



SUSITNA-WATANA HYDRO

Meeting Notes Fish Passage Technical Team Meeting #4, Site Visit September 18-19, 2013

LOCATION: Northern Susitna Institute
Talkeetna, AK

TIME: 9/18 Site Tour: 8:30 am – 5:30 pm (AKST)
9/19 Meeting: 8:00 am – 12:00 pm (AKST)

SUBJECT: Fish Passage Site Visit (9/18) and debrief meeting (9/19)

GOAL: Conduct site tour, and provide opportunity for group discussion regarding site visit and review future steps

PARTICIPANTS: *Fish Passage Technical Team Attendees:* Betsy McGregor AEA, Dana Postlewait R2, MaryLou Keefe R2, Chick Sweeney Alden Labs, Ed Meyer NMFS, Stormy Haught ADF&G, Ed Zapel NHC, Sue Walker NMFS, Dan Turner R2, Graham Hill NHC, Jeff Davis ARRI, Matt Cutlip FERC, Eric Rothwell NMFS, Al Giorgi, Bioanalysts, Inc., Denis Dorratcague MWH, Phil Brna USFWS, Woohee Choi FERC, Doug Ott AEA (site tour only),

Other Attendees: Kathryn Peltier McMillen, Matt Love VNF, Whitney Wolf Talkeetna Community Council

A site tour via four helicopters was conducted on 9/18/2013. All Fish Passage Technical Team (FP-TT) meeting participants noted above attended the tour except: Phil Brna and Jeff Davis. The group first convened at 8:30 am, where it was decided to delay until 10:00 am due to poor weather. Following a brief meeting to plan the day conducted at the Northern Susitna Institute building, the tour left Talkeetna at 10:00 am and included a flight upriver to the Oshetna River. The group landed and observed the mouth of the Oshetna River, observed the screw trap and sampling operations in action, and discussed tributary collector type options. A portion of the group flew up the Oshetna River to the Black River, where juvenile Chinook salmon were found in 2013. The entire group then traveled down the Susitna River and landed near the mouth of Kosina Creek and observed that site, as well as the screw trap location. The last stop was at the gravel bar approximately ½ mile upstream of the dam site. At least two of the helicopters flew up the Oshetna River and Kosina Creek to the projected full pool coordinates and beyond, to observe conditions for tributary collectors. The group flew back downriver through Devils Canyon, and returned to Talkeetna at approximately 4:30 pm. Weather was overcast with some rain/snow in the morning, and cleared to overcast with broken clouds in the afternoon, so visibility was generally very good.

A brief meeting was held on 9/18/2013 from about 4:45 to 5:30 pm, as Doug Ott would not be able to make the 9/19 meeting. The NMFS helicopter had to refuel, and did not make it back to Talkeetna in time for NMFS representatives to attend this short debrief. Dana Postlewait presented a quick overview of the study plan and schedule to help bring Doug up to speed, as he is new to the Project and this was his first FP-TT meeting. Doug will be AEA's engineering representative to this group. Dana also handed out Critical Energy Infrastructure Information (CEII)

protected drawings of the dam that were provided by MWH to use as a reference for the site tour. These consisted of the latest facility site plan and cross sections that were provided last spring, as the new sections related to this plan have not yet been developed. Dana also handed out a packet of Physical Project Information showing 2012 Chinook fish movement at the evening meeting. This packet was also handed out to the group members on Thursday morning that were not able to make the Wednesday evening meeting. MaryLou reviewed the packet at both the evening and morning meetings. After some interactive discussion by all on the overall study plan and status, the meeting adjourned at about 5:30 pm.

The meeting held on 9/19/2013 included all attendees noted above except for Doug Ott, who had to attend another Susitna-Watana meeting. The purpose of this meeting was to capture comments resulting from the site visit and to discuss steps leading up to the March 18-19, 2013 brainstorming meeting. These meeting notes are intended to give a brief overview of discussions, review the status of prior action items, and identify new action items. Active action items from this meeting as well as those not completed from previous meetings are provided in a table at the end of this document; a copy of the agenda and some items requiring team members' review are also attached. Completed action items and "parking lot items" are included in separate tables, also following these meeting notes. After introductions, Dana Postlewait began the meeting by presenting the agenda. Phil Brna of USFWS was contacted via telephone and after being allowed to listen in on speaker phone, decided it would be more productive to have Phil contact Dana after this meeting.

Previous Meeting Note Review

On July 23, 2013, the July 9, 2013 meeting notes were distributed for attendees' review. Dana Postlewait asked if any attendees had outstanding comments on these notes. Nobody responded and the notes were deemed final.

Action Item Review

Dana Postlewait reviewed the status of all action items included in the July 9th meeting notes. Action items were updated and are listed in the tables below.

Operation Scenarios

A brief discussion was held regarding the operation scenarios being applied to the Project. Sue Walker asked for details of FERC's request for AEA to consider a run of river (ROR) scenario. Matt Cutlip explained that the FERC requested ROR scenario is based on operations of the dam and reservoir being "what goes in, goes out". Matt Cutlip added that Project evaluations could include ROR operations at times of biological importance. Dennis Dorratcague said that a status update of engineering's ROR scenario can be provided at the 1/16/14 call.

Appendix B Summary Tables

Table 1 – This table summarizes the appendices provided for the site visit, and consolidates important design information for this FP-TT. Dana Postlewait said that these tables were handed out in an incomplete form to communicate their intent, and to familiarize the team with this format that will be used beginning at the March 2014 brainstorm meeting. As such, the table contains many place holders. He requested that the FP-TT provide feedback as to what they would like to see represented in this table, and also to provide input on any specific data that the various team members may have. Dana explained that this table provides information necessary when planning methods of fish transport and the scale of facilities. It was agreed by the group to split juvenile and adult into

separate rows. The information in this table depends on the most accurate data available and will be updated as necessary. If site-specific data is not available, then information will be inferred from species data elsewhere.

Table 2 – A brief overview of this table was provided by Dana Postlewait. Stormy Haught and Sue Walker agree that lamprey is not a species considered to be present in the upper Susitna River. MaryLouise Keefe was unsure if electrofishing efforts documented lamprey presence in the upper Susitna River. Dana requested similar review and input as noted in Table 1 above.

Brainstorming

Dana Postlewait initiated discussion regarding the upcoming March Brainstorming Meeting. Initially intended to be two days in MWH's Bellevue, WA offices, the FP-TT agreed that a third day may be necessary and that it is best to plan now for this third day. The dates were expanded to March 18-20, 2014, and the meeting was moved from the MWH Bellevue office to Van Ness Feldman's downtown Seattle offices. The FP-TT expressed the need for water quality turbidity modeling in the reservoir for the brainstorming session. Betsy McGregor will check with Water Quality's schedule.

Evaluation Matrix

Chick Sweeney presented an evaluation matrix used successfully by several members of this team at other projects, and explained the workbook and its autopopulate features and how the worksheets and charts work together. He will populate this workbook with strawmen for the FP-TT to evaluate and comment on. At the workshop, this matrix will be refined and weighting the criteria will be performed. It will be used in the workshops after the Brainstorming Workshop to help narrow down the list of fish passage alternatives.

Some items with unknowns can be carried forward in the matrix. As long as a record is kept as to what is dropped or treated separately, the weighting can be changed. An important point with this discussion was the emphasis that this evaluation matrix is to be used only as one decision-making tool to help compare and improve alternatives, along with many other tools. It is NOT intended to give this group "the answer" regarding which, if any, facilities to pursue.

The FP-TT members asked for an example of other projects that implemented a similar fish passage development and comparison approach as this. Many TWG members agreed to contact clients and determine if the information was available to share. A short list was compiled of likely candidates including:

- Cowlitz example, 2008 workshop – Tacoma Power (Dana)
- Fall Creek fish trap – USACE (Chick)
- Peace River (Site C) – BC Hydro (Ed, Chick)
- Freeman Dam, Panel output – United Water Conservation District ,CA (Dana, Dennis)
- Baker Trap, FSC's – PSE (Dennis, Chick, Dana)
- USACE Compendium (Chick)
- Action Item – all others (individuals look for other examples)

Another useful tool would be for the FP-TT members, who have not observed a fish passage facility to visit one in the lower 48. This trip would be arranged independently (i.e., not by AEA), but the FP-TT members who were involved in a particular facility may be able to help arrange a point of contact. Dana Postlewait will provide NMFS and other FP-TT members who have not visited an existing fish passage facility with some options. Visits may be scheduled before or after the March Brainstorming Meeting or Fish Passage meeting in late April.

Other Topics

GIS and the metadata is provided after AEA and AEA's consultants have QA/QC'd the data. Until then, PDFs may be available with the caveat that they are not final.

Higher resolution LiDAR is planned for collection in September, 2013. The data will be processed with modelers' needs as top priority. If the data is successfully collected, the data processing will be complete by the end of February 2014.

Due to the large amount of information being provided as materials for the March 18-20, 2014 Brainstorming meeting, a two hour check-in call was scheduled for 1/16/13 at 10:00 am AKST. This meeting will provide an overview of the material provided and offer an opportunity for FP-TT members to ask questions or provide comments.

Sue Walker asked for clarification as to why this Fish Passage meeting was not publicized on the project website. MaryLouise Keefe explained that these meetings are for the FP-TT to discuss detailed aspects of the study. General updates of these activities will be provided to the public at quarterly Fish and Aquatics TWG meetings.

Stormy Haught said that otolith analysis on ~6 specimens from a 2010 (?)ADF&G study concluded that humpback whitefish show no evidence of anadromy in the upper Susitna River. Stormy will distribute this paper once it is available.

The meeting adjourned for all attendees at about 11:45 am, except for the NMFS representatives who missed the CEII handouts at the end of the 9/18 meeting. Meeting attendees who had not yet signed the CEII forms departed, and Dennis Dorratcague presented the latest Project drawings. The meeting adjourned for all at noon.

<u>ID</u>	<u>Active Action Items</u>	<u>Date Due</u>	<u>Responsibility</u>	<u>Distribution</u>	<u>Notes</u>
04.09-06	Distribute report on glacial lakes study, if one was produced.	1/8/2014	D Schmidt; AEA	Email to study leads. Post after review. Potentially available on ARLIS (http://www.arlis.org/resources/susitna-watana/)	7.9.13 - Dana Schmidt will reach out to Siberia and Scandinavia. Will post with info distribution on 1/8/14.
04.09-07; 04.09-11	Rob Plotnikoff to request John Hamrick provide some background information on simulating reservoirs and fish movements based on past experience; Determine when reservoir ice study will have some results to report to the Fish Passage group, or at least some findings of preliminary observations, particularly effects of ice formation and breakup at tributary mouths in reservoir.	1/8/2014	Rob Plotnikoff	Update for next meeting	7.9.13 – MaryLou K and D Postlewait will follow up with Rob Plotnikoff. Will post updates with info distribution on 1/8/14.
04.09-13	Provide updated wind speed data in excel file format to assist in estimating wave heights/loads	1/8/2014	Dennis Dorratcague	Dennis will work with John Haapala	Will post updates with info distribution on 1/8/14.
04.10-08	Biological Performance Tool to be populated/created as straw man	1/8/2014	Tim Sullivan, Phil Hilgert	For review at brainstorming meeting.	Will be distributed as a working model. If completed early, early distribution will occur.
05.21-03	AEA to follow up with Rob Plotnikoff regarding the timing/availability of ice modeling results	1/8/2014	Betsy McGregor	Update for next meeting	Combined with 04.09-11
07.09-04	Contact CIRI regarding their concern (as expressed by Sue Walker) with AEA hosting meeting outside of Alaska	10/1/2013	Wayne Dyok	Update for next meeting	Wayne will follow up with CIRI

ID	Active Action Items	Date Due	Responsibility	Distribution	Notes
09.18-01	Compile updated mapping of tributaries with plan/profile information, low/high pool, site locations, updated data and locations of documented fish/spawning	1/8/2014	Dana Postlewait and Dennis Dorratcague	FTP site	Site will include map set, video, stream profile. In GIS format where possible.
09.18-02	Provide Dana Postlewait with mapping needs and details identified on the maps.	11/27/2013	FP-TT	Email	
09.18-03	Distribute an agenda for a check in call on 1/16/14 at 10am-12pm (AK time)	11/27/2013	Dana Postlewait		The call will discuss the materials provided on 1/8/14 Include a status update for the run of river scenario as an agenda item.
09.18-04	Coordinate with Wayne and MWH to determine reasonable operation scenarios.	3/4/2014	Betsy McGregor, Dennis Dorratcague		
09.18-05	Determine turnover time necessary for engineering to refining operation scenario	11/27/2013	Dennis Dorratcague		
9.18-06	Review of the updated (as of 9.18.13) Information Needs Table	11/27/2013	FP-TT	Email to Dana Postlewait, with cc to Betsy McGregor.	Updated table distributed with the trip information. This is intended to be a living document, but input now would be helpful to allow incorporation of comments for the 1/2/2014 package.
9.18-07	Clarify public status of fish passage meetings	10/1/2013	Wayne Dyok	OPMP meeting	Clarify to all that the fish passage meetings are for FP-TT members. Updates will be provided to the public at the quarterly TWG meetings.

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9.18-07	Provide feedback on Appx B, Table 1 and Table 2	11/27/2013	FP-TT	Email Dana Postlewait with comments/suggested revisions/new information	
9.18-08	Appx B, Table 1 - split juvenile and adult into separate rows - add caveat explaining that this table's purpose is to provide general information as an input to the document - add upstream juvenile/sub-adult migration	3/4/2014	Dana Postlewait		May update by 1/8/14 information package.
9.18-09	Provide a mock-up table with synthesis of fish run timing over hydro project with ice influence	10/4/2013	Chick Sweeney	To Dana via email for consideration with 1/8/2014 information package.	
9.19-10	Provide FP-TT with otolith analyses of humpback whitefish	Once available	Stormy Haught	email	
9.19-11	Provide a sample evaluation process (dummy Project)	1/8/2014	Dana Postlewait and Chick Sweeney	FTP site	
9.19-12	Distribute draft agenda for brainstorming meeting - Dates are 3/18/14 – 3/20/14 - At Van Ness Feldman's downtown Seattle office - First half of first day = review updated data - Bracketed third day	With 9/19/2013 meeting notes	Dana Postlewait	Email	Provide suggested times for each agenda item. Require FP-TT feedback to the agenda by 11/27/13 Confirm the VNF conference room is available

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9.19-13	Confirm that turbidity response modeling in the reservoir will be available for the March brainstorming meeting	1/8/2014	Betsy McGregor	Email	
9.19-14	Populate evaluation matrix with strawmen and distribute to FP-TT for feedback.	1/8/2014	Chick Sweeney, Dennis Dorratcague, Dana Postlewait		Caveat evaluation matrix with the assumptions that this tool will help to challenge alternatives to improve all options
9.19-15	Provide other studies using same framework as this study	1/8/2014 (send update if possible by 11/27/13)	Dana Postlewait	FTP site	<ul style="list-style-type: none"> • Cowlitz example, 2008 workshop – Tacoma Power (Dana) • Fall Creek fish trap – USACE (Chick) • Peace River (Site C) – BC Hydro (Ed, Chick) • Freeman Dam, Panel output – United Water Cons Dist ,CA (Dana, Dennis) • Baker Trap, FSC's – PSE (Dennis, Chick, Dana) • USACE Compendium (Chick) • Action Item – all make Others (individuals look)
9.19-16	Follow up with point of contact at various fish passage facilities. Determine when fish passage would likely be occurring, which species, and if a tour would be possible at times that correspond with fish passage meeting(s) in the area.	11/27/13	Dana Postlewait	Email	

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9.19-17	Provide photos of relevant fish passage facilities to post on wall during brainstorm meeting in March, 2014	1/8/2014	Dana Postlewait, Dennis Dorratcague	FTP Site	All FP-TT members are welcome to send sample photos to Dana and Dennis who will add to and compile photos for the brainstorm session.

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<u>ID</u>	<u>Parking Lot Item</u>	<u>Date Noted</u>	<u>Responsibility</u>	<u>Distribution</u>	<u>Notes</u>
02.22-01	Identify Strategy Statement (e.g., Senate Bill; PAD)	3/31/2013	AEA	Will be in FSP, ISR	
02.22-02	Clarify meaning of "retrofit" with space/time components	3/8/2013	R2	Will be in FSP and ISR	
02.22-06	Include discrepancies in data to information table	3/8/2013	R2	Will be in final product.	
04.10-04	Add a series or component to the Information Needs table that relate to management considerations of the target species (policy information on species management or how to handle nuisance species)	9/3/2013	Dana Postlewait, Stormy Haught	Stormy to go back to ADF&G staff and try and get more information on what might be policy considerations that could be identified. Dana going to draft template for June 24, 2013.	ADF&G finds it is premature to comment. They prefer 1-2 years of field data before considerations are made. - parking lot item 07.09-02 created
07.09-02	ADF& G policy information on species management or how to handle nuisance species	7/9/2013	Dana Postlewait, Stormy Haught	ADF&G finds it is premature to comment. They prefer 1-2 years of field data before considerations are made.	ADF&G will comment in year 2015 after field data is available.

<u>ID</u>	<u>Completed Action Items</u>	<u>Date Completed</u>	<u>Responsibility</u>	<u>Distribution</u>	<u>Notes</u>
02.22-03	Confirm next meeting location	3/8/2013	AEA		Done. Next meeting will be held in Bellevue, WA. Future meetings will be held at most cost-effective locations.
02.22-04	Data needs table: Input from TWG on list of items	3/8/2013	All participants		
02.22-05	Add changes in spawning and rearing habitat in proposed inundation zone to data needs table	3/8/2013	R2		
02.22-07	Produce/distribute communications protocol from PAD (cc: Betsy, Ed, Sue)	3/8/2013	McMillen		Done 3/8/2013.
02.22-08	Standing agenda item for agendas – review and approve previous meeting notes and future meeting schedule	NA	NA		
02.22-09	Follow-up with others re: future participation in TWG; FERC (AEA), EPA (Catherine Berg), NGOs (AEA), ADF&G (AEA), FWS (Sue Walker), ADNR (Marie Steele), Jan Konigsberg (AEA)	3/20/2013	AEA, Catherine Berg, Marie Steele	Email	
02.22-10	Meeting protocol – summarize action items, decisions, parking lot items	NA	NA		
02.22-11	Identify other fish passage at high head dam experts	3/20/2013	MWH, R2, Ed Meyer		Done 3/20/2013.
02.22-12	Issue updated meeting and workshop calendar (Gantt chart)	3/20/2013	R2	FP-TT email	Done 3/20/2013.
02.22-13	Provide a list of all Susitna River species and life stages. Provide rationale of species not considered to travel to dam site	3/26/2013	R2	Website: Meeting Materials for April 9 and 10; Listserve email	

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02.22-14	Distribute updated data needs table and data synthesis to TWG	3/26/2013	R2	Website: Meeting Materials for April 9 and 10; Listserve email	Done 3/26/2013.
02.22-15	Provide a list of all Susitna River species and life stages. Provide rationale of species not considered to travel to dam site	3/26/2013	R2		Done 3/26/2013.
02.22-16	Distribute sample biological tool spreadsheet and description of tool	3/26/2013	R2	Website: Meeting Materials for April 9 and 10; Listserve email	Done 3/26/2013.
02.22-17	Presentation of videography at first workshop	4/9/2013	AEA	April 9 and 10, 2013 FP-TT	
03.20-01	Distribute MSWord document of 2/22/13 meeting notes to attendees for edits	3/20/2013	Kathryn Peltier	Email	Done. Betsy McGregor distributed to FP-TT 3/22/2013.
03.20-02	Create an archive list of completed action items	3/20/2013	Kathryn Peltier	Email	Done. Distributed to FP-TT 4/8/2013.
03.20-03	Update communication protocol and distribute	3/22/2013	Kathryn Peltier	Email	Done. Distributed to FP-TT in 3/20/2013 mtg notes on 4/8/2013.
03.20-04	Distribute list of all Fish Passage team members	3/22/2013	Kathryn Peltier	Email	Done. Distributed to FP-TT on 4/8/2013.
03.20-	Provide Ed Meyer with Dana Schmidt's resume	3/21/2013	MaryLou	Email	Done.

<u>ID</u>	<u>Completed Action Items</u>	<u>Date Completed</u>	<u>Responsibility</u>	<u>Distribution</u>	<u>Notes</u>
05			Keefe		MaryLou Keefe sent to Ed Meyer 3/21/2013.
03.20-06	Review Dana Schmidt's and Chick Sweeney's resumes as high head dam fish passage experts	3/22/2013	Ed Meyer	Email	Done.
03.20-07	Add to applicable entrainment reference in the data needs table	3/26/2013	MaryLou Keefe	Data Needs Table	Done.
03.20-08	Include reservoir effects on migration timing in the data needs table	3/26/2013	MaryLou Keefe	Data Needs Table	Done.
03.20-09	Provide MaryLouise Keefe with a detailed description regarding data needs of trophic cascade information	3/25/2013	Jeff Davis	Email, Data Needs Table	Done 3/26/2013.
03.20-10	Distribute draft Agenda for April 9 and 10 Fish Passage Meeting	3/27/2013	AEA	Website: Meeting Materials for April 9 and 10; Listserve email	
04.09-01	Provide edits to 2/22/2013 FP-TT meeting notes to AEA	Complete. Notes posted	FP-TT 2/22/2013 meeting attendees	Email for edits. Susitna-watanahydro.org	
04.09-02	Provide edits to 3/20/2013 FP-TT meeting notes to AEA	Complete. Notes posted	FP-TT 3/20/2013 meeting attendees	Email for edits. Susitna-watanahydro.org	
04.09-03	AEA to discuss its choice of additional fish passage experts with Ed Meyer/Sue Walker	Complete. Added Dr. Al Giorgi to FP-TT	Wayne Dyok	Phone call	
04.09-04	Provide FP-TT Information Needs Table in MSWord	Complete	Betsy McGregor	Email	Dana Postlewait distributed by email for

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					Betsy McGregor.
04.09-05	Include appendix titles in website link description/title	Complete. Posted	Justin Crowther	Susitna-watanahydro.org	
04.09-08	Flow duration data in Excel; data presented today plus totals	Posted	John Haapala, Dennis Dorratcague	Susitna-watanahydro.org	Dennis Dorratcague to reprint with pagination corrected for re-posting.
04.09-09	Need guidance from Wayne/AEA on how run of river scenario will be handled; and importantly when some scenarios with environmental flows will be available to be modeled and available to the FP-TT (in between run of river and maximum load following).	See 05.21-02	W Dyok		Merged with action item 5.21-02
04.09-10	Find out from Stuart when he will be completed with estimating flows in tributaries to reservoirs and just below dam – when that data will be available to the fish passage study team.	Complete.	MaryLou		Stage data to be collected this year, and stage/discharge relationships to be developed in 2014 with results available after 2014 season.
04.09-12	Distribute synthesis book to hand out before July 8-12 site visit. [now planned for Sept 17-19]	9/3/2013	Dana Postlewait, Dennis Dorratcague, Tim Sullivan	Planned for email and posting Susitna-watanahydro.org	FTP site link emailed by Dana Postlewait on 9/4/13
04.10-01	Update biological appendices to account for other target species added to Target Species list (those added into Table 1- No. B1 Biological Data Needs)	9/3/2013	MaryLou Keefe, Tim Sullivan	Nuisance species is another list and to date we	Dana Postlewait provided

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				have not included periodicity type information on those nuisance species.	electronically on 9/4/13
04.10-02	Fix appendix B2 to note lake trout are native	9/3/2013	Tim Sullivan		Dana Postlewait provided electronically on 9/4/13
04.10-03	Clarify Table B3 headings/categories and if appropriate update periods.	9/3/2013	Tim Sullivan	If needed follow up with smaller group of Stormy Haught, Jeff Davis, MaryLou Keefe.	Dana Postlewait provided electronically on 9/4/13
04.10-05	Take out Adult Chinook relative abundance bulleted item in the B7 slide (on relative abundance)	9/3/2013	Tim Sullivan	At request of Jeff Davis and Sue Walker – not really needed	Dana Postlewait provided electronically on 9/4/13
04.10-06	Create combined table to address design criteria information for B3-B6 for target species	9/3/2013	Tim Sullivan, MaryLou Keefe		Dana Postlewait provided electronically on 9/4/13
04.10-07	Obtain Chick Sweeney's input to Evaluation of Alternatives Matrix	9/3/2013	Chick Sweeney, Tim Sullivan, Dana Postlewait		Chick will provide draft to Dana Postlewait and Tim Sullivan by 8/26/2013. Tim and Dana

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					to add to 9/3/2013 distribution package.
04.10-09	Compile available mapping of tributaries with plan/profile information to extent possible prior to the workshop	9/3/2013	Dennis Dorrattcague, Dana Postlewait	For review/use at brainstorming meeting.	Dana Postlewait provided electronically on 9/4/13 and at the site visit.
05.21-01	Provide remaining edits to April 9-10, 2013 Workshop #1 meeting notes to AEA	5/24/2013	Jeff Davis and Sue Walker	Email	
05.21-02	AEA to follow up off-line with B. Long and S. Walker regarding operational scenarios. Need guidance from Wayne/AEA on how run of river scenario will be handled; and importantly when some scenarios with environmental flows will be available to be modeled and available to the FP-TT (in between run of river and maximum load following).	7/9/2013	Wayne Dyok	Phone call	Sue Walker will remind Wayne 7/9/2013 call.
05.21-04	Provide edits to Information Needs List and update table	Edits to AEA by 6/18/2013	Workshop #1 participants	Betsy McGregor to email MS-Word version participants for editing. Updated table distributed for 7/9/2013 meeting.	Distributed 6/24/2013
05.21-05	Doodle Poll for site reconnaissance	5/31/2013	Dana Postlewait, Betsy McGregor	Email	Completed confirming 9/17-9/20
05.21-06	Rework schedule/meeting list including 7/9/13 check-in and March 18-19, 2014 brainstorm session	7/15/2013	Dana Postlewait	Email	Done - Distributed with draft Meeting

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					Notes on 7/23/2013
05.21-07	Draft notes of 5/21/2013 check-in meeting and action items	5/31/2013	Steve Padula, Dana Postlewait, Tim Sullivan	Email	
07.09-01	Materials to be distributed 2 weeks prior to site visit <ul style="list-style-type: none"> - AI 04.09-12 - AI 04.10-04 - AI 04.10-07 - AI 04.10-09 - Information Needs Appendices - Safety/gear requirements for site visit - Workbook 	9/3/2013			
07.09-03	Review of the Information Needs Table	7/23/2013	FP-TT	Email to Dana Postlewait, with cc to Betsy McGregor.	R2 and MWH will consider comments for update to Table, to be distributed on 9/3/2013. (no comments received)
07.09-05; 07.09-06	Clarify attendance by "other participants and contacts": <ul style="list-style-type: none"> - Eric Rothwell (NMFS) - CIRI - FERC – Matt Cutlip - NGOs 	9/18/2013	Betsy McGregor	Update for next meeting	
07.09-07	Confirm site tour travel is feasible based on latest weather.	9/16/2013, by 17:00 ADT	Dana Postlewait	Email to meeting attendees	Dana Postlewait will confirm feasibility of helicopter

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					travel based on latest weather forecast, and coordinate with Betsy McGregor.

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SUSITNA-WATANA HYDRO

Agenda

Fish Passage Technical Team

Fish Passage Meeting #4

9/17 – 9/19/2013

LOCATION: Site Tour, Talkeetna, AK. (Northern Susitna Institute, 22510 Talkeetna Spur Road Talkeetna, AK 99676. <https://northernsusitnainstitute.org/>)

DATE/TIME: 9/18/13 8:30 am – 5:00 pm (AKDT)
9/19/13 8:30 am – 5:00 pm (AKDT)

SUBJECT: Fish Passage Site Tour and Brainstorm Preparation Meeting

GoTo MEETING: No phone connection will be provided for this meeting due to nature of meeting

Meeting Purpose and Objectives

- Tour site to help get familiar with the project site and surroundings associated with fish passage
- Review information updates and plan for next year's brainstorming meeting

Tuesday, 9/17: 6:00 PM - Informal group dinner (Optional)

All attendees are invited to dine at the Twister Creek Restaurant. Please RSVP if you would like to attend with a 'yes' via this link <http://doodle.com/8ivs4a3wxiseiusx> by Thursday, September 12th so we may make reservations.

Wednesday, 9/18: 8:30 am - Site Tour (WEATHER ALLOWING)

8:30 am Meet for flight and safety briefing, and to organize groups for helicopters.

- **Directions & Parking:** After crossing the RR tracks on 2nd Street, take the first right, then take the next right. The helipad will be in front of you. You will be directed where to park. Dana's cell phone is 425-890-7219 if anyone has trouble finding the helipad.

9:00 am Depart Talkeetna

- fly to Oshetna River, land and observe site
- fly to Kosina Creek, land and observe site
- fly to rock bar near proposed dam site, land and observe site
- fly to top of hill North of proposed dam site, land and observe site and surrounding country
 - We estimate 30-45 minutes at each site, including: land, shut down, de-plane, ~15-20 minutes of discussion, load, take off. Lunch will be provided by AEA at one of the sites.

3:00 pm (approximate) – return to Talkeetna. Drive to Northern Susitna Institute.

4:00 pm – Debrief in conference room at the Northern Susitna Institute.

5:00 pm – Meeting adjourn for the day, overnight in Talkeetna



SUSITNA-WATANA HYDRO

Thursday, 9/19: 8:00 am – 12:00 am (UNLESS WEATHER IS POOR, THEN SWITCH WITH WEDNESDAY)

- 8:00 AM** Review agenda and plan for the day
- Finalize agenda for day (if not able to fly to utilize additional time)
- 8:15 AM** Site tour debrief
- Continue discussion from previous day
- 8:30 AM** Review July 9 Meeting Items (Meeting 3a)
- Review meeting notes
 - Review action items
- 9:15 AM** Review updated material
- Review information needs list updates
 - Biological information
 - Physical information
 - 2013 Field Data Update
- 10:00 AM** Break
- 10:15 AM** Discuss upcoming Brainstorming Workshop #2
- Scheduled for March 18-19, 2014
 - Planning needs
 - Rules and facilitation
- 10:30 AM** Informal brainstorm
- Goals
 - Upstream passage
 - Downstream passage
 - Evaluation process and criteria
 - Review ideas and record action items
- 11:30 AM** Review Fish Passage Study Schedule and Next Steps
- Review updated meeting schedule and Gantt chart schedule
 - Critical path items
- 12:00 PM** Meeting concludes (or lunch if flights cancelled)