# 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** | Tetra Tech, Inc.  |
| **Field Date Range** | May 14, 2013; June 13, 2013; September 18-19, 2013 |

**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.

Aerial reconnaissance videos, collected during helicopter flights in the Lower, Middle, and Upper Susitna River Segments, have been collected as part of the overall field data collection effort (ISR Study 6.6 Section 4.1.2.9).

**Data Summary:** Aerial reconnaissance videos of the Lower, Middle, and Upper Susitna River Segments were collected on May 14, 2013 and June 13, 2013 in order to inform field data sample location selection and field data sampling methodologies, including access to sites throughout the river corridor. Videos collected on May 14, 2013 have subtitles added that indicate the approximate location of the helicopter during the reconnaissance flight. Maps of the May 14 helicopter route and video file names are also included. Videos collected on June 13, 2013 show the approximate location of the helicopter by filming a fieldbook with the approximate Project River Mile for a few seconds before panning back to the river corridor.

Aerial reconnaissance videos of the Lower, Middle, and Upper Susitna River Segments were collected on September 18 and 19, 2013 in order to inform the geomorphic characterization and assessment of the entire Susitna River as well as inform field data collection and access in the Upper Susitna River for the following field season (2014). Videos collected on September 18, 2013 cover the Lower Susitna River Segment from Cook Inlet to the Three Rivers Confluence. Videos collected on September 19, 2013 cover the Middle and Upper Susitna River Segments from just upstream of the Three Rivers Confluence, up the Susitna River, to the headwaters at the glaciers.

**Data Organization:** Videos are subdivided by the date they were collected. Folders are named by date [YYYYMMDD]:

* 20130514 *(videos include subtitles of approximate helicopter location)*
	+ Lower\_River
	+ Middle\_and\_UpperRiver
* 20130613
* 20130918
* 20130919

**Software or Hardware Considerations:** Software compatible to play .MP4 and AVCHD video files.

**Online Data Link:** <http://gis.suhydro.org/suwareports/SuWa/06-GEO/6.06-GEOMOD/Videos>

**Online Report Link:** This video data is not specifically discussed in a report. Rather, it was used informed the field data collection effort. The field data collection effort is discussed in the following two reports:

**“**6.6 Fluvial Geomorphology Modeling below Watana Dam Study” under “June 3, 2014; Initial Study Report – Part A, B, and C” at <http://www.susitna-watanahydro.org/type/documents/> . *There are a total of 3 links associated with this report. There is one link for the following: (1) Main body text and tables [Part A 1 of 3], (2) Figures [Part A 2 of 3], and (3) Appendices and Attachment [Part A 3 of 3].*

“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” includes the main body text, tables, and figures.*

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

1. **Data Distributor Contact Information:**

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