95.0	100.0	100.0
% Ephemeroptera 45.6	% Ephemeroptera (PTV 0-4) 44.4	% Dominant Taxon 38.9	BCG Richness Ratio 2.00					
% Plecoptera 8.8	Ephemeroptera Richness(PTV 0-4) 5	% Chironomidae 10.0	BCG Individuals Ratio 3.51					
% Trichoptera 21.3	Plecoptera Richness 8	% Simuliidae 0.0	EV Indicator Taxa Richness 7					
Not impaired Y	Biology impaired N	Habitat impaired N	Insufficient data N					
Rock pick influenced assessment N	Impact is localized N	Re-evaluate designated use N						

Physical Habitat Assessment				Pool-Glide Assessment? N	
Instream Cover 19	Substrate / Cover 0	Frequency of Riffles 20	Contition of Banks 17		
Epifaunal Substrate 18	Velocity/Depth Regimes 18	Channel Sinuosity 20	Bank Vegetation 16		
Embeddedness 16	Pool Variability 0	Channel Flow Status 19	Disruptive Pressure 14		
Pool Substrate 0	Sediment Deposition 16	Channel Alteration 18	Riparian Zone 13		
Instream Score 69	Riparian Score 46	Total Score 204			

Field Measurements		Lab samples	
Temperature (°C) 11.9	Dissolved Oxygen (mg/L) 9.33	Flow (CFS) 0	
pH 7.38	Total Alkalinity (mg/L as CaCO3) 40	Conductivity (uS/cm) 229	

Use Assessment Status for Stream Reach	Designated Use	CWF	Existing Use
Aquatic Life	Attaining (20130806-0841-gawalters)		
	Attained based on station 20120502-1115-dcounahan. IBI score = 92.6 (gawalters)		

Fish Consumption
Potable Water Supply
Recreation

TMDL Information (if any)				
Clearfield Creek (Finalized): AMD - Metals				
Begin Date	Meeting Date	End Date	Draft Date	Final Date 4/7/2007

Benthic macroinvertebrate sample summary

Station ID 19990524-1730-LMS

Stream Name Beaverdam Run (01209357)

Stream Code 26371

Strahler 3

Survey ID 44087

Sample Method Kick Screen: Statewide Surface Water Assessment Program

Collection Date

Collection Time

Latitude 40.6490635

Longitude -78.6108232

HUC8 02050201

Upper West Branch Susquehanna

Station Location Comments

Site is located on Beaverdam Run off of T524 about 1.5 miles from intersection with SR 1021 at large bend in road (Coalport quad).

Biology / Physical Habitat Comments

Epeorus present. Beaverdams upstream.

Land Use Comments

Area at site is mostly forested, in state game lands 108. Some old field and residential upstream. Beaver dams upstream.

Impairment Status Comments

Sediment, probably from beaver dams upstream.

Taxa List

Taxa Name	Abundance Category	Abundance Range	PTV	FFG
Baetidae	Present	3-9	6	CG
Heptageniidae	Common	10-24	3	SC
EphemereIIDae	Abundant	25-100	2	CG
Leptophlebiidae	Present	3-9	4	CG
Ephemeridae	Present	3-9	4	CG
Gomphidae	Rare	<3	4	PR
Nemouridae	Present	3-9	2	SH
Leuctridae	Present	3-9	0	SH
Perlidae	Present	3-9	3	PR
Perlodidae	Rare	<3	2	PR
Chloroperlidae	Rare	<3	0	PR
Sialidae	Rare	<3	6	PR
Nigronia	Present	3-9	2	PR
Philopotamidae	Common	10-24	3	FC
Polycentropodidae	Rare	<3	6	FC
Hydropsychidae	Abundant	25-100	5	FC
Rhyacophilidae	Present	3-9	1	SC
Glossosomatidae	Rare	<3	0	SC
Limnephilidae	Rare	<3	4	SH
Elmidae	Present	3-9	5	CG
Chironomidae(other)	Common	10-24	6	
Tipulidae	Rare	<3	4	SH
Other Worms	Rare	<3	8	

SSWAP metrics and IBI

	Raw Metric Value	Standardized Metric Value
Total Richness	23	104.5
EPT Richness (PTV 0 - 4)	13	118.2
Beck's Index (version 3)	15	107.1
Hilsenhoff Biotic Index	3.53	87.3
Shannon Diversity	2.51	95.3
SSWAP IBI		96.5

Benthic macroinvertebrate sample summary

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Stream Name Beaverdam Run (01209357) **Stream Code** 26371 **Strahler** 3
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Collection Date **Collection Time** **Latitude** 40.6490635 **Longitude** -78.6108232
HUC8 02050201 **Upper West Branch Susquehanna**

1. Abundance obviously low		N
2. Seven or fewer families		N
3. Three or fewer mayfly individuals (exclude Baetidae, Caenidae, Siphonuridae)		N
4. Stoneflies collectively present	Y	
5. Mayflies and caddisflies collectively abundant (exclude Baetidae, Caenidae, Siphonuridae, Hydropsychidae, Polycentropidae)	N	
6. Jul - Sep: at least four EPT families with tolerance value of 4 or less Nov - May: at least six EPT families with tolerance value of 4 or less	Y	
7. Four or more families with tolerance value of 3 or less	Y	
8. Six or more families with tolerance value of 4 or less	Y	
9. Dominant family with tolerance value of 4 or less	Y	
10. Dominant family with tolerance value greater than 5 (criteria 7 and 8 negate this criterion)		N
11. Seven or more families with tolerance value of 6 or more (criteria 7 and 8 negate this criterion)		N
12. Sample dominated by families with a mean tolerance value of 5 or less	Y	
13. Sample dominated by families with a mean tolerance value of 6 or more		N
14. Embeddedness (or substrate character for pool/glide) + sediment deposition = 24 or less (20 or less for warmwater, low gradient streams)		N
15. Condition of banks + bank vegetation = 24 or less (20 or less for warmwater, low gradient streams)		N
16. Total habitat score 140 or less for forested, coldwater, high gradient streams (120 or less for warmwater, low gradient streams)		N
17a. Special conditions (attaining)	N	
17b. Special conditions (impaired)		N
17c. Special conditons description		

Not impaired Y **Biology impaired** N **Habitat impaired** N **Insufficient data** N
Rock pick influenced assessment N **Impact is localized** N **Re-evaluate designated use** N

Physical Habitat Assessment				Pool/Glide Assessment	
Instream Cover	16	Substrate / Cover	0	Frequency of Riffles	14
Epifaunal Substrate	14	Velocity/Depth Regimes	15	Channel Sinuosity	14
Embeddedness	15	Pool Variability	0	Channel Flow Status	16
Pool Substrate	0	Sediment Deposition	11	Channel Alteration	16
Instream Score	56	Riparian Score	49	Total Score	183

Field Measurements		Lab samples	
Temperature (°C)	13	Dissolved Oxygen (mg/L)	10.1
pH	5.9	Alkalinity (mg/L as CaCO3)	
		Flow (CFS)	
		Conductivity	131

Use Assessment Status for Stream Reach **Designated Use** CWF **Existing Use**
Aquatic Life Attaining (20130806-0841-gawalters)
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