

Three Lakes Clarity Monitoring Program

September 2014 Report

All data in this report is PROVISIONAL and SUBJECT TO REVISION

Data used is provided by GCWIN, USGS, BOR and NCWCD.

Secchi depths reported are measured using a view scope.

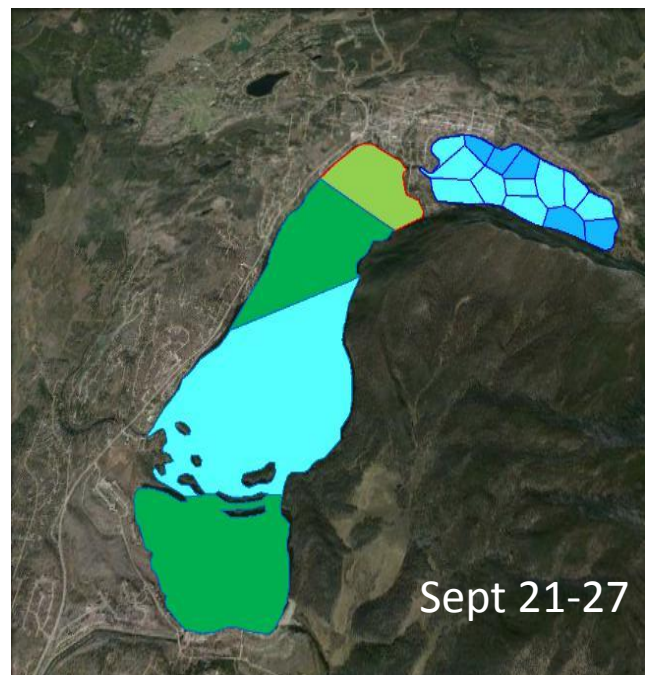
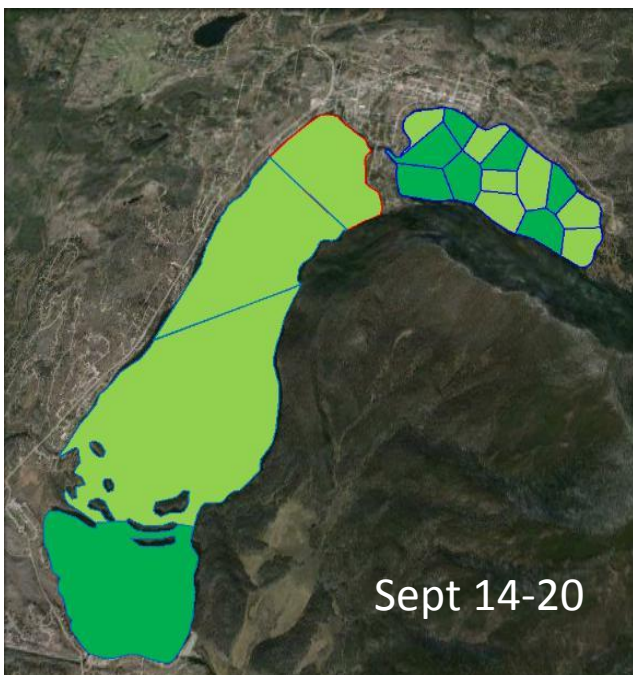
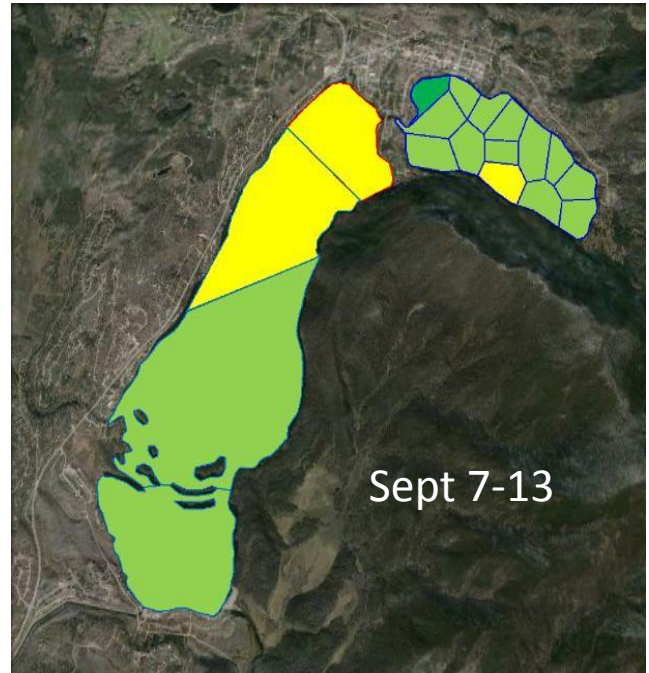
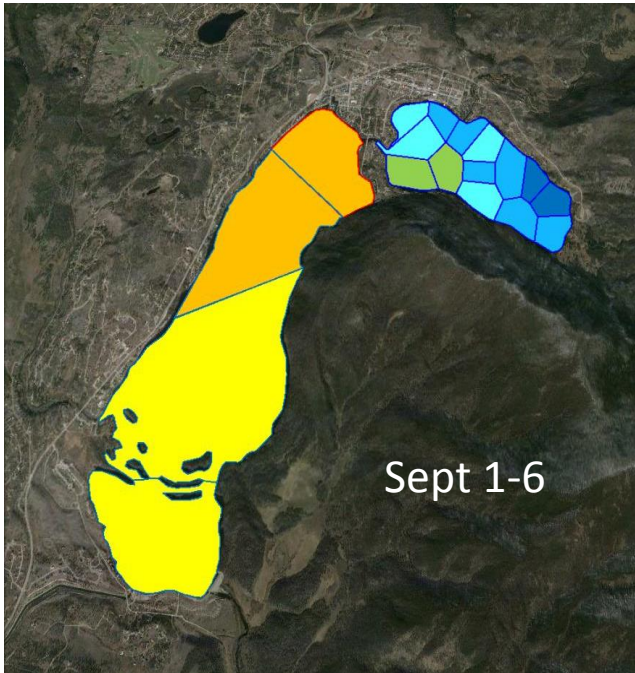
September synopsis

Grand Lake – Clarity averaged 3.49m. Average surface temperature was 57°F. Inflow from the East Inlet fluctuated throughout the month starting at 32cfs and ended at 51cfs. Inflow from the North Inlet fluctuated throughout the month starting at 45cfs reaching 148cfs mid month and ended at 94cfs. Outflow at Adams Tunnel started at 29cfs and reached a high of 509cfs and ended the month at 47cfs.

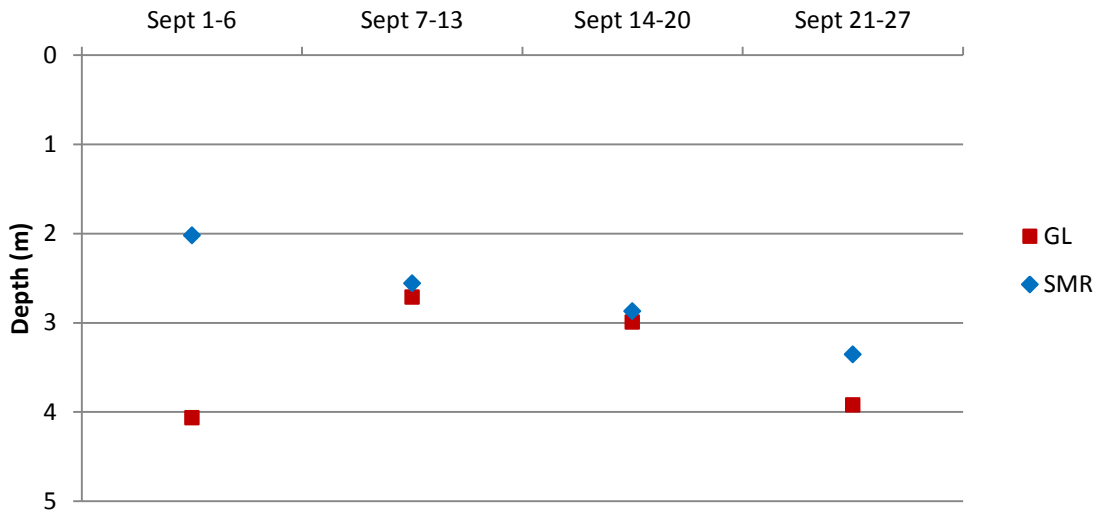
Shadow Mountain Reservoir – Clarity averaged 2.57m. Average surface temperature was 56°F. Inflow from the North Fork increased from 67cfs to 121cfs by the end of the month. Inflow at the Farr Pump fluctuated from 17cfs at the beginning of the month increased to 515cfs and ended the month at 0cfs. Outflow at the Granby Dam increased from 90cfs to 387cfs.

Connecting Channel Flow – Velocity fluctuated, starting at -34cfs reaching a high of 398cfs and ending at -118cfs flowing to Shadow Mountain Reservoir.

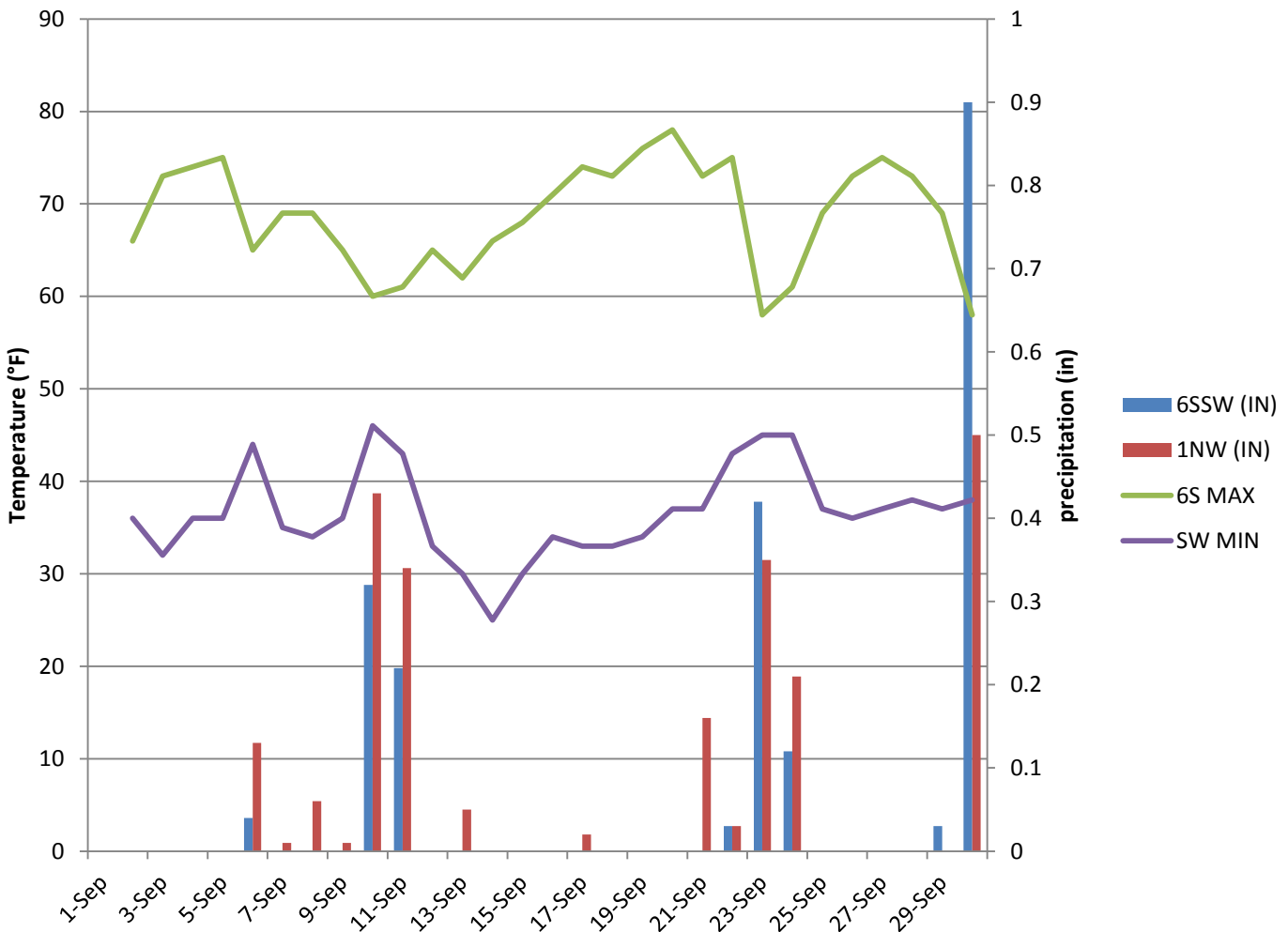
Secchi Depth (m)	
<1.0	4.0 - 4.5
1.0 - 1.5	4.5 - 5.0
1.5 - 2.0	5.0 - 5.5
2.0 - 2.5	5.5 - 6.0
2.5 - 3.0	6.0 - 6.5
3.0 - 3.5	6.5 - 7.0
3.5 - 4.0	> 7.0



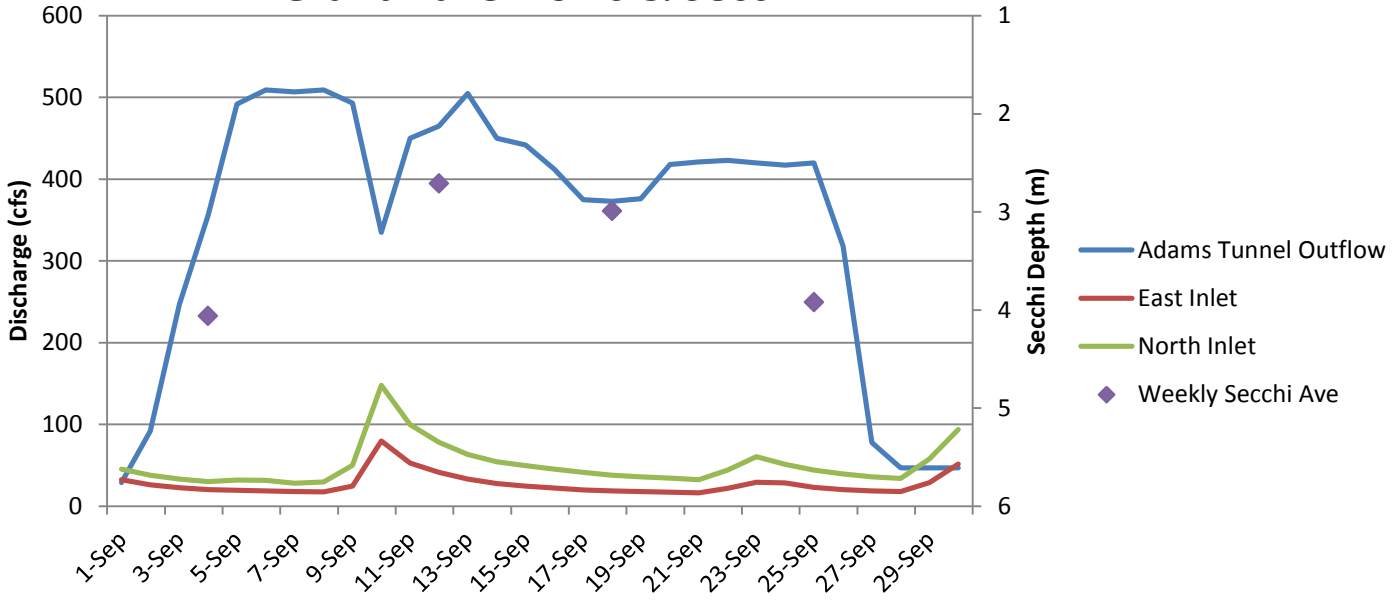
Average Weekly Secchi Depth Chart



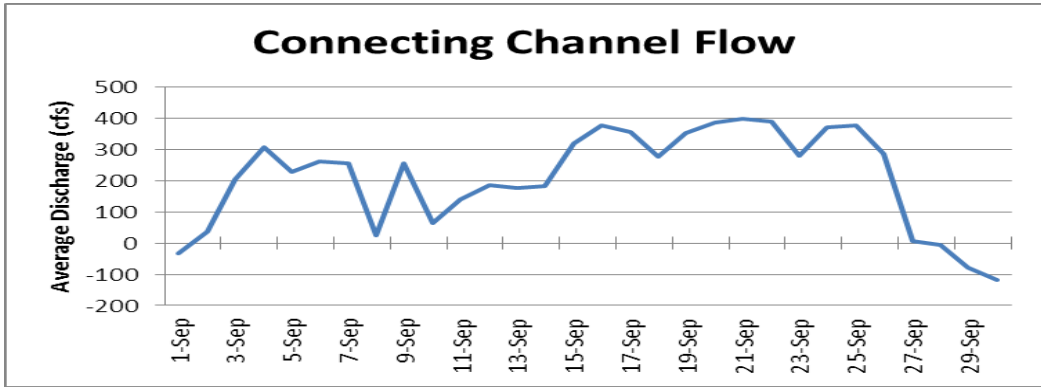
Weather Around Grand Lake



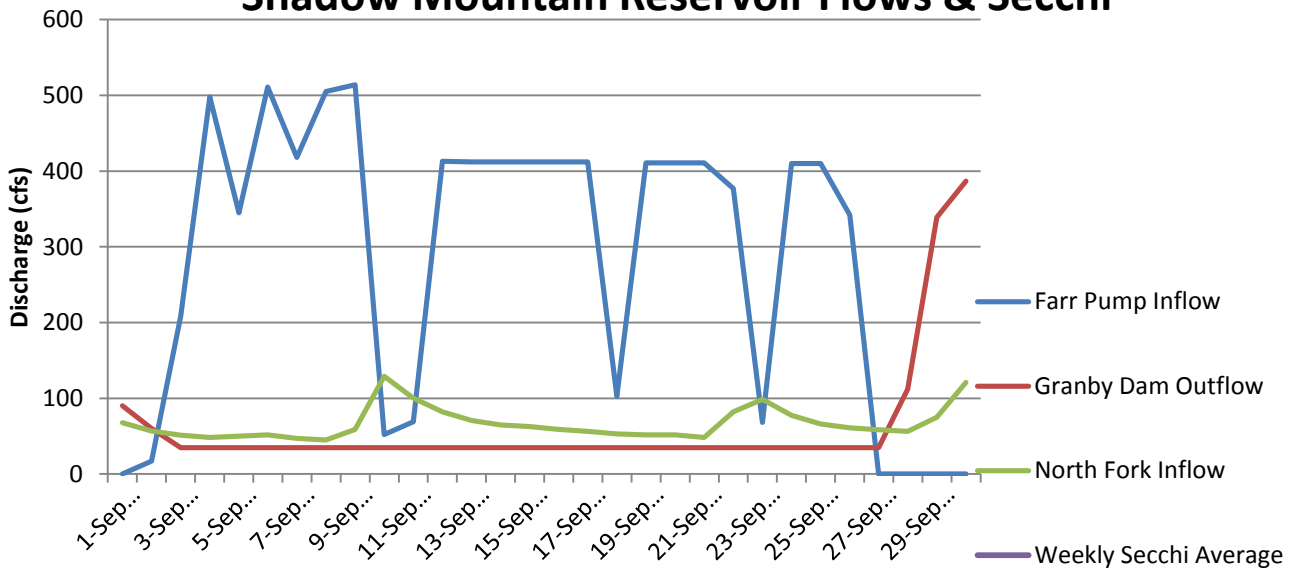
Grand Lake Flows & Secchi



Connecting Channel Flow



Shadow Mountain Reservoir Flows & Secchi



If you are interested in viewing current conditions, you can check the following links:

- For real-time data on SMR– GL connecting channel: :
http://waterdata.usgs.gov/nwis/dv?referred_module=sw&site_no=09014050
- For information on stream inflows:
<http://www.northernwater.org/WaterProjects/WestSlopeWaterData.aspx?WDType=R>
- For five-day archives of Adams Tunnel flows:
http://www.usbr.gov/gp-bin/hydromet_archives.pl?adatunco
- For Grand County’s water resource page: <http://co.grand.co.us/408/Water-Resource-Management>
- For weather, gages, snow, avalanche reports , and water news: www.crwcd.org
- For water quality data around Grand County <http://www.gcwin.org>