Compilation of Protocol Revisions

Updated May 14, 2007

General Changes:

Corridor for Phase 1 & 2 – We will be using one corridor for use in the Phase 1 & 2. It will be the old S09 Corridor but clipped to the valley walls (where available). The default corridor will still be drawn where no valley walls exist. A minimum of 100' on either side of the stream will remain the minimum buffer width off the stream line.

Phase 1

2.8 – Reference Channel Width – Updated the formula for channel width based on latest HGC.

Step 2 & 7 – Move all stream type information under the Step 2 heading. Added dominant bed form, material and sub class slope to Step 2. Added silt to dominant bed material reference stream type classification.

Step 4.3 – Riparian Buffer Width – Revised the protocol to be consistent with Phase 2. We will only be collecting the dominant and sub-dominant buffer widths for Phase 1 and indexing the location of buffers <25' wide.

5.1 – Flow Regs and Water Withdrawals
Changed the menu to be consistent with Phase 2. Added a size and use category for data entry.

Type

Withdrawal	A withdrawal of water from the stream
Bypass	The water is diverted away from the channel and re-enters down stream.
Run of River	Upstream or in reach flows are impounded. Flow quantity spilling or released below the dam is the same as flow quantity entering the impoundment at all times.
Store and Release	Water is impounded and stored and released only during certain times.
None	No known flow regulation or water withdrawals. Select "none" if you have completed the appropriate research and have found no evidence of flow regulations.
No Data	No data sources are available to determine if a flow regulation or water withdrawal exists.
Not Evaluated	All data sources (as described by the meta data) HAVE NOT been evaluated.

Size

Small	Impoundments not much wider than river itself or withdrawals not affecting the channel forming flow.
Large	Impoundments much wider than river itself (createng a reservoire) or withdrawals significantly affecting the channel forming flow.

Use

Drinking
Irrigation
Flood Control
Hydro-electric
Recreation
Other

6.1 – Berms and Roads – Added Improved Paths and Railroads. Each of the for categories will be indexed separately and can each of them be able to sum to 100%.

6.3 – Depositional Features: Added side, diagonal and islands to Phase 1 options for depositional features to be consistent with Phase 2.

6.4 – Migration – Added flood chute and neck cut off as options to be consistent with Phase 2.

7.2 - Change erosion to a length and index it like in Phase 2 with right and left bank. Revised impact rating to be consistent with other Phase 1 steps. High >20% or right or left bank, Low 5-20% or right or left bank, NS <5% of right or left bank. Got rid of bank height.

Generally made the impact ratings consistent between parameters.

PHASE 2

1.1 Segmentation Added a menu for segment not assessed for users to enter the rational for not assessing the segment.

Segment Not Assessed Menu

Wetland	Segment was dominated by wetland features and river characteristics were not able to be assessed
Impounded	Segment was dominated by influence from impoundment
No Property Access	Property Access was not granted

Bed rock gorge	Segment was dominated by bedrock gorge and
Beaver Dams	Multiple beaver dams have caused the segment to be impounded and river characteristics were not able to be assessed
Other	Describe reason for not assessing the segment in the comments

1.2 Alluvial Fan – Changed the alluvial fan to be consistent with the Phase 1 protocol. Assessors will look at maps and in the field to determine if the area may be an alluvial fan.

1.3 Encroachments – Change area of interest fro Belt Width corridor to the S09 corridor clipped to valley wall. Record the height of encroachments from the thalweg.

1.5 Confinement - Clarified to use the reference channel width when calculating the confinement in Phase 2.

1.6 Grade Controls - Remove location from grade control menu. We have them in FIT and no longer need this information.

2.1 Cross Sections – Clarified that cross sections must extend from valley wall to valley wall and include all important features such as thalweg, bankfull, floodprone, RAF and other abandoned terrace features.

2.5 Tried to clarify the definition of RAF.

2.12 Added silt to the pebble count.

2.14 Stream Type - Added slope to the Phase 2 as a data entry field if the assessor has the appropriate equipment to collect fairly accurate data.

3.1 Revetments - Changed wall to hard bank for bank revetments to be consistent with Phase 1 protocol.

3.2 Buffers - Now required to index stream sections with buffers less than 25 feet for both right and left bank. Remove category of <5 feet and lump with 0 to 25'.

4.4 Groundwater and Small Tribs – Changed some to minimal to be consistent with Phase 2.

4.5 Water Withdrawals and Flow Regulations - Categories are the same as above in Phase 1. Assessors will ONLY index in reach flow regs or withdrawals and will manually enter if one exists upstream.

4.6 New parameter! Note the presence of flow regulations and water withdrawals that are affecting the reach from upstream, downstream or both.

4.7 –Stormwater Inputs
Added a drop down for sub-impact including:

- Tile drain
- road ditch
- urban stormwater pipe
- field ditch
- overland flow

5.2 Added migration and clarified that braiding and bifurcation are the same.

5.5 Channel Alterations – Added commercial mining to the dredging menu to be consist with Phase 1. Separated out straitening into a separate menu and added with windrowing to be consistent with Phase 1.

*** New Phase 2 QA Protocol***

FIT for SGAT Version 4.56:

Add the following parameters to the FIT:

- Flow Regulations and Water withdrawals changed – see protocols (Phase 1 Phase 2)
- Buffer Zone <25' indexed (Phase 1 4.3, Phase 2 3.2)
- Bridge and Culvert Changed from a line to a point, manually enter the length of stream affected for Phase 1 impact rating. Note whether it is a bridge or culvert or unknown (Phase 1 only).
- Pull down for dredging to indicate exact location or approximate location
- Mass Failure – Index as a line instead of a point and add right / left bank for location
- Index location of cross sections. If multiple cross sections within a segment note the number starting downstream and moving up (most downstream would be 1, then 2, etc). Note if the cross section is representative or not.
- Add migration to the meander migration pull down
- Pull down for stormwater inputs to note:
  - Tile drain
  - road ditch
  - urban stormwater pipe
  - field ditch
  - concentrated overland flow

APPENDIX:

RMP - Appendix C: Explain in more detail the difference between D and F CEM.
RMP - Appendix P: Direction for FIT