# comprehensive Data delivery README FILE

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| **Study Section** | Study 6.6: Fluvial Geomorphology (FGM) |
| **Study Component** | (1) Bed Evolution Model Development, Coordination, and Calibration |
| **Prepared By** | Tetra Tech, Inc. |
| **Data Collection and Processing By** | R2 Resource Consultants, Inc./Tetra Tech, Inc. |
| **Field Date Range** | July 9, 2013 through September 17, 2014 |

**Introduction:** The overall goal of the Fluvial Geomorphology Modeling below Watana Dam Study is to model the effects of the proposed Susitna-Watana Hydroelectric Project (the Project) on the fluvial geomorphology of the Susitna River and to assist in predicting the trend and magnitude of geomorphic response. More specifically, the purpose of the modeling study, along with the Geomorphology Study (Study 6.5), is to assess the potential impact of the Project on the behavior of the river downstream of the proposed dam, with particular focus on potential changes in instream and riparian habitat.

The goal of the study component “Bed Evolution Model Development, Coordination, and Calibration” is to develop calibrated models to predict the magnitude and trend of geomorphic response to the Project and apply the developed models to estimate the potential for channel change for with-Project operations compared to existing conditions.

Discharge data was collected as part of “Field Data from Other Studies” under the Field Data Collection Efforts subtask of Bed Evolution model Development, Coordination, and Calibration.

**Data Summary:** Discharge measurements were collected in conjunction with the Fish and Aquatics Instream Flow Study (Study 8.5) in September 2014. This consisted of data collected in 7 Focus Areas below Devils Canyon; FA-104 (Whiskers Slough), FA-113 (Oxbow I), FA-115 (Slough 6A), FA-128 (Slough 8A), FA-138 (Gold Creek), FA-141 (Indian River), and FA-144 (Slough 21). A compilation of discharge data and discharge profile data is compiled in two excel spreadsheets.

**Data Organization:** None.

**Software or Hardware Considerations:** None.

**Online Data Link:** Folder “Discharge” at <http://gis.suhydro.org/suwareports/SuWa/06-GEO/6.06-GEOMOD/>

**Online Report Link:** “06.06 Fluvial Geomorphology Modeling below Watana Dam – 2014-2015 Study Implementation Report (Part 1 of 4)” under November 2015; Study Completion and 2014/2015 Implementation Reports at <http://www.susitna-watanahydro.org/type/documents/> . *There are multiple links associated with this report filing, however the link noted as “Part 1 of 4” is the most relevant to the discharge data.*

**[[1]](#endnote-1)**

1. **Data Distributor Contact Information:**

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   Voice: 907-771-3000, Email: [SUWAhelp@aidea.org](mailto:SUWAhelp@aidea.org)

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