

2. UNITS: U.S SURVEY FEET

3. VERTICAL DATUM: NORTH AMERICAN VETICAL DATUM 1988 (NAVD88). SOUNDINGS ARE IN FEET AND INDICATE ELEVATIONS IN REFERENCE TO NAVD88. NAVD88 VERTICAL DATUM WAS ESTABLISHED FROM WSDOT SURVEY MONUMENTS PRN33-1, PRN32-24, GP33291-17 AND GP33291-16.

4. CONTOUR INTERVAL: 2 FOOT.

5. ALL HORIZONTAL POSITIONING AND VESSEL ATTITUDE WAS PROVIDED IN REAL TIME USING A CODA OCTOPUS F-185+ GPS AIDED INERTIAL SENSOR.

6. SOUNDINGS WERE COLLECTED USING A KONGSBERG EM3002 MULTIBEAM SONAR WITH A 300 kHZ, 130-DEGREE SWATH AND A KNUDSEN 320M SINGLEBEAM SONAR. DATA PROCESSING WAS COMPLETED USING HYPACK HYWEEP SOFTWARE.

7. THIS BATHYMETRIC SURVEY IS REPRESENTATIVE OF THE GENERAL CONDITION OF THE RIVERBED AT THE TIME OF THE SURVEY. THE CONDITION OF THE BOTTOM MAY CHANGE AT ANY TIME AFTER THE DATE OF THIS SURVEY.

8. ALL BATHYMETRIC DATA WAS COLLECTED IN ACCORDANCE WITH THE U.S ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM-112-02-1003 (JANUARY 2002). SURVEY CLASSIFICATION: NAVIGATION AND DREDGING SUPPORT SURVEYS, BOTTOM CLASSIFICATION OF SOFT.

9. AVERAGE WATER SURFACE ELEVATION AT TIME OF SURVEY: 1538.0' (NAVD88). PLEASE NOTE THIS CORRELATES WITH AN ELEVATION OF 1535.85' IN THE WASHINGTON WATER POWER (WWP) VERTICAL DATUM. IN ADDITION, 1533.15' NAVD88 (DASHED MAGENTA LINE) CORRELATES TO 1531' IN THE WWP VERICAL DATUM.

10. ALL UPLAND LIDAR DATA DISPLAYED WAS PROVIDED BY AVISTA CORPORATION. LIDAR FLOWN SEPTEMBER 11-16, 2009, DURING WHICH THE AVERAGE WATER SURFACE ELEVATION WAS 1538 FT. (NAVD88)

THIS HYDROGRAPHIC SURVEY WAS COMPLETED BY AN AMERICAN CONGRESS ON SURVEYING AND MAPPING CERTIFIED HYDROGRAPHER

ه در 6-23-2011 JAMES W. GLAESER DATE AMERICAN CONGRESS ON SURVEYING AND MAPPING CERTIFIED HYDROGRAPHER #222

Avista Corporation Lake Spokane Bathymetric Survey

Spokane River

Sheet Index Data Collected: June - July, 2009

Drawing Date: May 2011

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VERTICAL DATUM = NAVD 88 (SEE NOTES 3 AND 9)

NORTHWEST HYDRO INC. 31 COUGAR CREEK RD. SKAMANIA, WA 98648 PH (509) 427-5081 EMAIL: NWHYDRO@SAW.NET

AVISTA CORPORATION SPOKANE, WASHINGTON		
AS-NOTED	05-30-11	APPROVED
SCALE	DATE	- Pruce Howard
DESIGN JWG CH	HECKED 57	/ 6-28-2011
	oted_ <u>MS</u>	DATE
CHECKED JWG NO	oted	MFG. DWG. NO.:
DWG. NO.: 203E-40-405-04-00		