TRUCKEE RIVER WATERSHED COUNCIL

PO Box 8568
Truckee, CA 96162
530-550-8760
www.truckeeriverwc.org

REQUEST FOR BIDS

SARDINE MEADOW RESTORATION PROJECT: CEQA PREPARATION

ADDENDUM 2

REQUEST FOR BID ISSUED: August 2, 2017
ADDENDUM 2 ISSUED: August 17, 2017

The following questions were received. Answers provided in italics below.

1. Thank you for the clarification of the study area provided in Addendum #1. To appropriately scope the field survey efforts, we are wondering if the TRWC can provide an estimated acreage for the proposed impact area?

The project area will be limited to the area north of the existing Henness Pass County road that traverses the southern portion of the parcel. This area is approximately 400 acres.

2. The RFB indicates that cultural resources are present; would it be possible for us to obtain a copy of any reports/documentation the TRWC has on file to appropriately scope the cultural resources survey and reporting task?

We are not aware of any formal reports.

3. The RFB indicates that only CEQA is needed but lists 401/404 permits as a future action, which suggests USACE may require the level of effort necessary to meet Section 106 and require SHPO consultation. Can the TRWC clarify if it prefers a Section 106-compliant cultural resources study to be prepared under this scope to facilitate future permitting actions?

A Section 106-compliant cultural is preferred.

4. Can the TRWC confirm if any potentially historic built features (such as extant historic roads/railroad features) are present within the project impact area that would necessitate a built environment study?

It is our understanding that the railroad grade system has been evaluated for this area and the grades present in the project area do not need any further evaluation.

TRUCKEE RIVER WATERSHED COUNCIL

PO Box 8568
Truckee, CA 96162
530-550-8760
www.truckeeriverwc.org

REQUEST FOR BIDS

SARDINE MEADOW RESTORATION PROJECT: CEQA PREPARATION

ADDENDUM 1

REQUEST FOR BID ISSUED: August 2, 2017
ADDENDUM 1 ISSUED: August 16, 2017

Please be aware of the following clarifications and changes to the original RFB:

1. Size of study area has been changed. Please see the map on the following page for clarification of the study area. Only the parcel held by the Trust for Public Land will be included in this phase of CEQA assessment.

2. Clarification of deliverables. The list of deliverables on page 3 of the original RFB should read:

Deliverables

- Project launch meeting
- Digital copies of all data collection and analysis ~~and designs~~
- Participation at landowner & stakeholders meetings
- CEQA documentation
- Quarterly progress reports and invoices

No design work is included in the Scope of Work for CEQA preparation.

3. Clarification of proposal due date. Proposals are due by 5 PM, Thursday August 31st.

Study Area outlined in red.

Sardine Valley Restoration

Map 3 - Proposed Action

N

0 1,000 2,000 4,000

Feet

Reroute Channel Type

- Primary Historic (Natural) Channel
- Secondary Historic (Natural) Channel

Remediation

- Whole Channel Fill
- Remove/Regrade

Current Channels

- Current Entrenched/Degraded Channel
- Current Secondary Channel Disconnected from Current Main Flow
- Existing Remnant Channels/Swells

Roads

- Dirt Road
- Improved Road

Man-Made Structures

- Remnant Road/Current Channel
- Historic Railroad Grade
- Fence
- Dam
- Check Dam
- Culvert
- Diversion Dam
- Flow Gauge
- Groundwater Monitoring Well
- USFS Land
- 5ft Contours

foriver
TRUCKEE RIVER WATERSHED COUNCIL

August 2, 2017

REQUEST FOR BIDS

SARDINE MEADOW RESTORATION PROJECT: CEQA PREPARATION

Consulting services to encompass all labor, materials, equipment, facilities, and incidentals required to:

- Prepare California Environmental Quality Act (CEQA) document for Sardine Meadow Restoration Project

The consulting team shall have demonstrated experience in CEQA preparation including experience with cultural resource and biological surveys. Experience with meadow and stream restoration and working with stakeholder groups are also desired. The team must be willing to work with the Truckee River Watershed Council (TRWC) – project lead, the Trust for Public Land (TPL) - land owner, the U.S. Forest Service, Tahoe National Forest (USFS) – project designer, and the Lahontan Regional Water Quality Control Board (LRWQCB) - CEQA lead agency and adjacent landowners.

DEADLINE

Proposals must be received electronically (.pdf format) by 5:00PM on Thursday, August 31, 2017.

SUBMISSION

Submit proposals electronically (.pdf format) to: bchristman@truckeeriverwc.org.

REQUESTS FOR ADDITIONAL INFORMATION

Please direct all questions to Beth Christman, bchristman@truckeeriverwc.org, (530) 550-8760 x1#. If formal responses are needed, these will be published in our e-newsletter and posted to www.truckeeriverwc.org in the "News" section. Please sign up for the e-newsletter and/or check the website for updates.

All requests for additional information must be received by August 17th, 2017.

530.550.8760
P.O. Box 8568
Truckee, CA 96162
www.truckeeriverwc.org

TIMELINE

Activity	Completion Date
Bids Due	Aug. 31, 2017
Interviews	Week of Sept. 4, 2017
Scope of Work and Contracting	Sept. 13, 2017
Launch Meeting	Week of Sept. 19, 2017
CEQA Draft	Dec 2017
CEQA Filing	Jan 2018
Quarterly Progress Reports & Invoices	Mar 25, June 25, Sept 25, Dec 15

INTRODUCTION AND BACKGROUND

Location

The work requested here is located in Sardine Valley, north of Stampede Reservoir in Sierra County. Three parcels are included, two held by private ranchers, one held by Trust for Public Land.

Site Access

Site access prior to contract award must be coordinated through Beth Christman at TRWC: bchristman@truckeeriverwc.org, (530) 550-8760 x1#.

Sardine Meadow Restoration

Sardine Meadow is a 900-acre meadow located in the Davies Creek watershed. The meadow is under private ownership. The stream channel has been substantially diverted through railroad construction, road construction, and diversions related to grazing. As a result, the stream channel has downcut and is dewatering the adjacent meadow. Much of the valley has converted to sagebrush upland habitat. The existing stream channel is actively eroding. Restoration has been successfully completed on adjacent USFS land upstream and downstream of the project area. Due to a recent change in landownership, restoration of the entire 900 acres is now possible. Restoration activities include filling the existing stream channel with locally derived fill material, removing some of the abandoned road materials, and drainage improvements on the adjacent County Road. Fill material may be generated from nearby upland areas or from scheduled construction work on Stampede and Boca dams.

The USFS is preparing the restoration design. Again, please note the project in on private land and NEPA is not required and not included in this scope of work.

Existing Studies and Previous Work

- Restoration concept design - attached

WORK TO BE COMPLETED

Task 1. Preparation of CEQA for Sardine Meadow Restoration project

Task 1.1 Data Review and Collection

Watershed level data is available from the USFS from the Environmental Assessment prepared for the Merrill Davies restoration project (phase 1).

Field surveys will be required to complete CEQA. Field surveys will be limited to the proposed impact area including staging, borrow sites, and access routes.

Known CEQA concerns include cultural resources and sensitive plants. Historic and pre-historic cultural resources are present in and near the project area. A population of sensitive plants (Plumas Ivesia; *Ivesia sericoleuca*) is located within the project area.

Task 1.2: CEQA Documentation

Produce CEQA documentation and assist TRWC and LRWQCB in filing. The CEQA document is anticipated to be a Mitigated Negative Declaration.

Again, please note that LRWQCB will complete the filing: this scope of work includes assistance to TRWC and LRWQCB,

Task 2: Project Management, Coordination, and Reporting

Coordinate with TRWC staff regarding the status of the project.

Consultant will produce quarterly invoices and progress reports and submit to TRWC by the 25th of the last month of the calendar quarter (with the exception of December, March 25th, June 25th, September 25th, and December 15th).

Copies of all survey, data collection and analysis, and design work will be provided to TRWC in electronic form (Word, Excel, or Adobe pdf).

Deliverables

- Project launch meeting
- Digital copies of all data collection and analysis and designs
- Participation at landowner & stakeholders meetings
- CEQA documentation
- Quarterly progress reports and invoices

PROPOSAL FORMAT

There is no page limit, but ***30 pages or less is preferred***. Concise writing and graphics are greatly appreciated.

Detailed Work Plan & Schedule

Objectives: Identify and discuss briefly the specific objectives you will achieve through the conduct of the services within the project, as defined and specified above.

Scope: Define specifically the scope of services to be provided to complete the above described project tasks. The consultant may elect to suggest modifications to the scope above. Include estimated time schedule of the major tasks to be accomplished.

Detailed Work Approach: Discuss in detail each of the activities you will conduct to achieve the scope and objectives defined and identified above. Please specifically address work components outlined above and elaborate as needed. Include a timeline or schedule. Modifications to the components listed in the work statement can be included. Technical merit and details of work proposed will be heavily weighted in proposal evaluation.

Cost Estimate

Personnel Costs: Itemize by task to show the following (include subcontractors):

- Name and title
- Estimated hours per staff person, per task: *Note: it is acceptable to include a range of hours for selected tasks.*
- Rate per hour
- Total cost per task: *Note: it is acceptable for total cost per task to be a range*

Support costs: supplies, printing, postage, etc.

Transportation: Travel expenses directly related to the contract services. Mileage must be charged at the current IRS rate.

Other costs: Show costs and expenses that do not fall within the other categories.

General overhead and administrative charges not allowed.

Qualifications and References

If you have completed work or submitted proposals to work with TRWC before, please list the most recent project or proposal.

530.550.8760
P.O. Box 8568
Truckee, CA 96162
www.truckeeriverwc.org

Include experience with CEQA preparation – specifically any CEQA completed for restoration projects; list at least three (3) specific projects which demonstrate this experience.

Include a duty statement and resume of each key person to be assigned to the project, by name and title, with experience in pertinent fields. If subcontractors will be used, include a description of those persons or firms including a description of their qualifications.

Provide a minimum of three references for similar projects, with name and phone number.

CONTRACT TERMS AND AGREEMENT

Once a contractor is selected, TRWC will negotiate a satisfactory contract and reasonable fee for the services needed. In the event a satisfactory agreement cannot be negotiated with the top ranked qualified firm, the negotiations shall be terminated with the firm and the negotiations continued with the remaining qualified firms in order of their ranking.

When the contract is awarded, these terms will apply.

Payments

Progress payments for services performed shall be made in arrears upon receipt and approval of contractor's detailed invoices indicating costs and obligations incurred and services rendered to date. Payments will be made quarterly.

Changes in Personnel

Contractor's key personnel as indicated in contractor's response to this RFP may not be substituted without the written consent of the TRWC Project Manager. This will be monitored and enforced by TRWC.

Termination for Convenience

TRWC may, at its option, terminate the contract at any time upon thirty (30) day written notice to contractor. Contractor may submit written request to terminate only if TRWC should substantially fail to perform its responsibilities as provided in the contract. If terminated, contractor will be compensated for costs incurred up to the time of the termination notice for work satisfactorily completed. In no event shall payment of such costs exceed the contract price.

Unique Billing of Work

All work produced for the project will be original for TRWC, and will not have been billed to other clients previously. Work produced under the contract with TRWC will be billed only to the contract with TRWC and not to other clients or funders.

530.550.8760
P.O. Box 8568
Truckee, CA 96162
www.truckeeriverwc.org

Liability Insurance

Contractor shall provide before entering the premises and shall maintain in force during the term of this contract the following liability insurance:

- General Liability
- Motor Vehicle Liability

Each policy of liability insurance described above shall be in an amount of not less than one million dollars ($1,000,000) per occurrence for bodily injury and property damages combined.

Quarterly Progress Reports

Contractor to provide quarterly progress reports and meet with TRWC representatives upon reasonable notice to allow TRWC to determine if the contract is on the right track, whether the project is on schedule, provide communication of interim findings, and afford occasions for airing difficulties or special problems encountered so that remedies can be developed. All reports will be in Microsoft Word or Adobe pdf format. Data shall be provided in Microsoft Excel files as appropriate.

Quarterly Invoicing will include detail of task, delineated staff by name, hours, rate, total for the period, and remaining amount. Reports will be submitted in Microsoft Word/Excel or Adobe.

Attachment 1. Draft Conceptual Restoration Design – Sardine Meadow.

530.550.8760
P.O. Box 8568
Truckee, CA 96162
www.truckeeriverwc.org

Sardine Valley Restoration

Background

Sardine Valley is the heart of Davies Creek Watershed with Davies Creek being tributary to the Little Truckee River via Stampede Reservoir (Map 1 – vicinity and watershed). Sardine Valley Restoration encompasses over 700 acres of degraded riparian meadow system and over 10,000 feet of degraded stream. Davies Creek Watershed drains approximately 20 square miles of watershed through Sardine Valley. Elevation of the watershed ranges from 6045 ft to 8129 ft and has a mean annual precipitation of approximately 35 inches per year with much of the annual precipitation coming down as snow.

The Davies Creek Watershed and Sardine Valley have been impacted through railroad grade construction, railroad/steam donkey logging, road building, grazing, and recent era logging. These actions have degraded most of the stream segments running through the alluvial meadow systems causing them to incise and erode (Map 2 – current condition). This is evident by the eroded gullies through the meadow systems and the early efforts to stop the erosion with rock check dams and other signs of trying to prevent erosion. The USFS did the latest round of restoration projects, planning and implementing six stream and meadow improvement projects between 2001 and 2005.

In southern portion of Sardine Valley the stream has been diverted from its natural location from railroad grade construction, road construction, culvert installation and construction of a small dam. These impacts have caused the stream to divert from the southern side of the valley to the northern side of the valley. Davies Creek is currently flowing in its diverted channel on the norther portion of the alluvial fan. The channel has incised, downcut and widened over time, capturing the flows in the incision and preventing the spring runoff from flooding the meadow surface and acting as a drain for water that does get into the meadow profile. The natural channels on the south side of the alluvial fan are in relatively good condition with a few area where the stream got out of its natural track and incised a bit. The main degraded area on the south side of the fan is an old road or railroad grade alignment that has captured the flow and eroded a fairly straight channel down the meadow. There is a railroad grade in the bottom portion of the valley that has captured and diverted the stream flow I that area, again causing the stream to incise and erode but not in the natural channel that is still evident on the meadow surface.

DRAFT

Restoration Proposal

The design approach utilized for Sardine Valley applies the principles of fluvial geomorphology, the science of landscapes formed by flowing water, to understand the processes that have governed the development of the meadow. This method also helps determine the possible mechanisms that have led to channel degradation and loss of floodplain connection/ecosystem function. The approach combines significant quantitative data with qualitative observation and historical overview of land uses, both onsite and watershed-wide.

The proposed restoration of Sardine Valley is as simple as returning Davies Creek to its historic channels on the south side of the valley and obliterating (filling) the current degraded channels on the north side

of the alluvial fan and in the lower portion of the valley (Map 3 – proposed restoration actions) . Restoration actions include:

- Removing the impediments to flow in the natural historic channel in the upper canyon reach (the railroad grade and the small dam) to return flow to the natural channels.
- Designing and installing new culvert/drainage crossings for the county road near the top of the valley.
- Filling the degraded channel (completely or partially) so that it no longer captures water flow or acts as a drain on the seasonal water table.
- Obliterating (filling) the old road/railroad alignment going down the south side of the valley.
- Filling in portions of the degraded channels on the south side of the fan to return flows to the meadow surface and historic remnant channels.
- Removing the railroad grade in the lower portion of the meadow and reconnecting the historic channel system on the meadow surface.

The volume of soil needed to fill the degraded channel segments completely is estimated to be 80,000 cubic yards. The final design will likely fill some sections completely and some sections intermittently, leaving voids that will fill seasonally with ground and surface water. Barrow sites for fill are still being determined but may include sites in and adjacent to the valley, bed and banks of stream degraded stream channel (typical plug and pond design), or off site fill. All barrow sites will have to be screened for archeology, botany and wildlife concerns. One source of outside fill may be soil dredged out of Boca Reservoir while BOR does safety work on Boca dam.

All vegetation in the current degraded channel system will be salvaged and used for revegetation of the fill and disturbed areas.

DRAFT

Cross Sections and ground data

Map 4 Shows cross section, stream and valley segment locations that correspond to associated data. Cross section are included as an appendix.

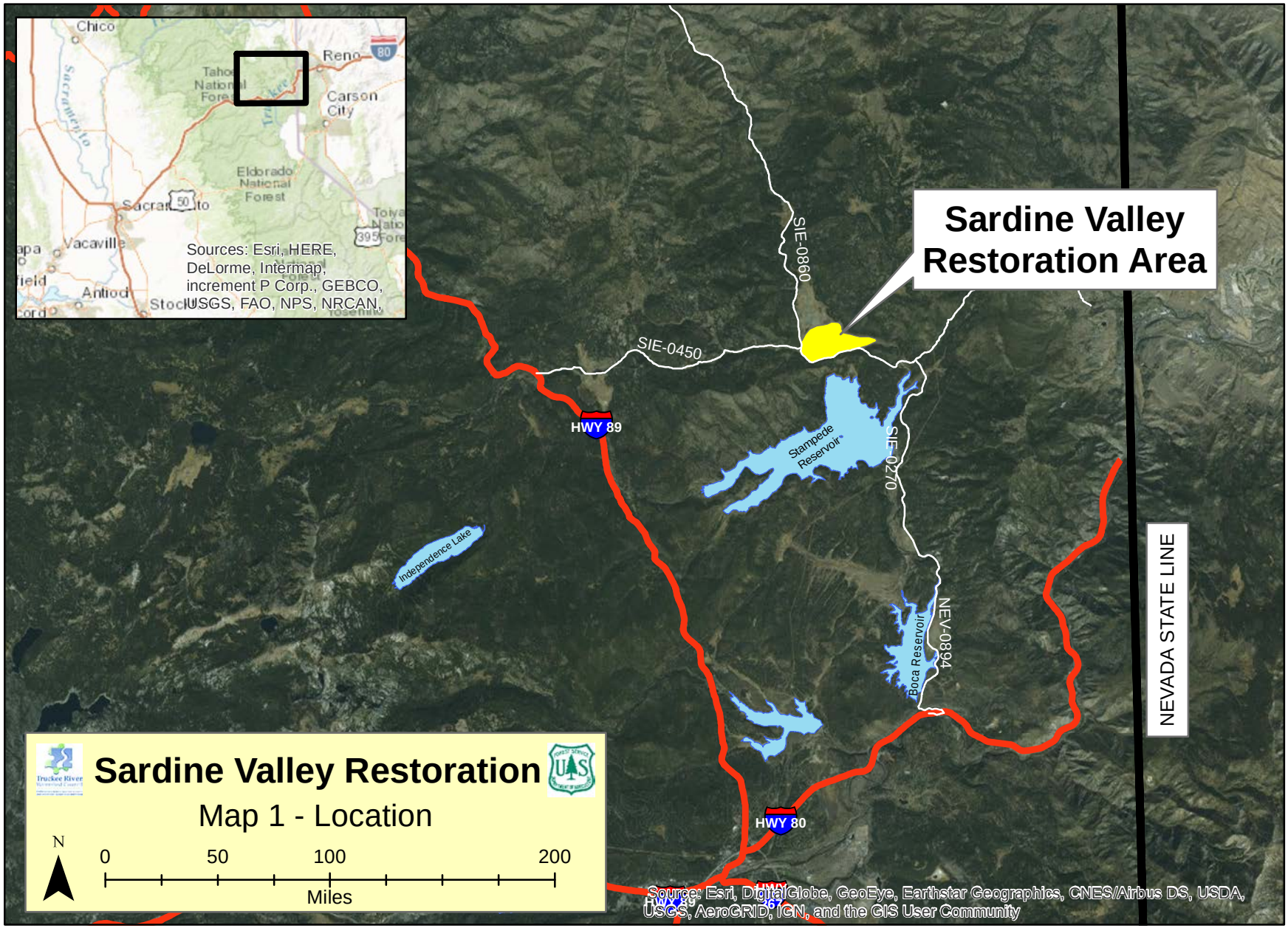
Next Steps

The draft conceptual design has been completed. The next steps are:

- Acquire planning/permitting funding
- Complete CEQA assessment of proposed action
    - Archeology – inventory sites where ground disturbance is proposed
    - Botany – rare plants/weeds
    - Wildlife Biology
    - Aquatic Biology
    - Hydrology/Water quality
- Wetland delineation

- Final design and layout
- Permitting – 401, 404, streambed alteration agreement
- Develop implementation plan and budget
- Acquire implementation funding
- Implement Project
- Monitor effects of project

DRAFT


Chico
Reno
Carson City
Eldorado National Forest
Sacramento
Vacaville
Antioch
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN,
Sardine Valley Restoration Area
SIE-0860
SIE-0450
HWY 89
Stampede Reservoir
SIE-0270
Independence Lake
Boca Reservoir
NEV-0894
NEVADA STATE LINE
HWY 80
Sardine Valley Restoration
Map 1 - Location
N
0
50
100
200
Miles
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Sardine Valley Restoration

Map 2 - Current Condition

N

0 1,000 2,000 4,000

Feet

Current Channels

- Current Entrenched/Degraded Channel
- Current Secondary Channel Disconnected from Current Main Flow
- Existing Remnant Channels/Swells
- Improved Road
- Dirt Road
- USFS Land
- 5ft Contours

Man-Made Structures

- Remnant Road/Current Channel
- Historic Railroad Grade
- Fence
- Dam
- Check Dam
- Culvert
- Diversion Dam
- Flow Gauge
- Groundwater Monitoring Well

Sardine Valley Restoration

Map 3 - Proposed Action

N

0 1,000 2,000 4,000

Feet

Reroute Channel Type

- Primary Historic (Natural) Channel
- Secondary Historic (Natural) Channel

Remediation

- Whole Channel Fill
- Remove/Regrade

Current Channels

- Current Entrenched/Degraded Channel
- Current Secondary Channel Disconnected from Current Main Flow
- Existing Remnant Channels/Swells

Roads

- Dirt Road
- Improved Road

Man-Made Structures

- Remnant Road/Current Channel
- Historic Railroad Grade
- Fence
- Dam
- Check Dam
- Culvert
- Diversion Dam
- Flow Gauge
- Groundwater Monitoring Well
- USFS Land
- 5ft Contours

Segment A

Segment B

Segment C

N_A-A'

N_B-B'

N_C-C'

N_D-D'

N_E-E'

S_A-A'

S_B-B'

S_C-C'

S_D-D'

S_E-E'

Sardine Valley Restoration

Map 4 - Stream Profiles and Cross-Sections

N

0 1,000 2,000 4,000

Feet

Reroute Channel Type

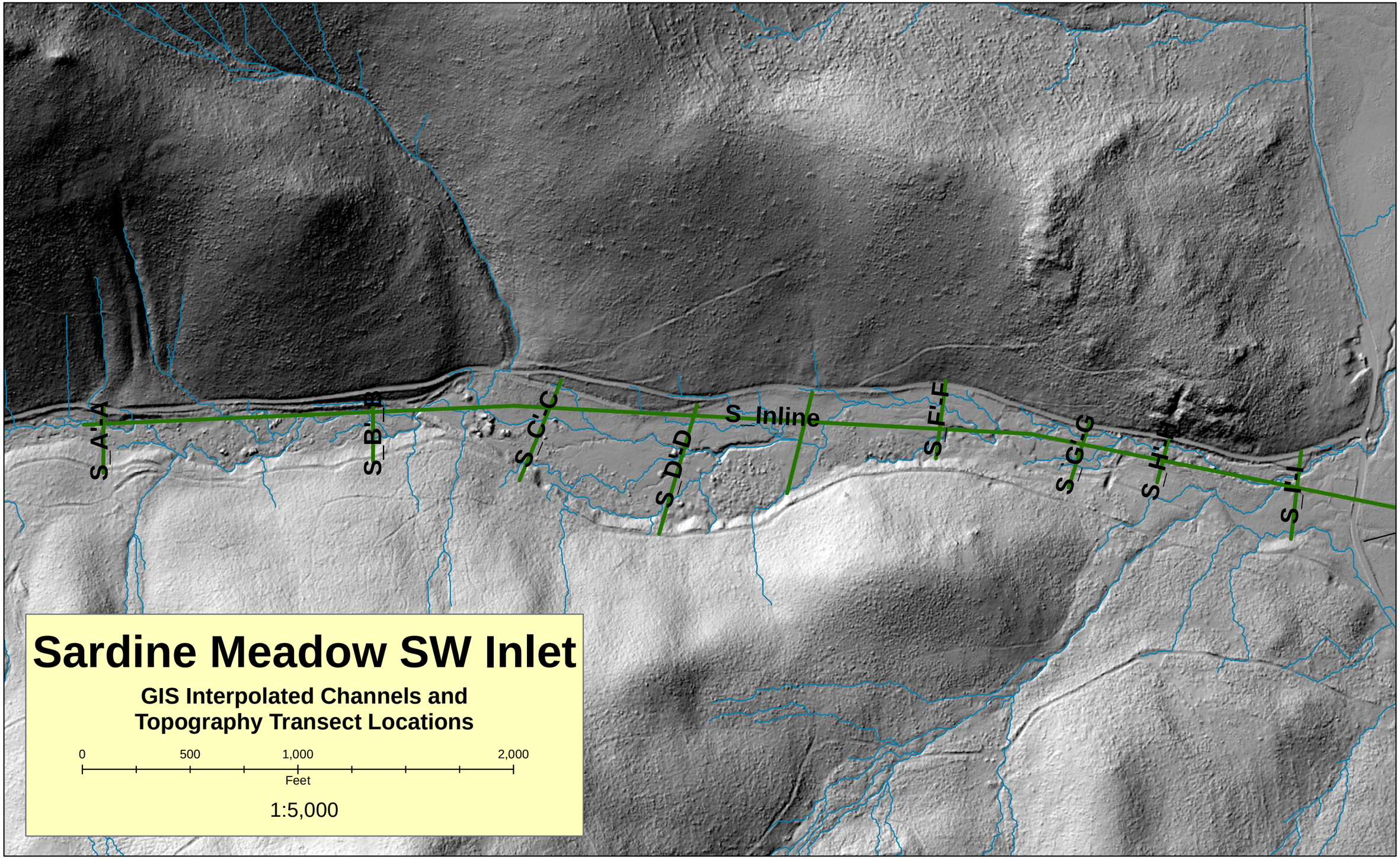
- Primary Historic (Natural) Channel
- Secondary Historic (Natural) Channel

Remediation

- Whole Channel Fill

Channel

- Current Entrenched West
- Current Entrenched East
- Secondary_A
- Secondary_B
- Secondary_Road
- Secondary_C
- Post_RailRoad
- Valley
- Existing Remnant Channels/Swells
- USFS Land
- 5ft Contours



Sardine Meadow SW Inlet

GIS Interpolated Channels and Topography Transect Locations

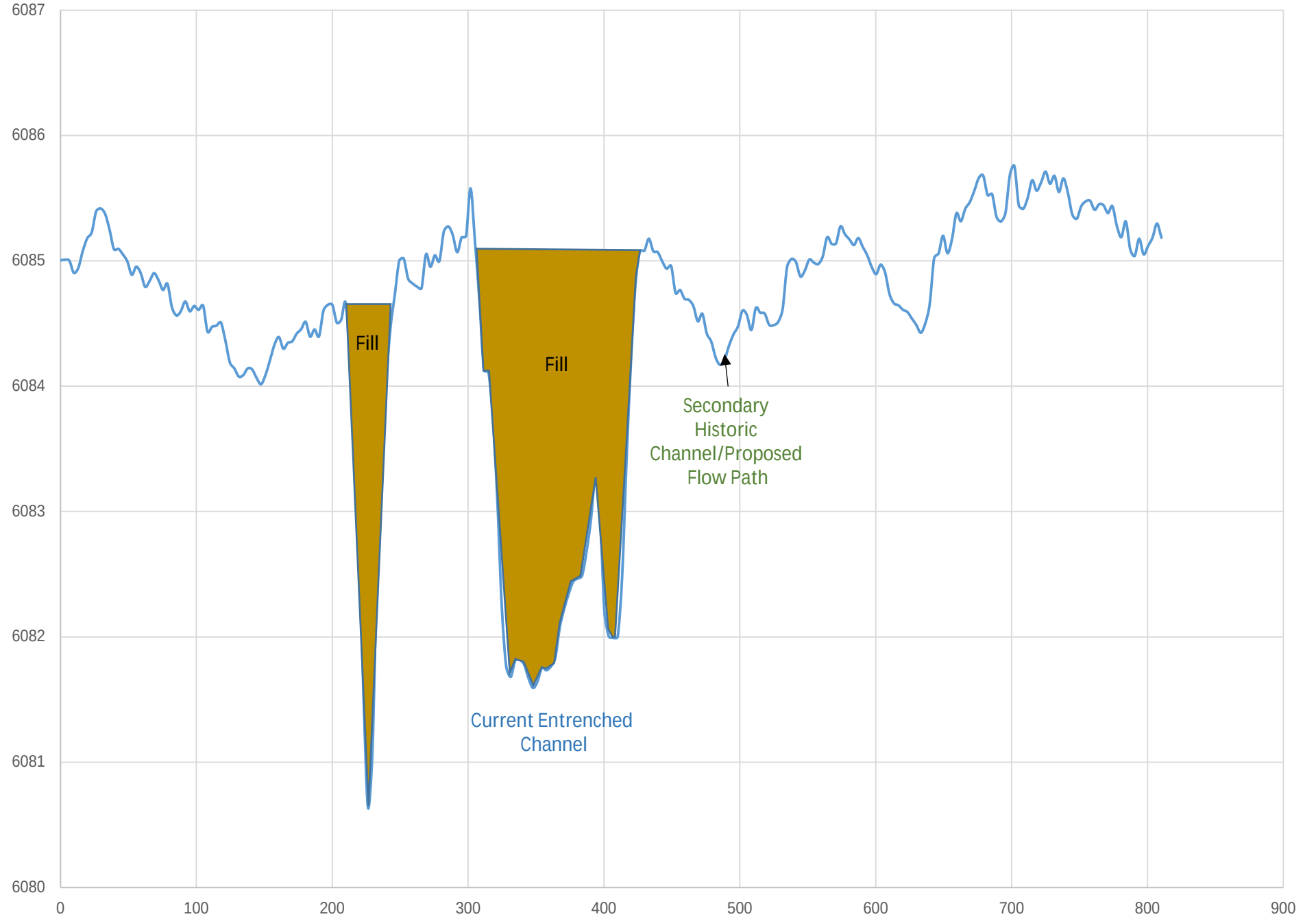
0 500 1,000 2,000

Feet

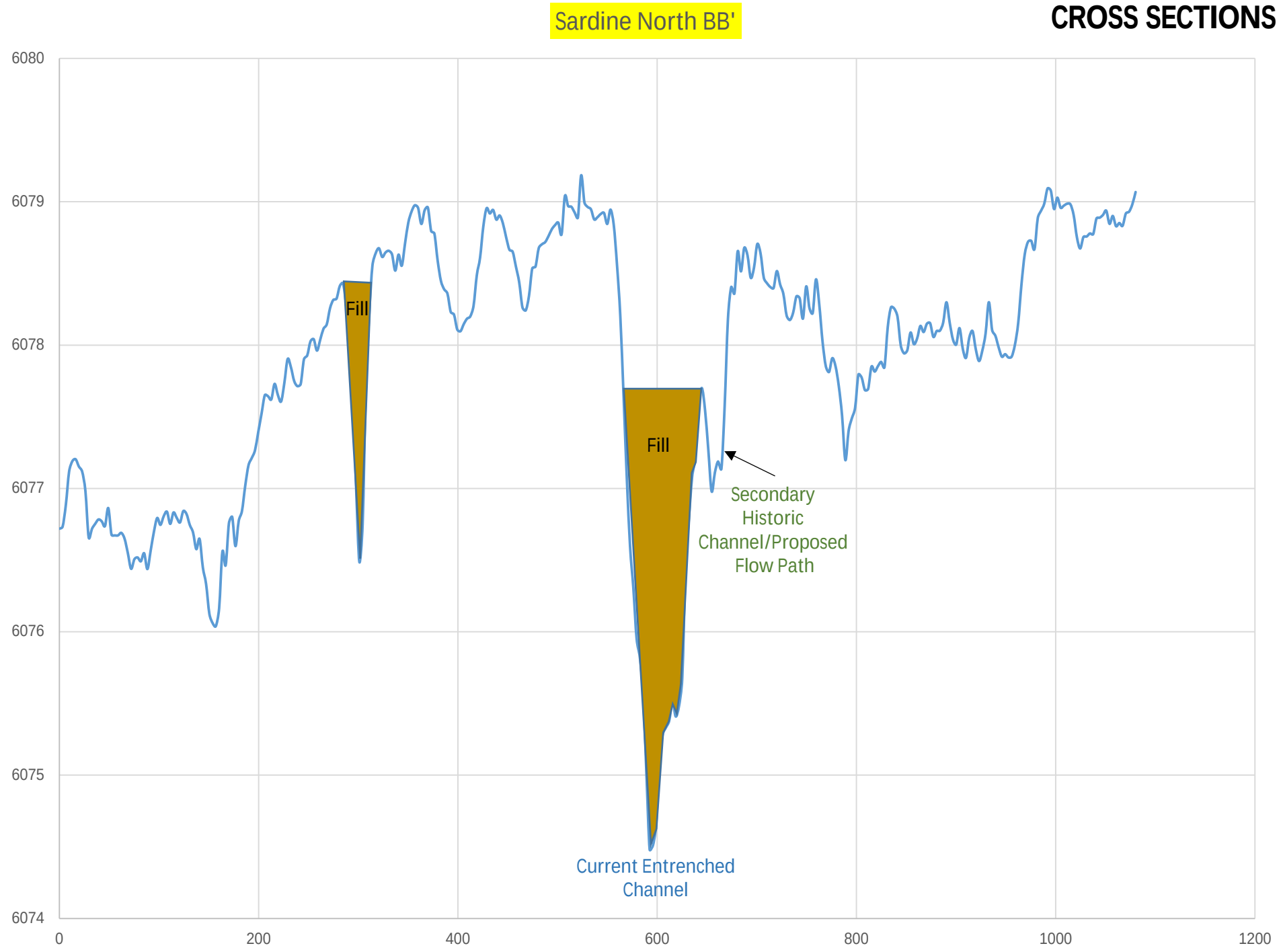
1:5,000

Sardine North AA'

CROSS SECTIONS

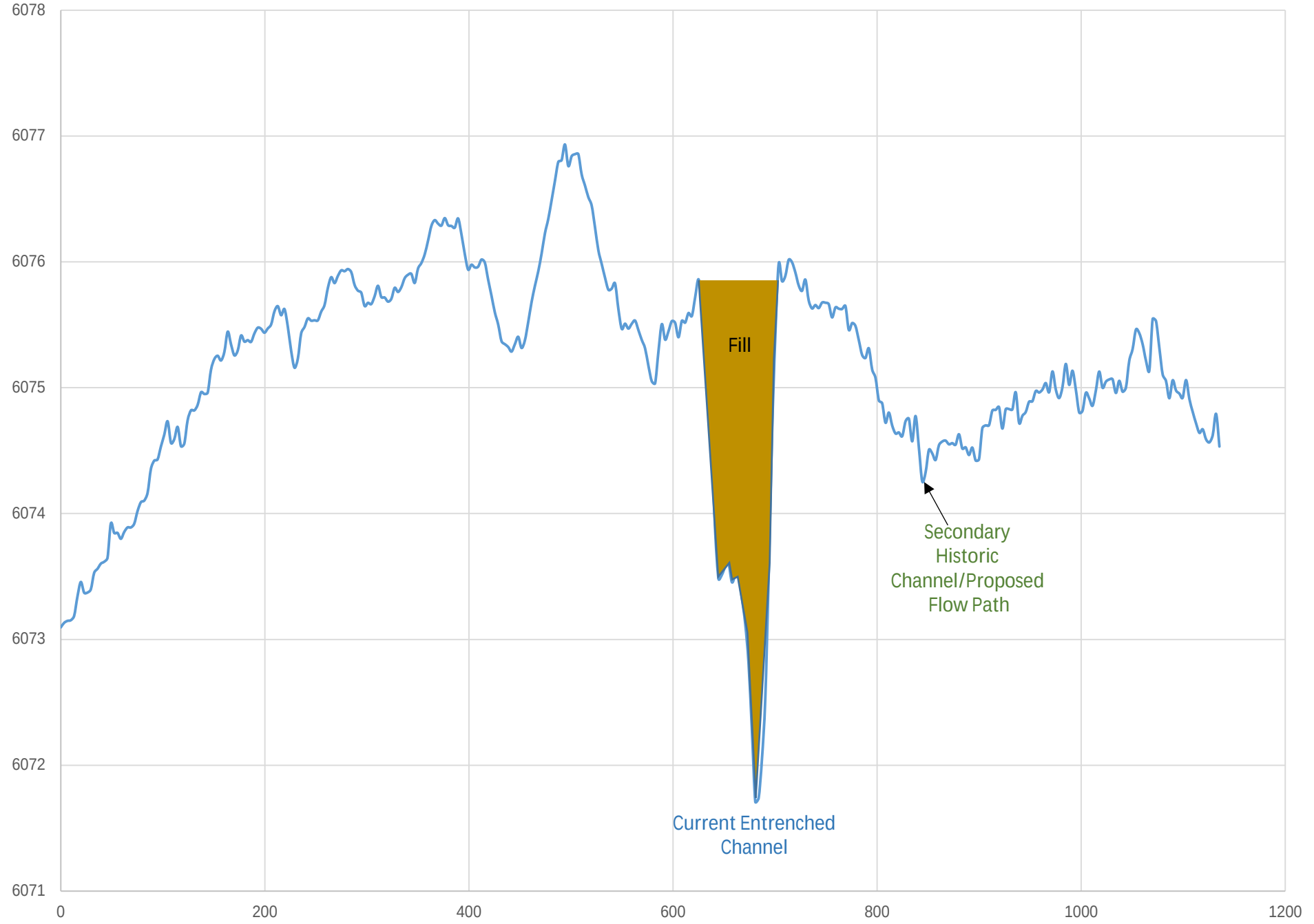


CROSS SECTIONS



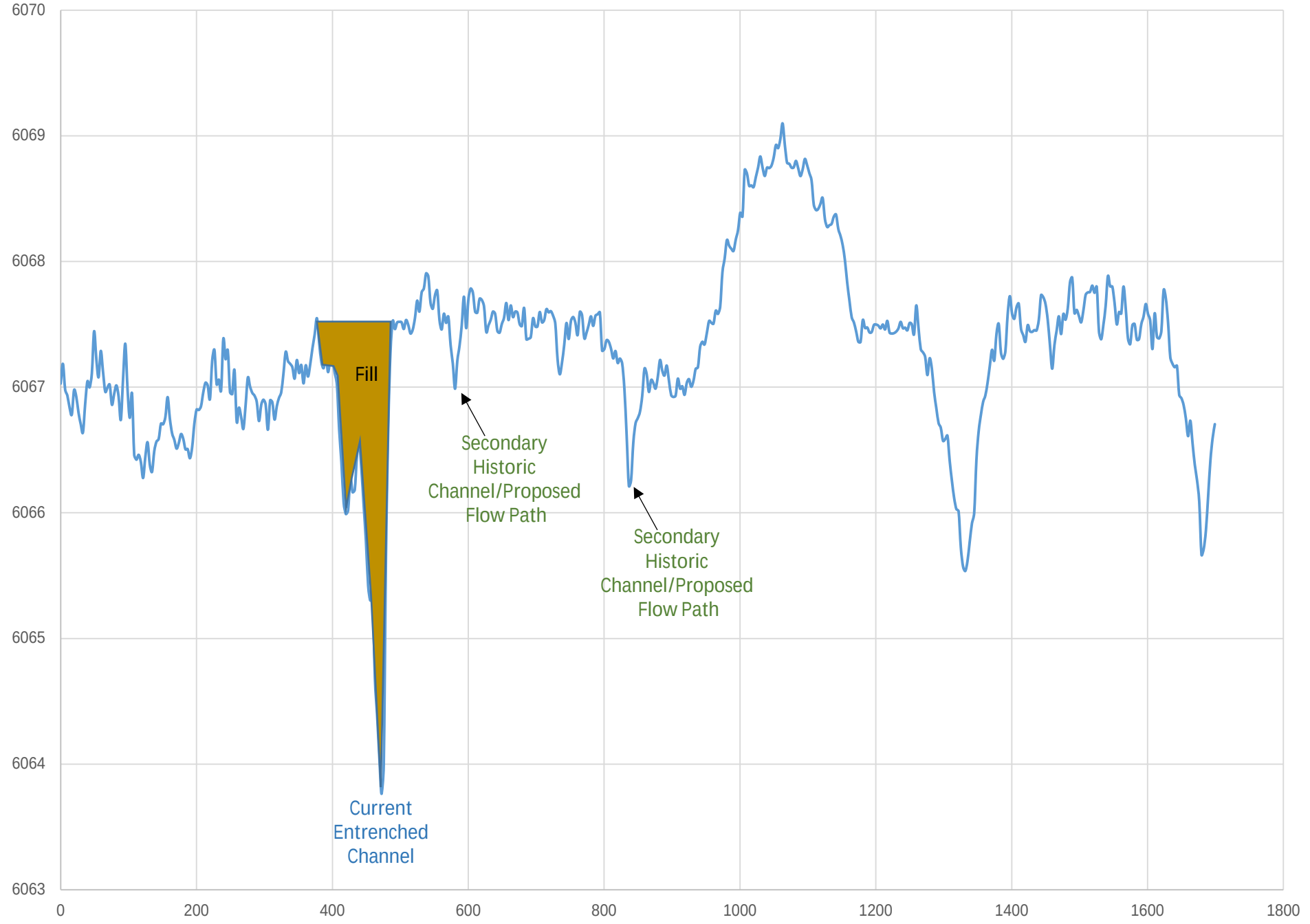
Sardine North CC'

CROSS SECTIONS



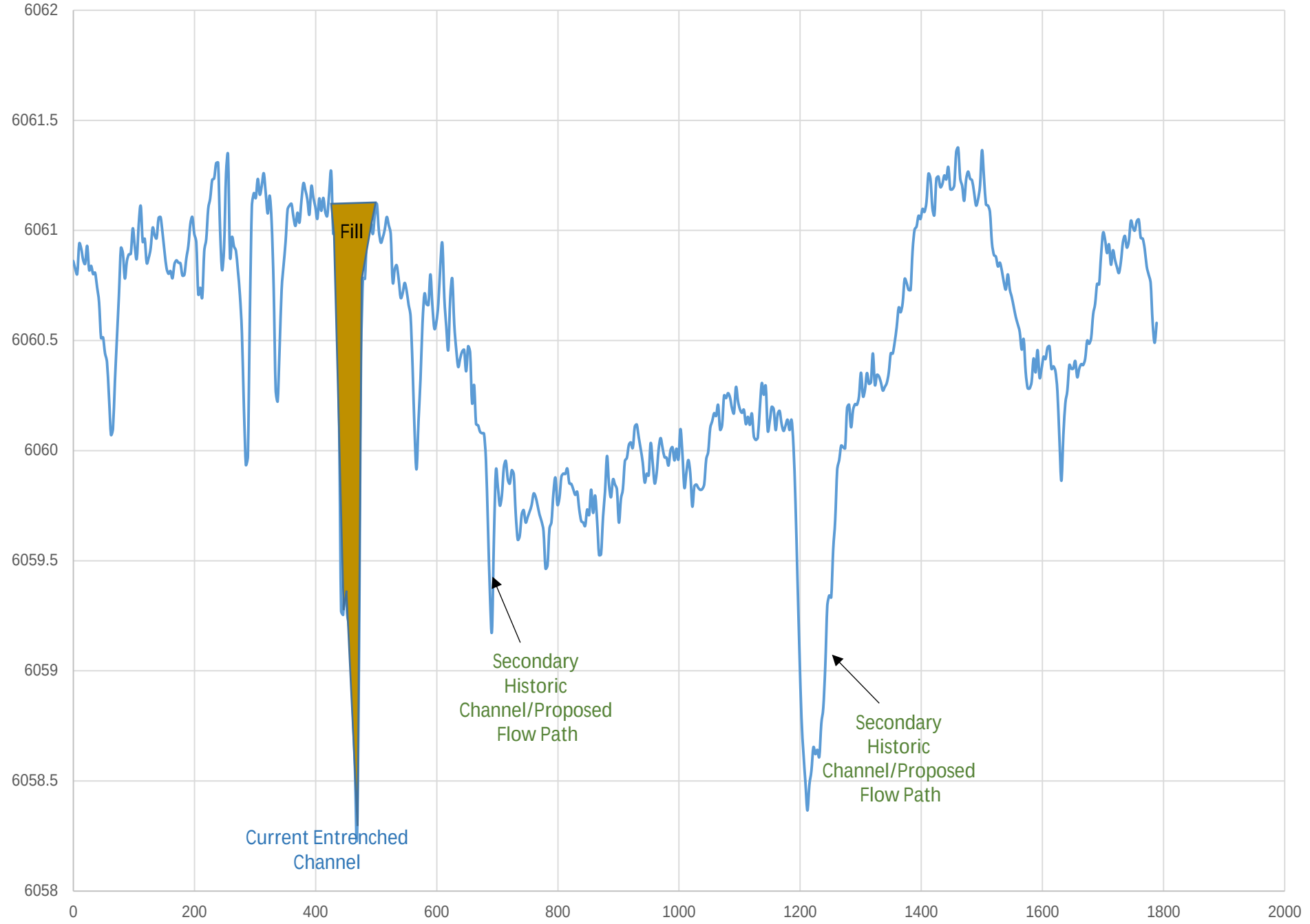
Sardine North DD'

CROSS SECTIONS

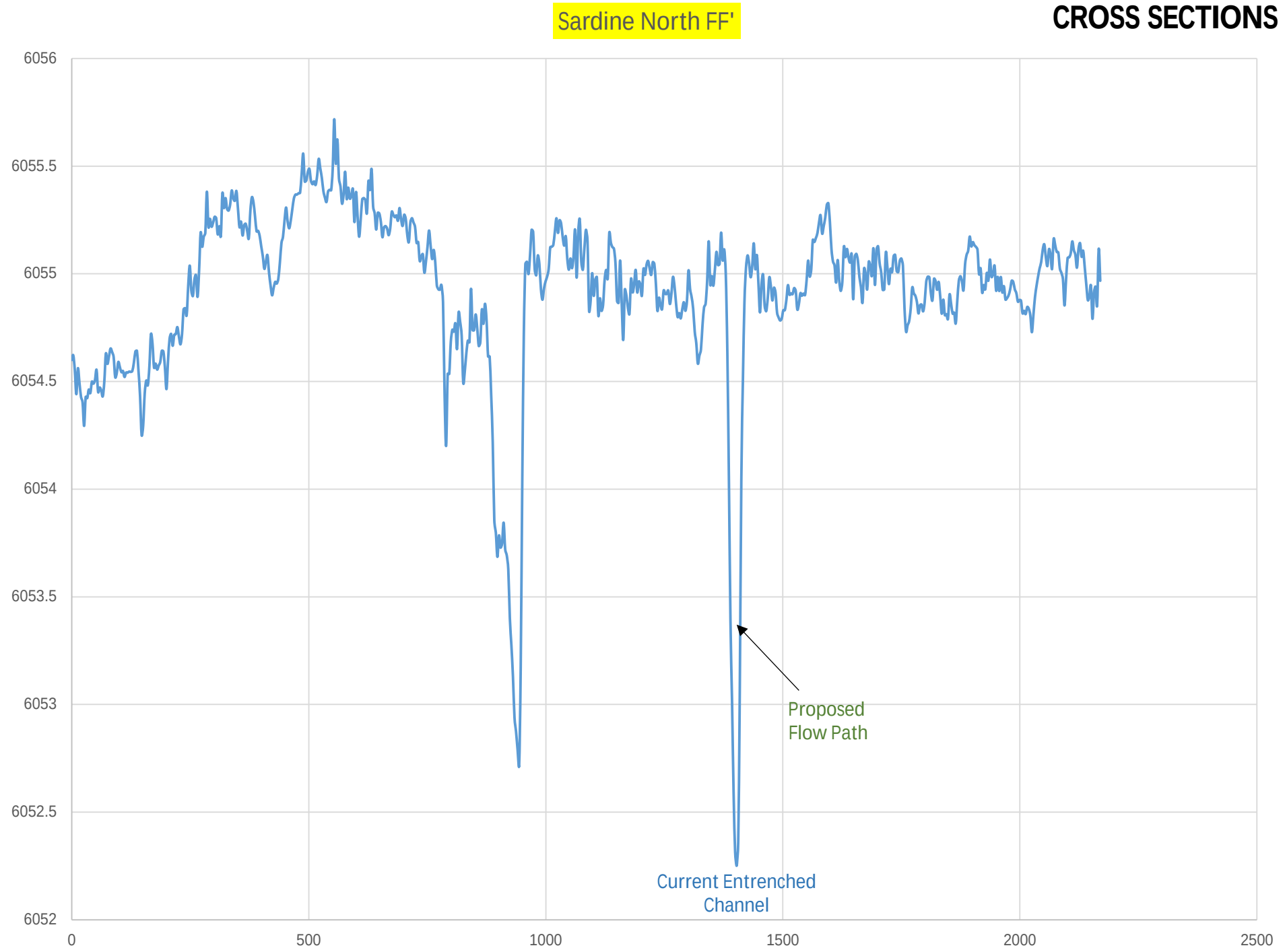


Sardine North EE'

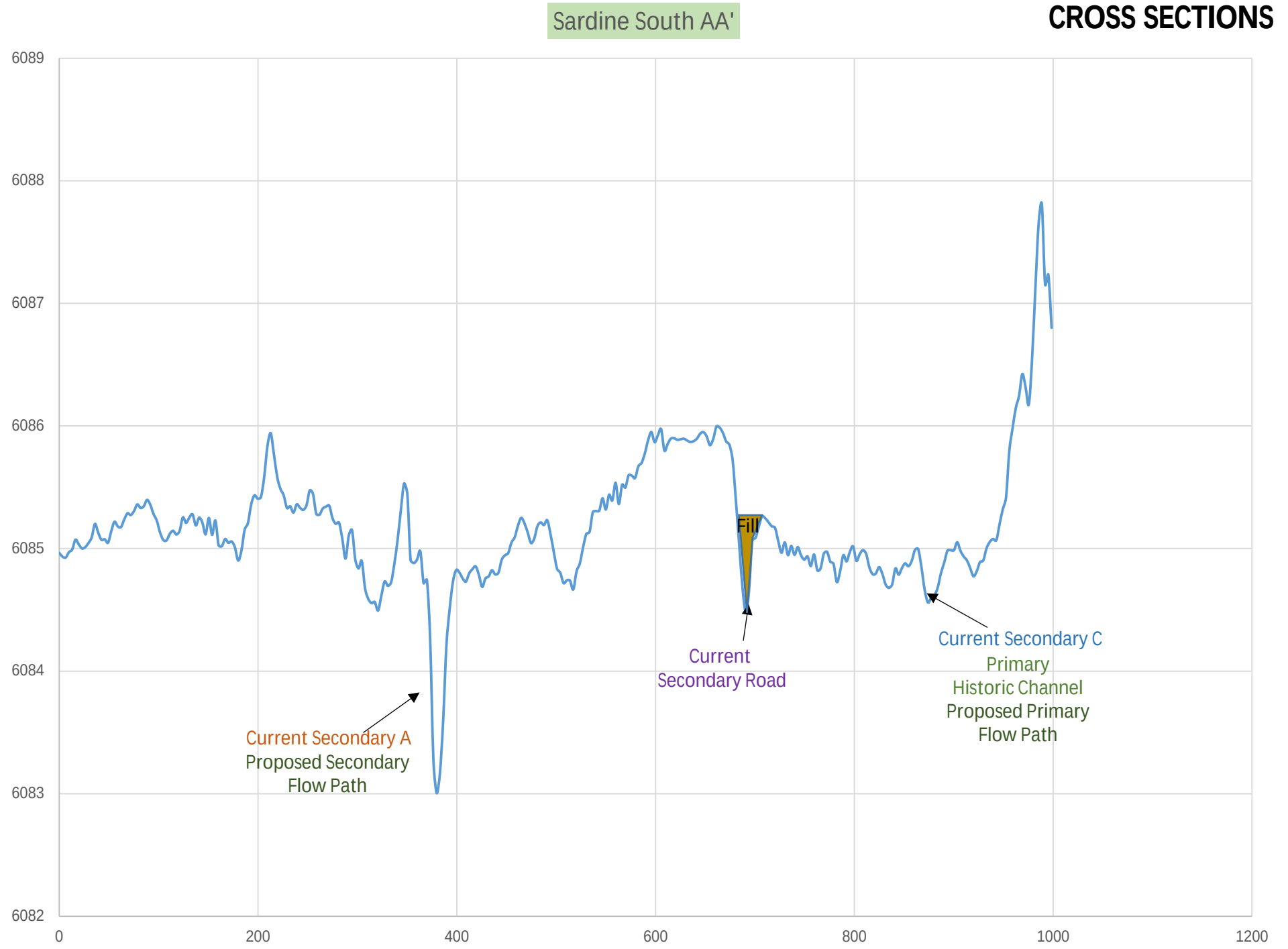
CROSS SECTIONS



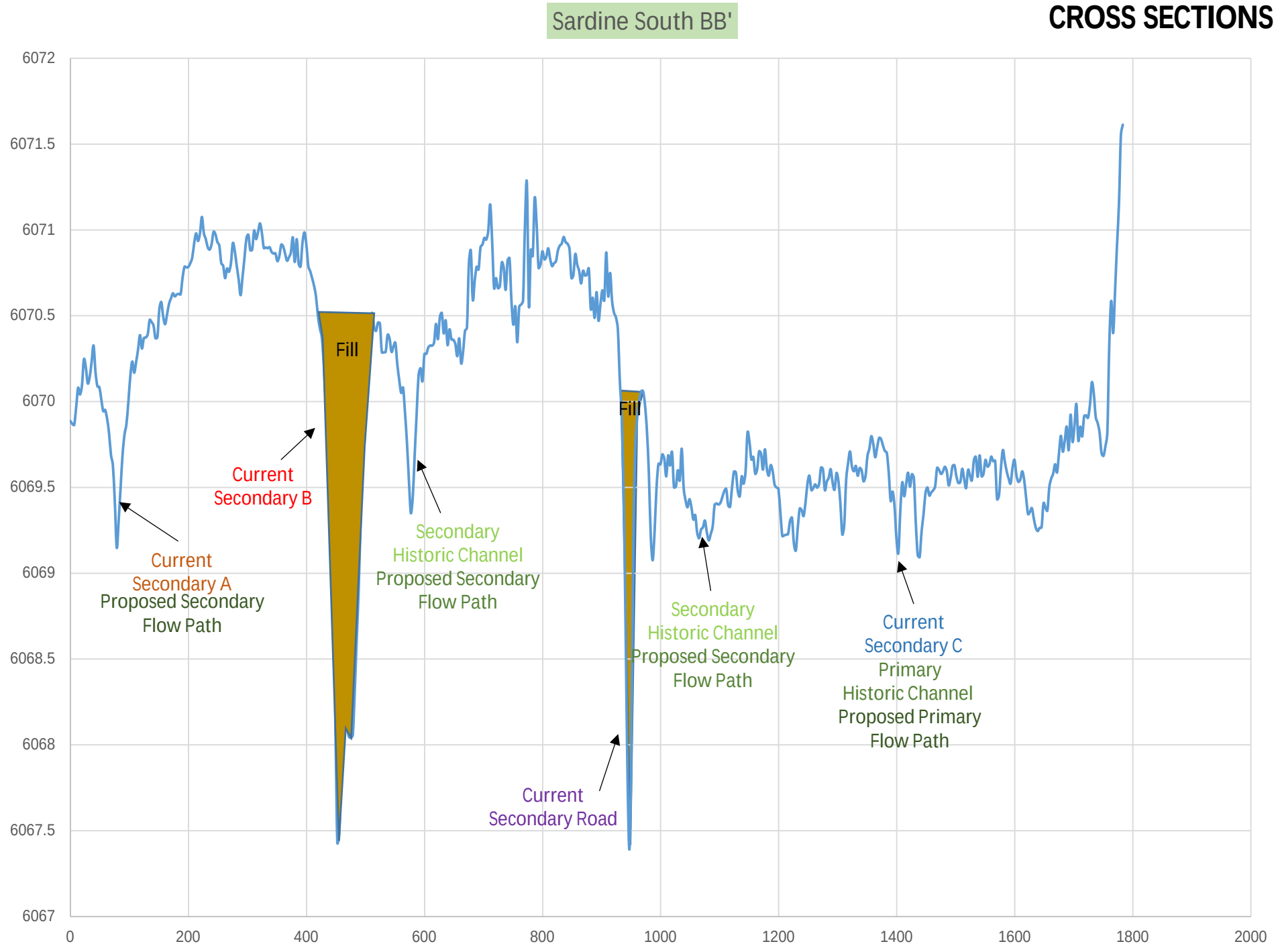
CROSS SECTIONS



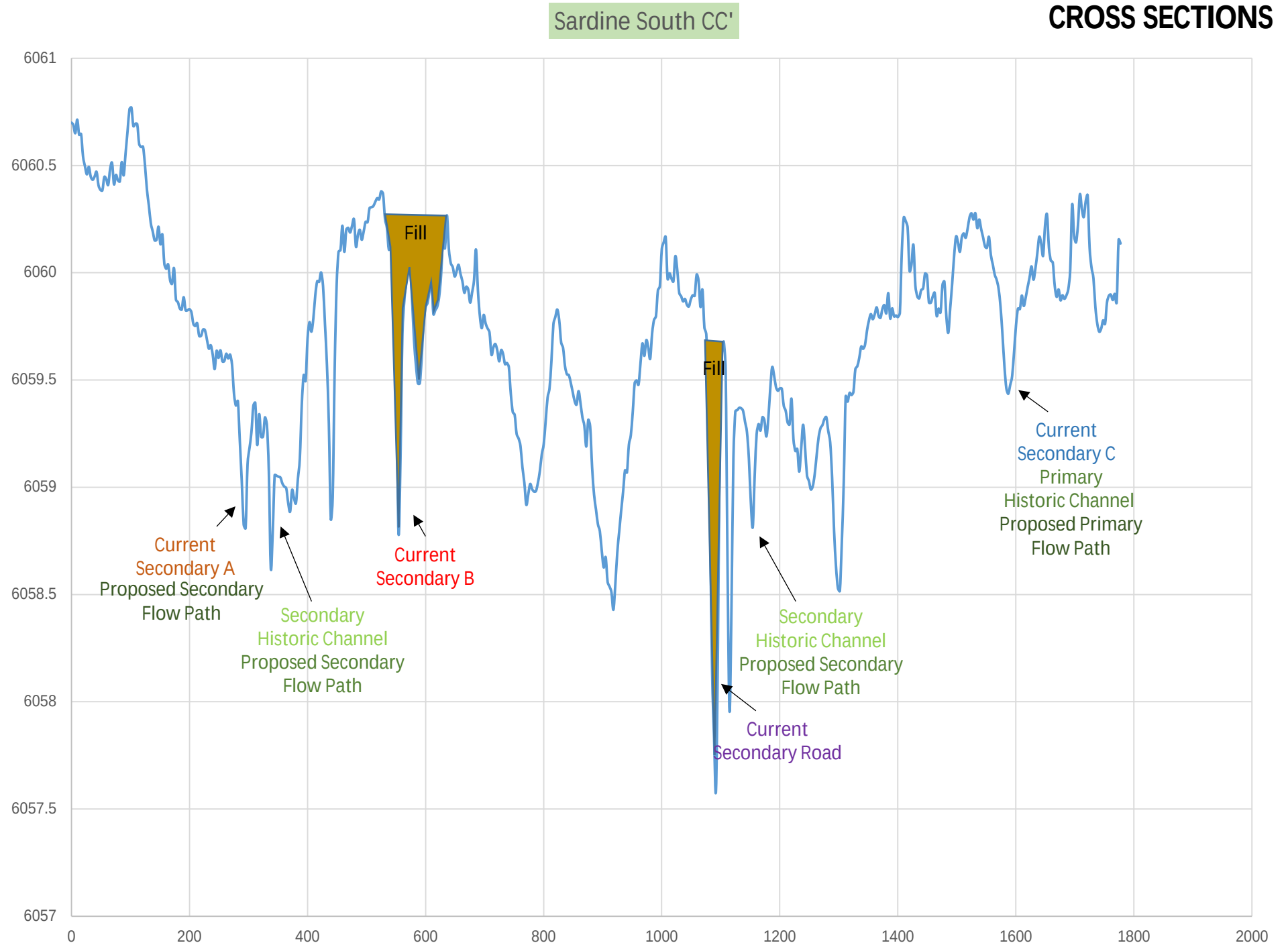
CROSS SECTIONS



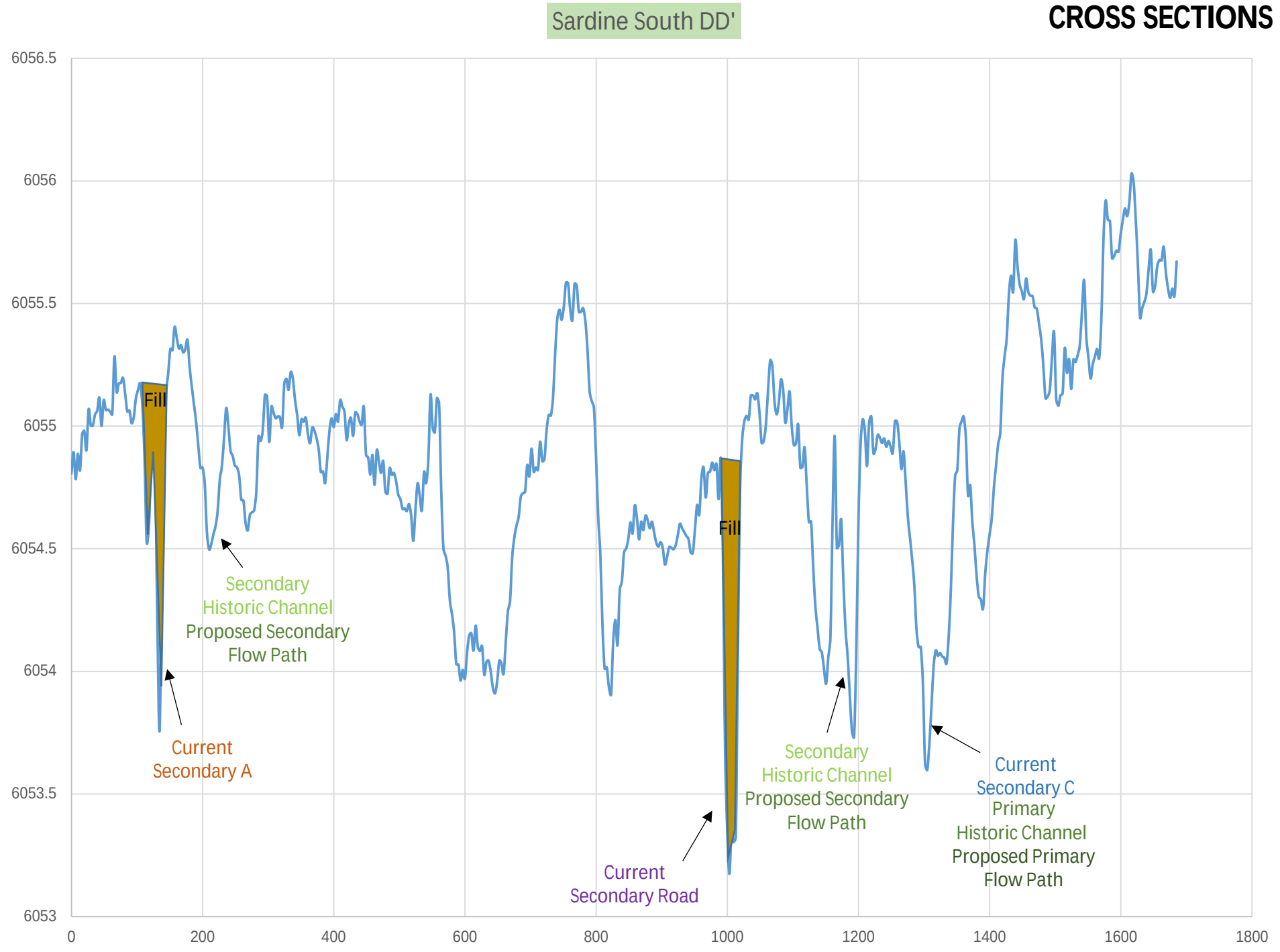
CROSS SECTIONS

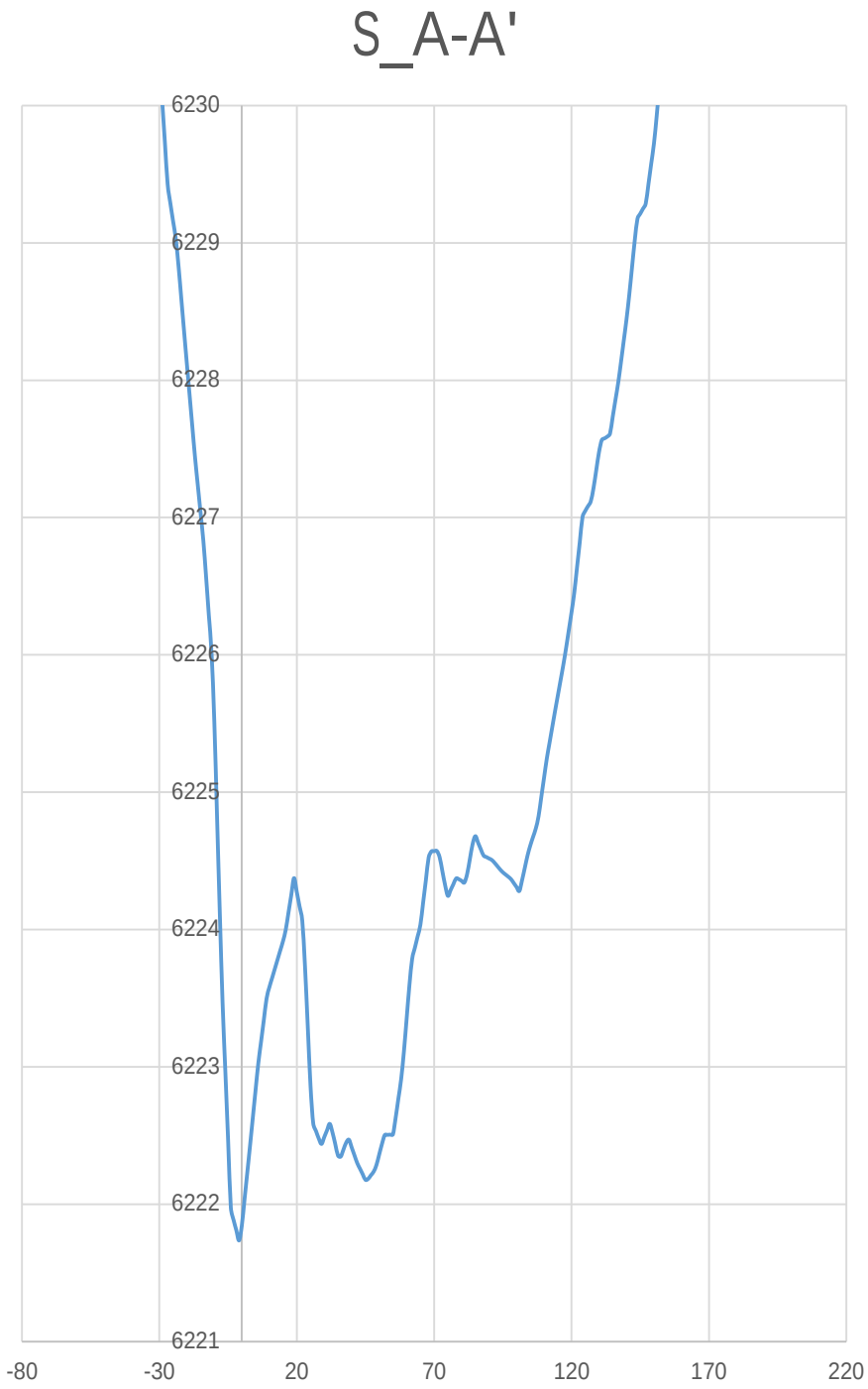


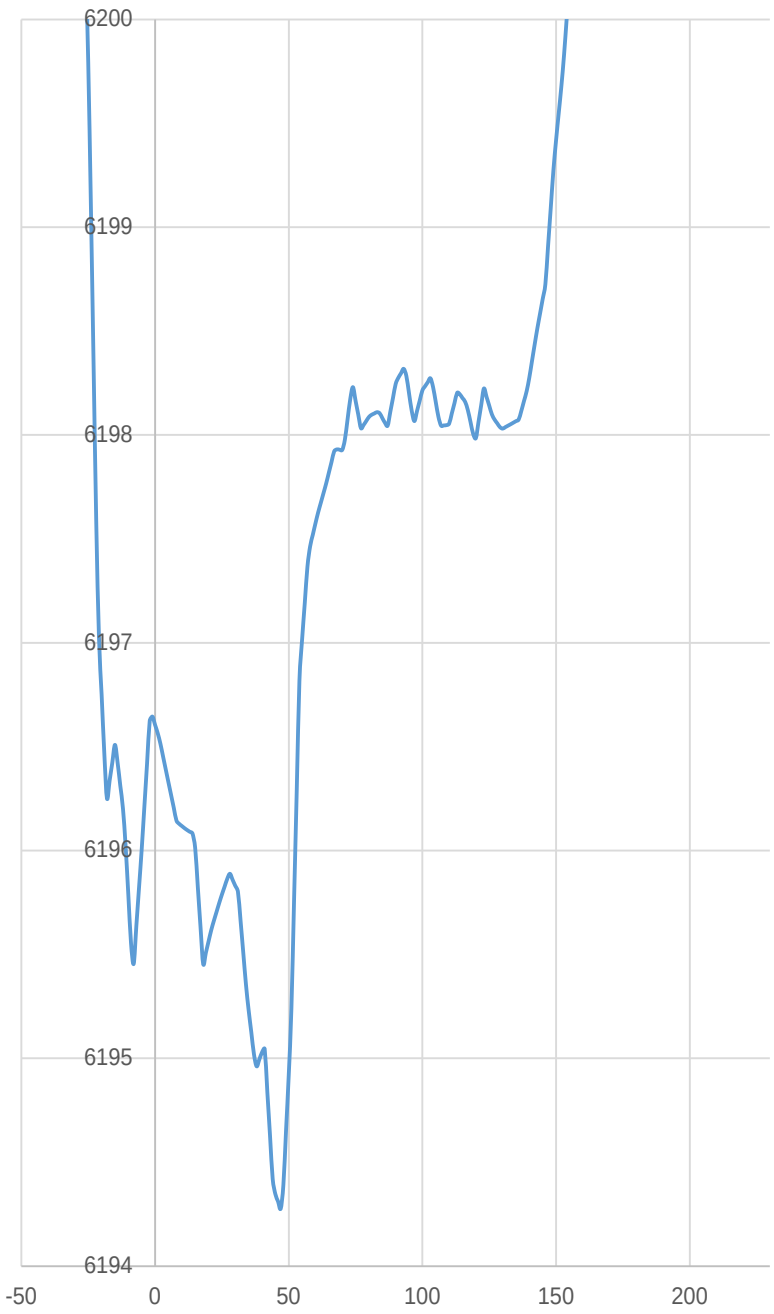
CROSS SECTIONS

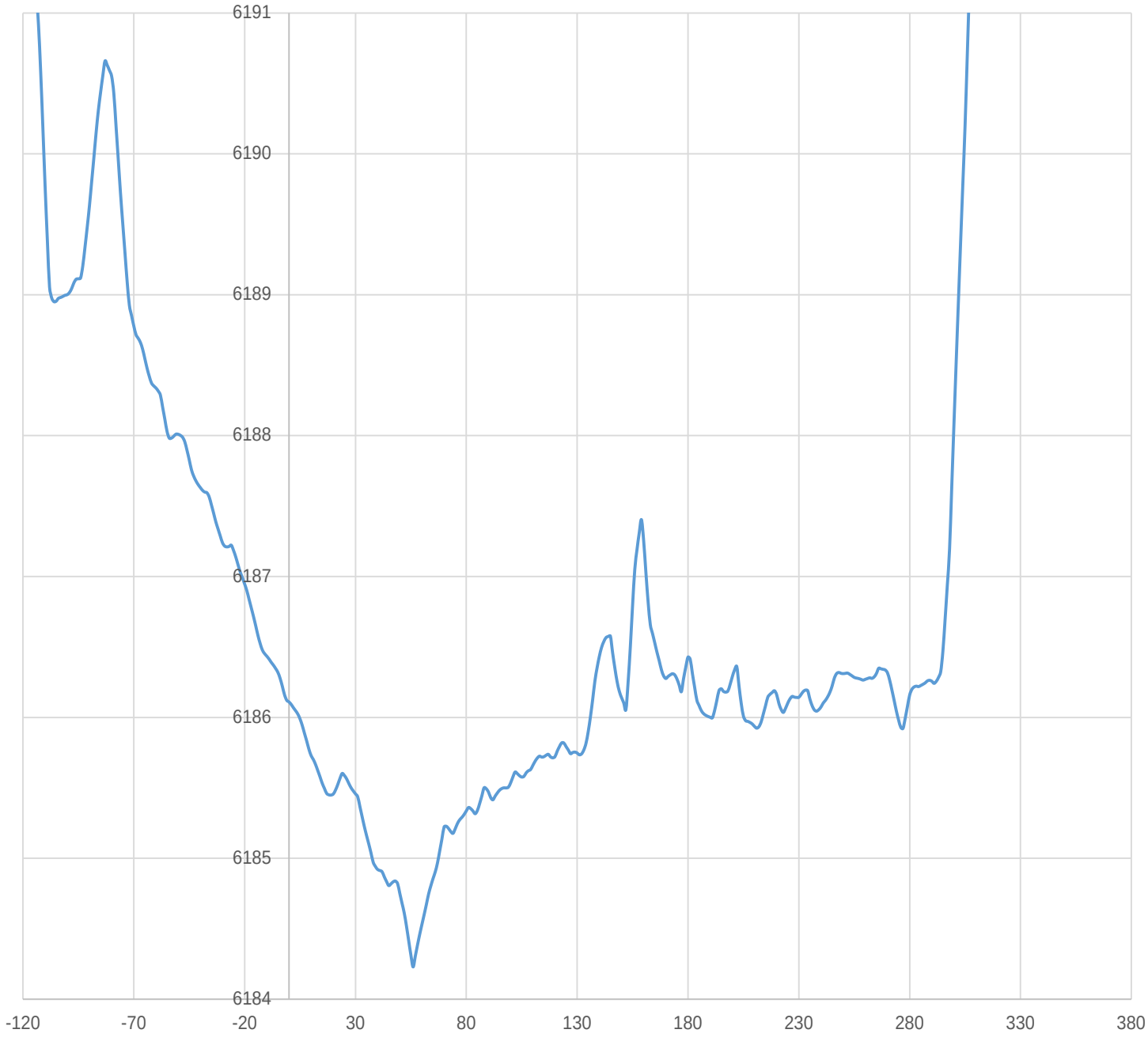


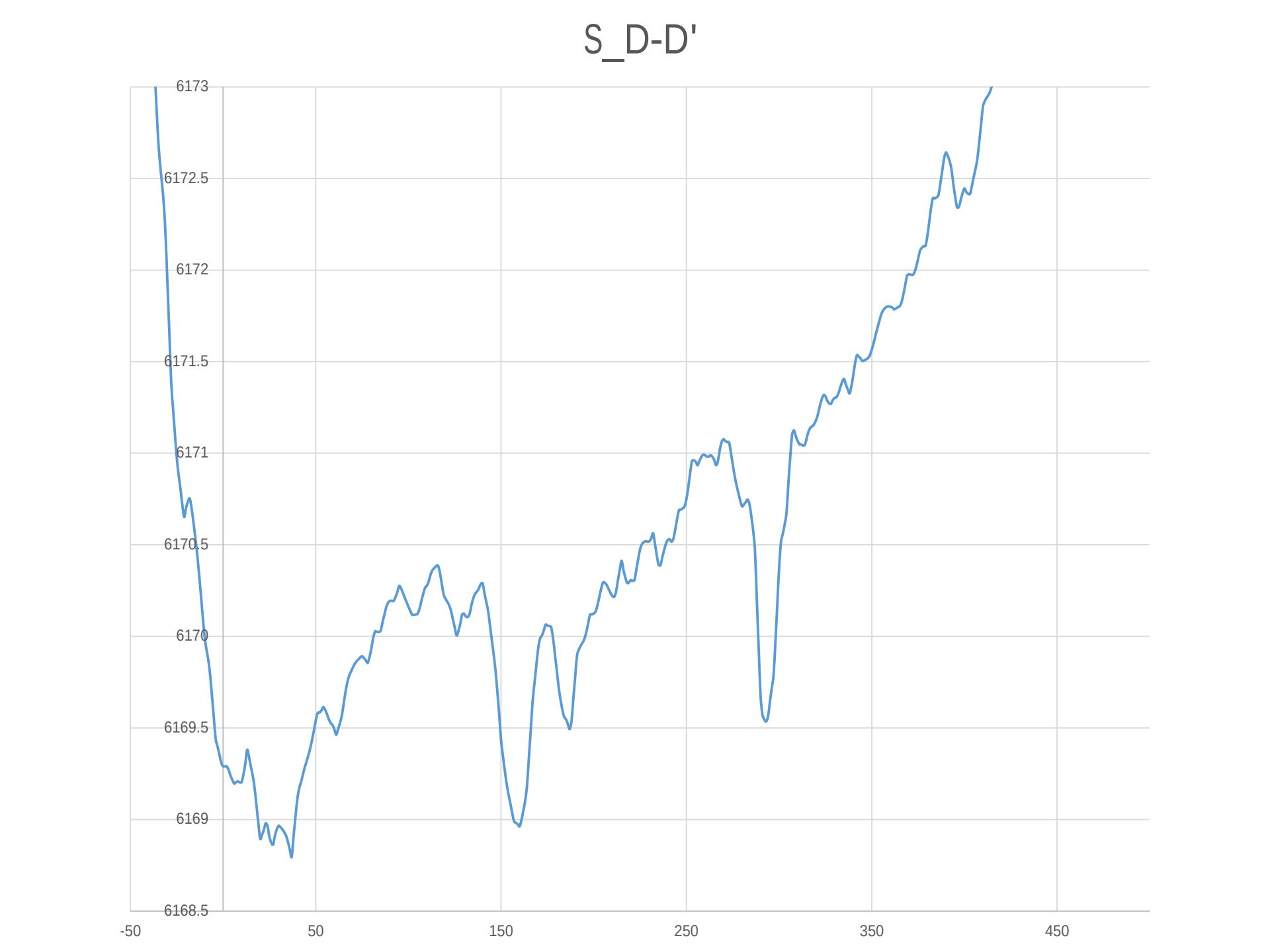
CROSS SECTIONS

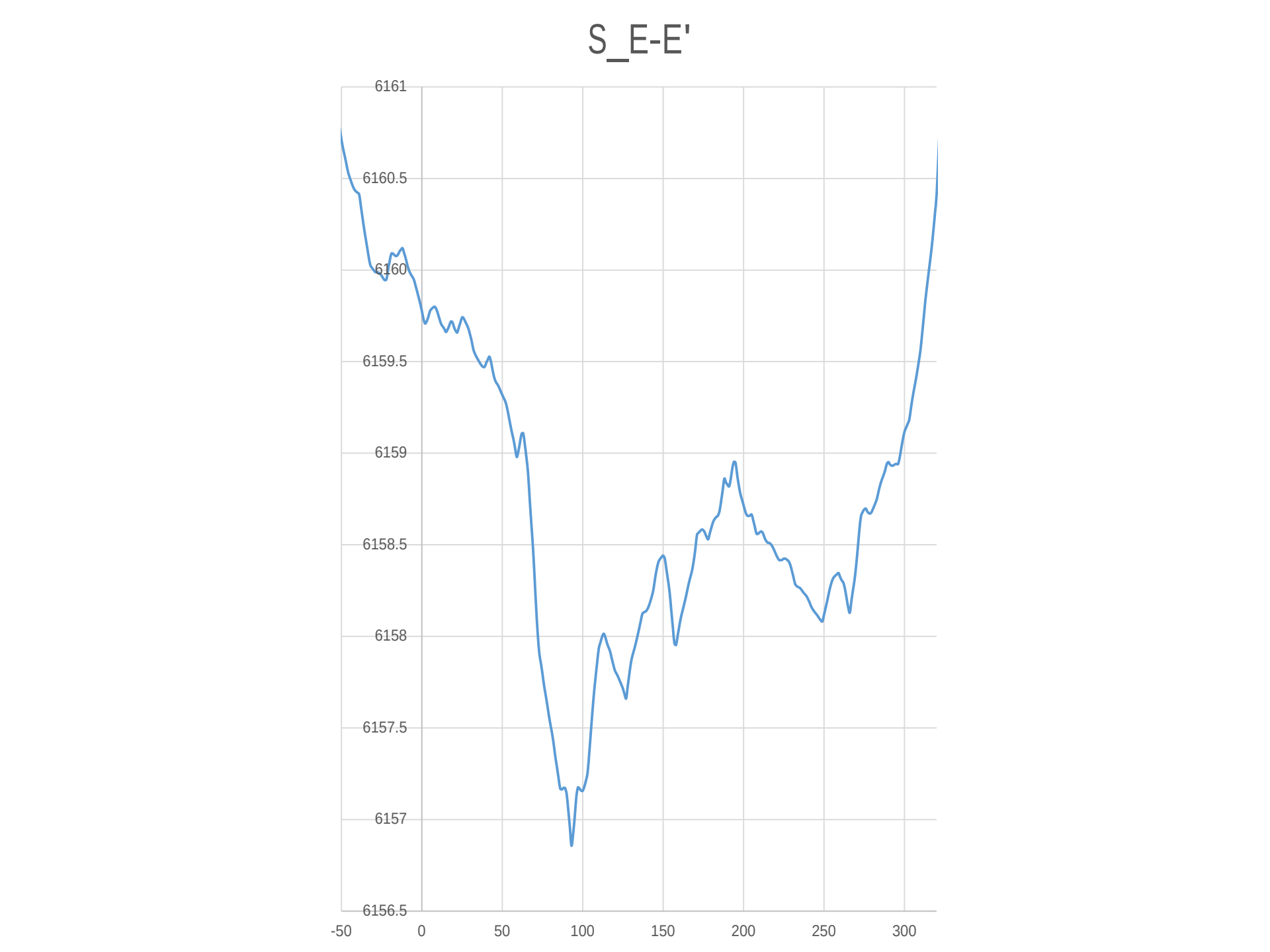


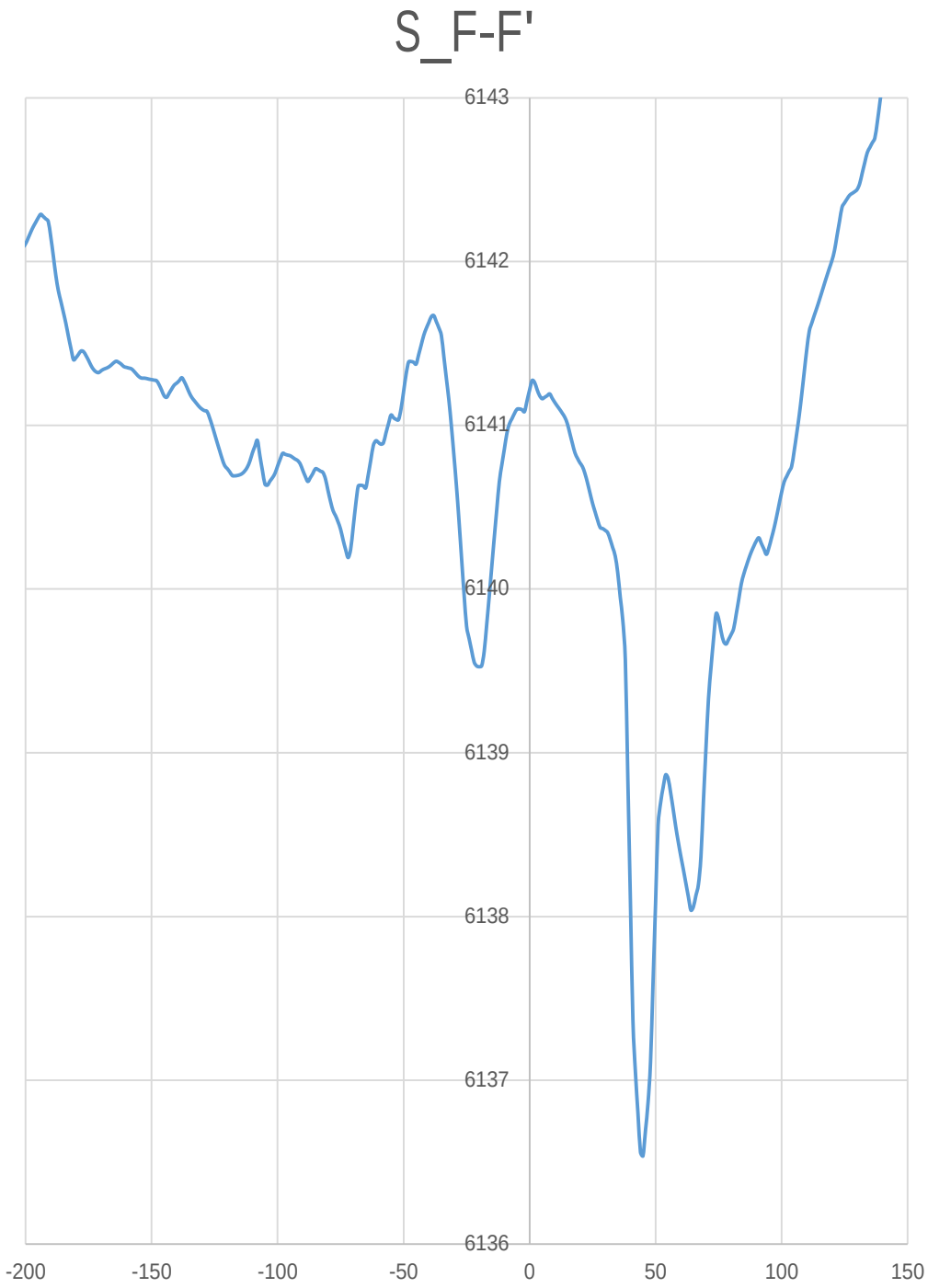

S_A-A'
6230
6229
6228
6227
6226
6225
6224
6223
6222
6221
-80
-30
20
70
120
170
220

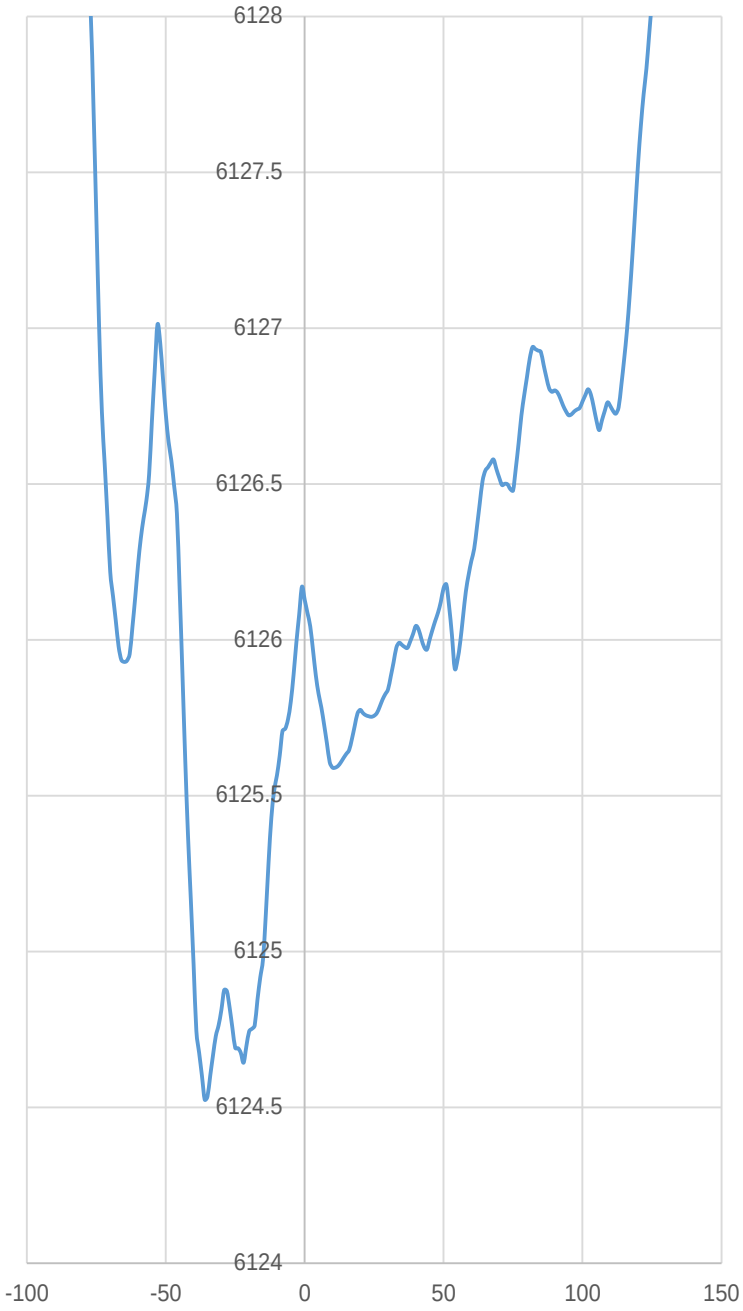

S_B-B'
6200
6199
6198
6197
6196
6195
6194
-50
0
50
100
150
200

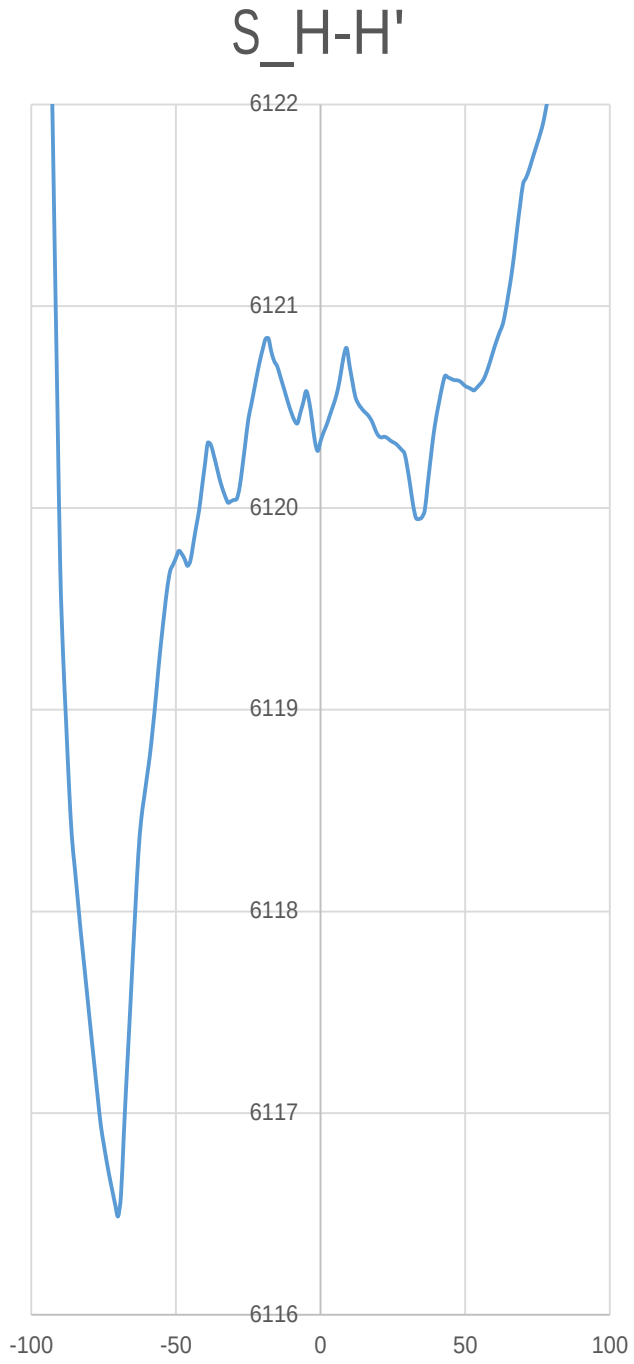

S_C-C'
6191
6190
6189
6188
6187
6186
6185
6184
-120
-70
-20
30
80
130
180
230
280
330
380

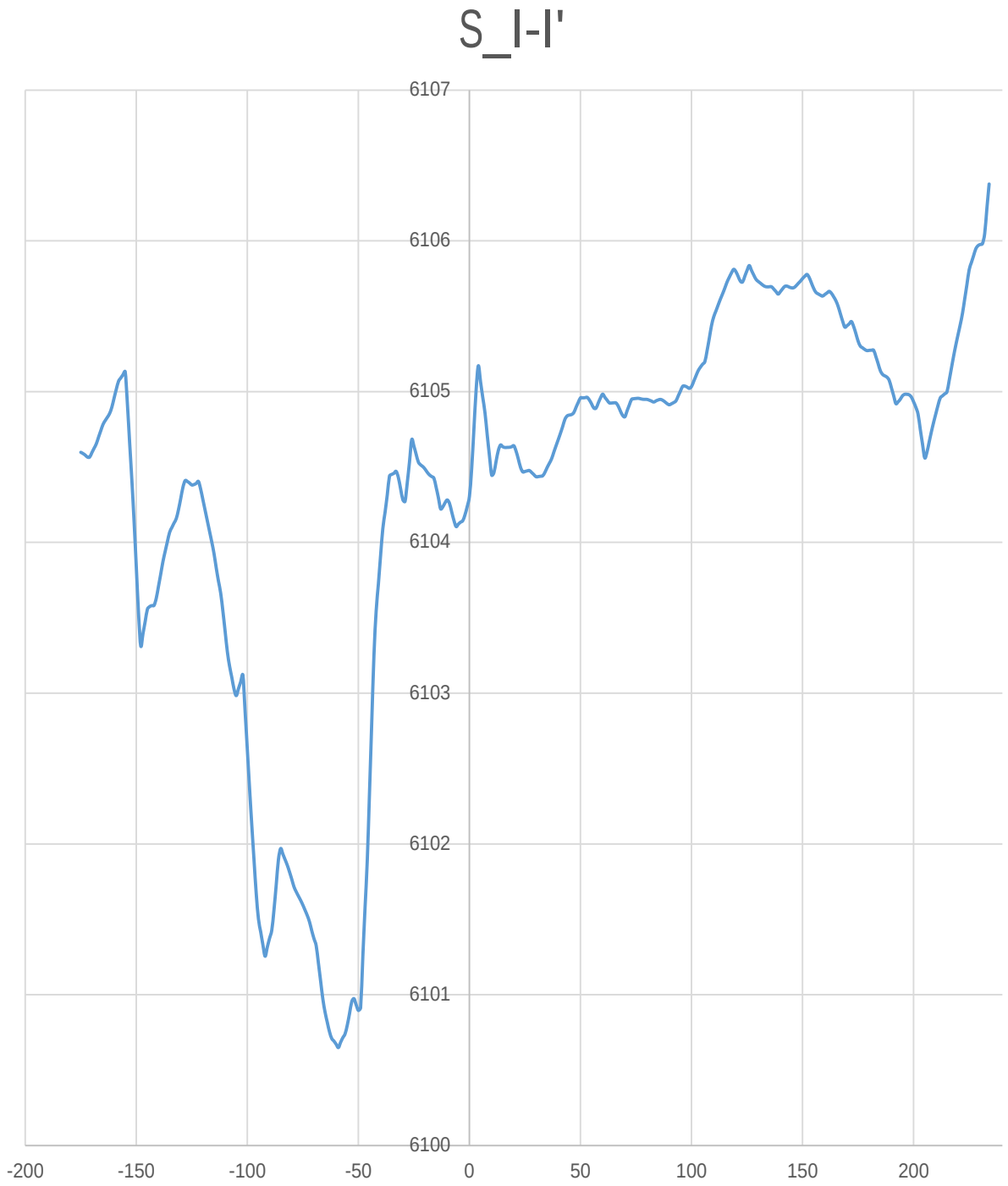

S_D-D'
6173
6172.5
6172
6171.5
6171
6170.5
6170
6169.5
6169
6168.5
-50
50
150
250
350
450


S_E-E'
6161
6160.5
6160
6159.5
6159
6158.5
6158
6157.5
6157
6156.5
-50
0
50
100
150
200
250
300

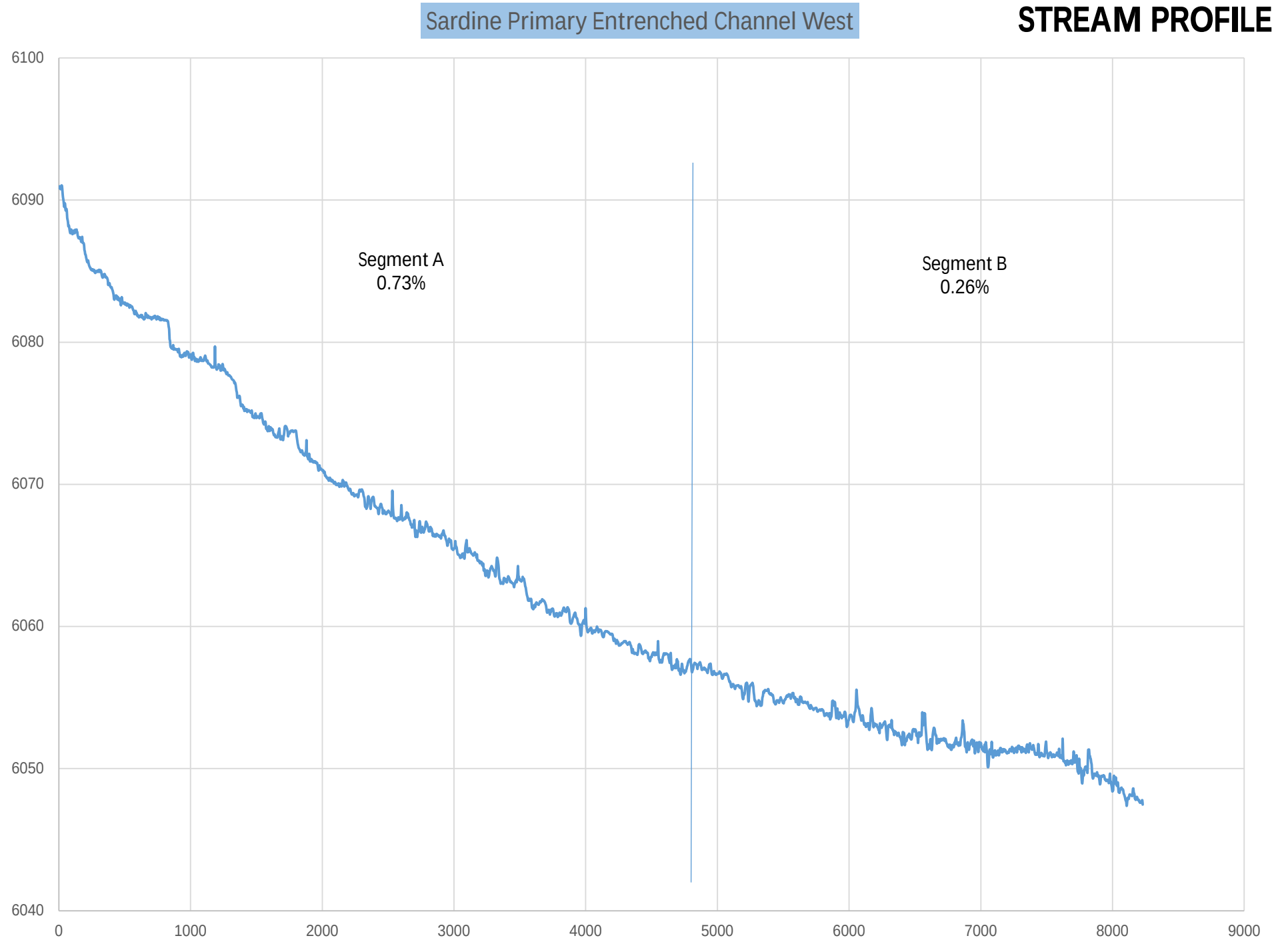

S_F-F'
6143
6142
6141
6140
6139
6138
6137
6136
-200
-150
-100
-50
0
50
100
150


S_G-G'
6128
6127.5
6127
6126.5
6126
6125.5
6125
6124.5
6124
-100
-50
0
50
100
150

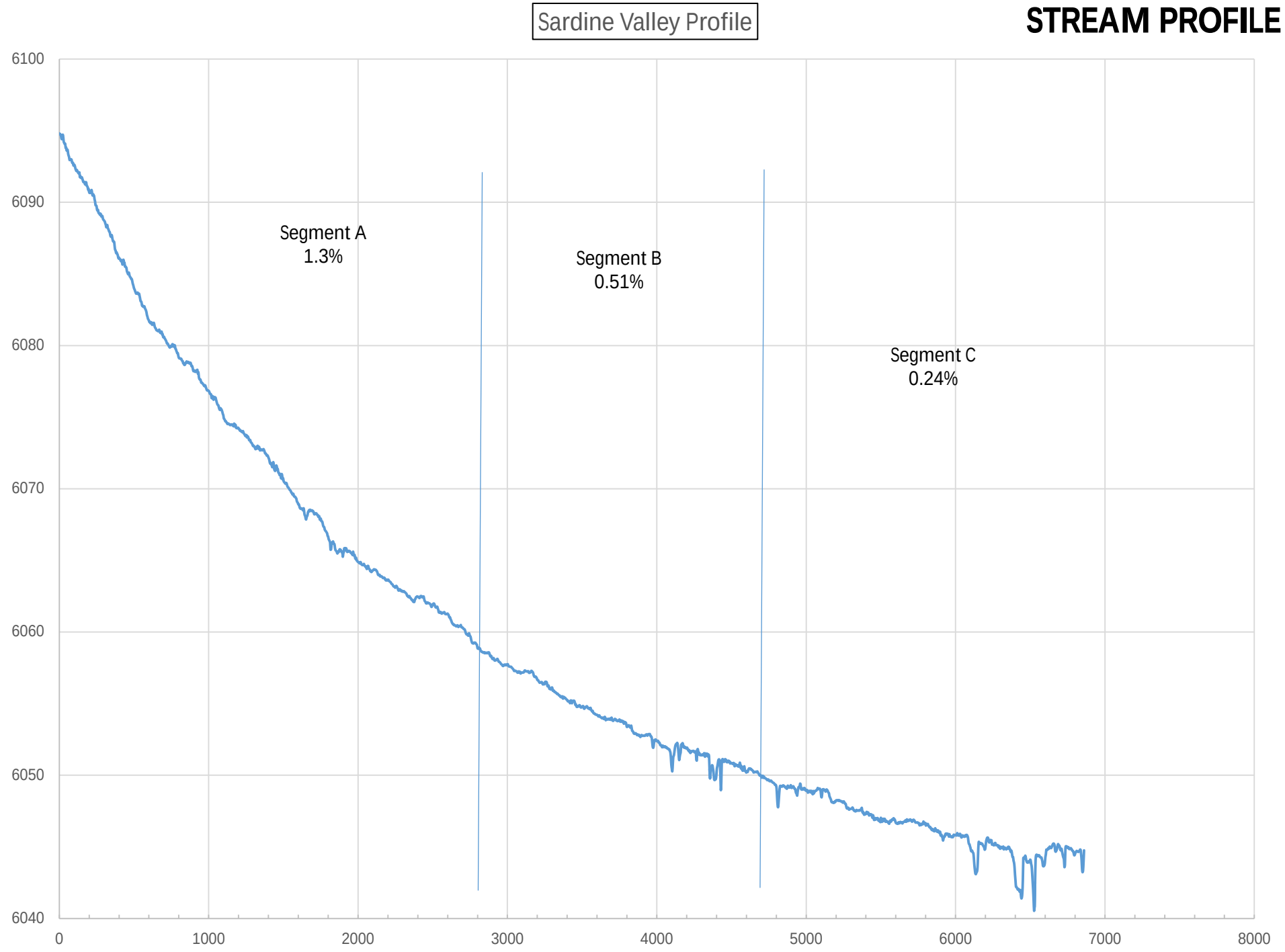

S_H-H'
6122
6121
6120
6119
6118
6117
6116
-100
-50
0
50
100


S_I-I'
6107
6106
6105
6104
6103
6102
6101
6100
-200
-150
-100
-50
0
50
100
150
200

STREAM PROFILE

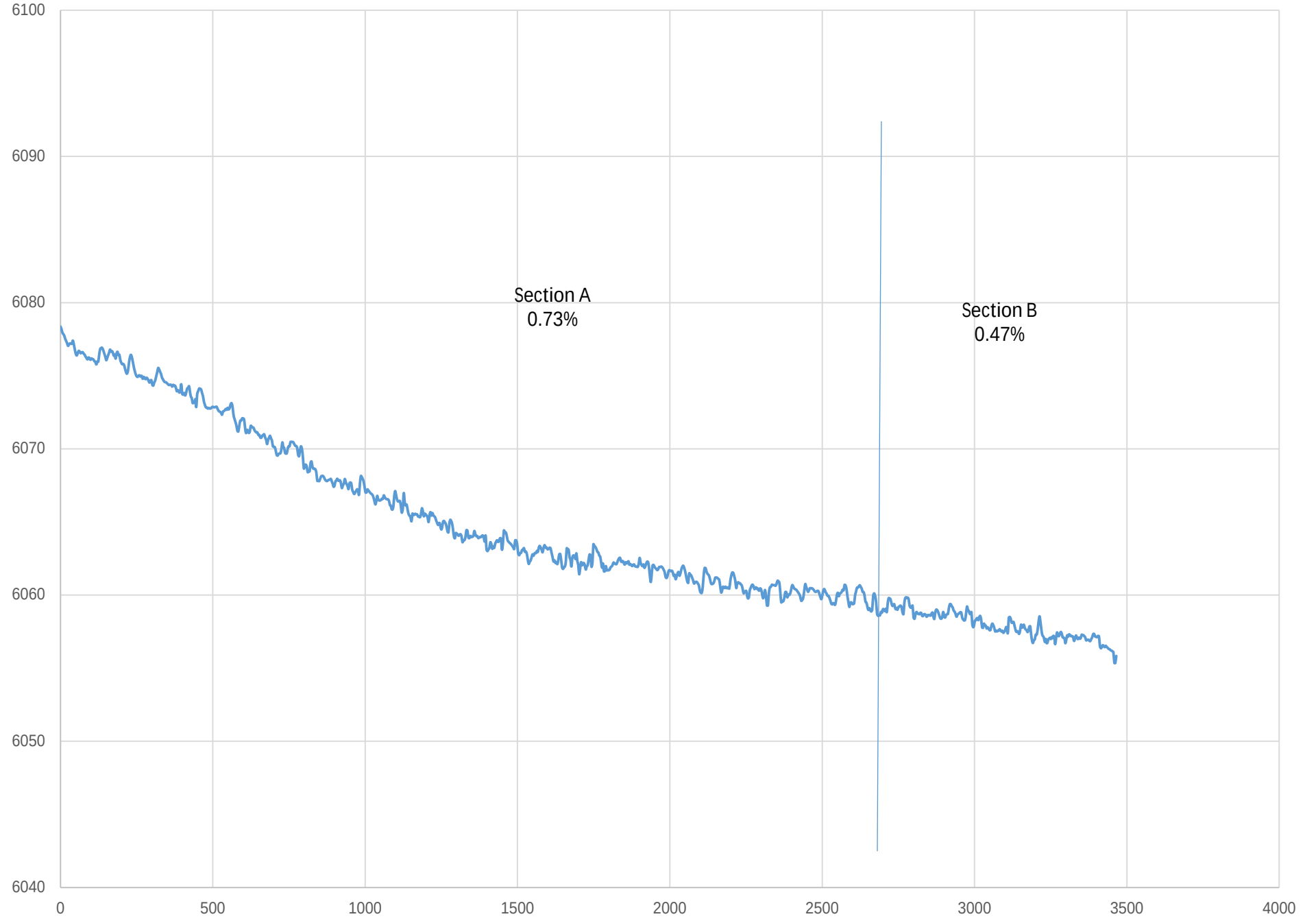


STREAM PROFILE



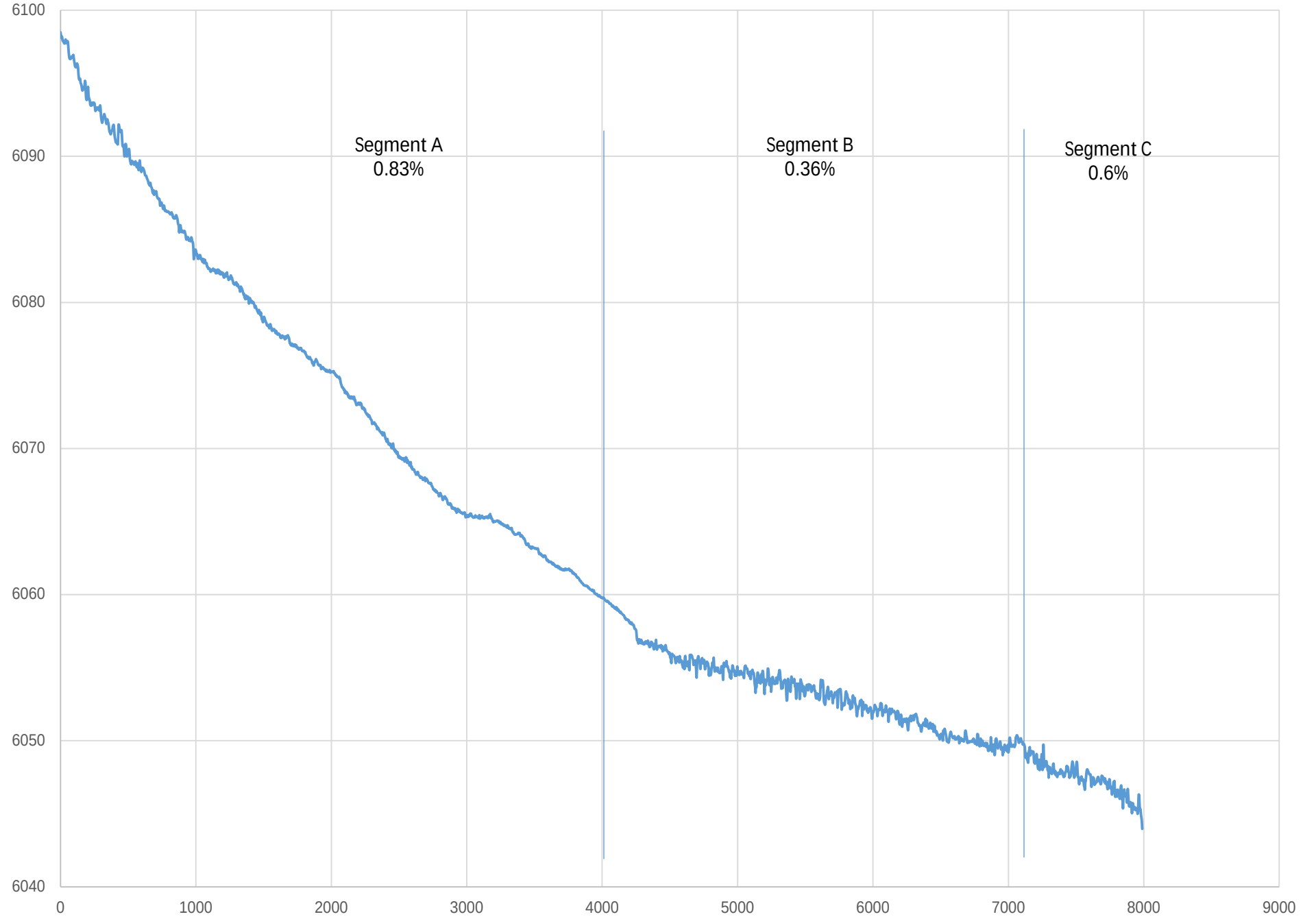
Sardine Secondary B Channel

STREAM PROFILE

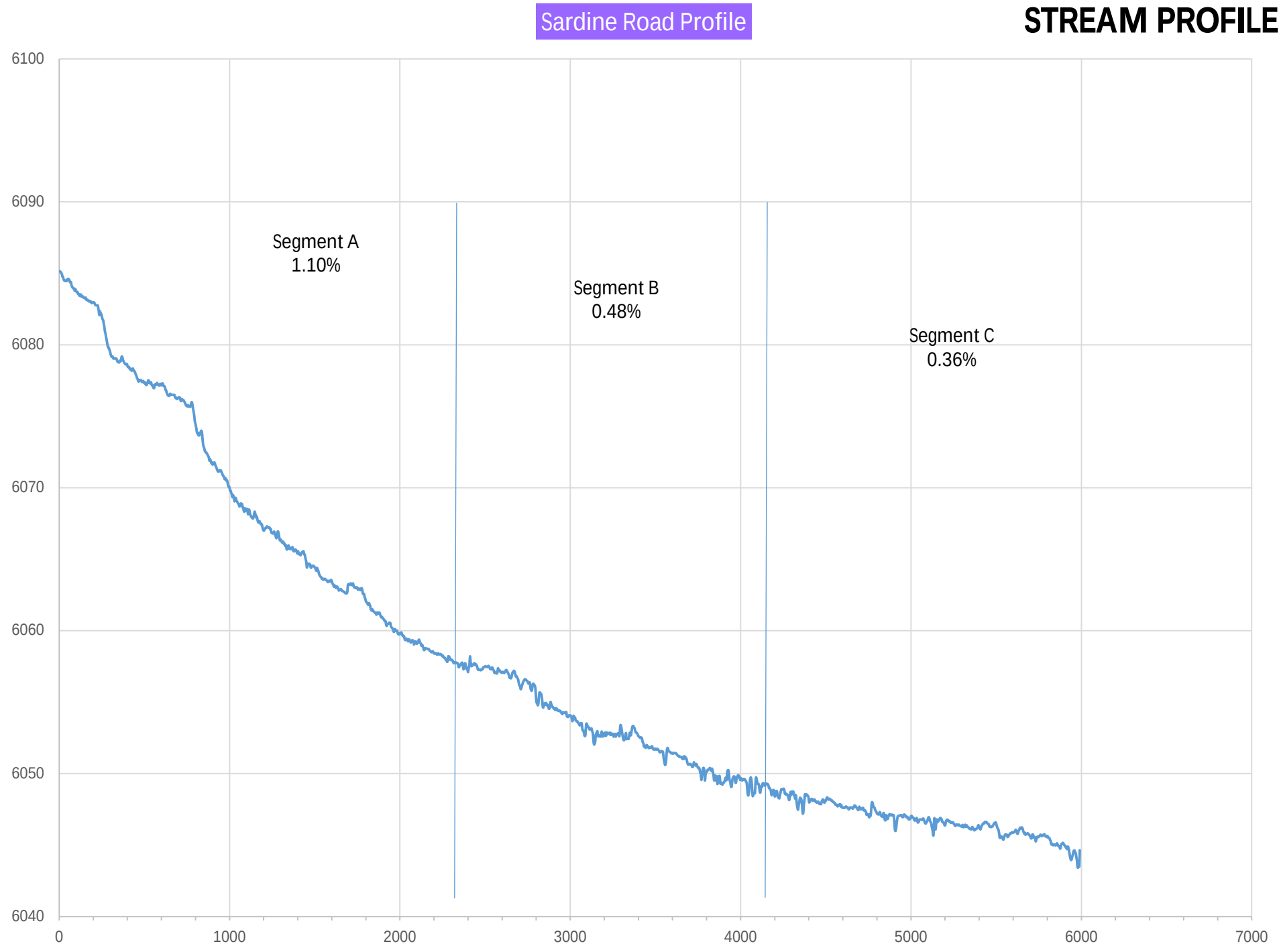


Sardine Secondary A Channel

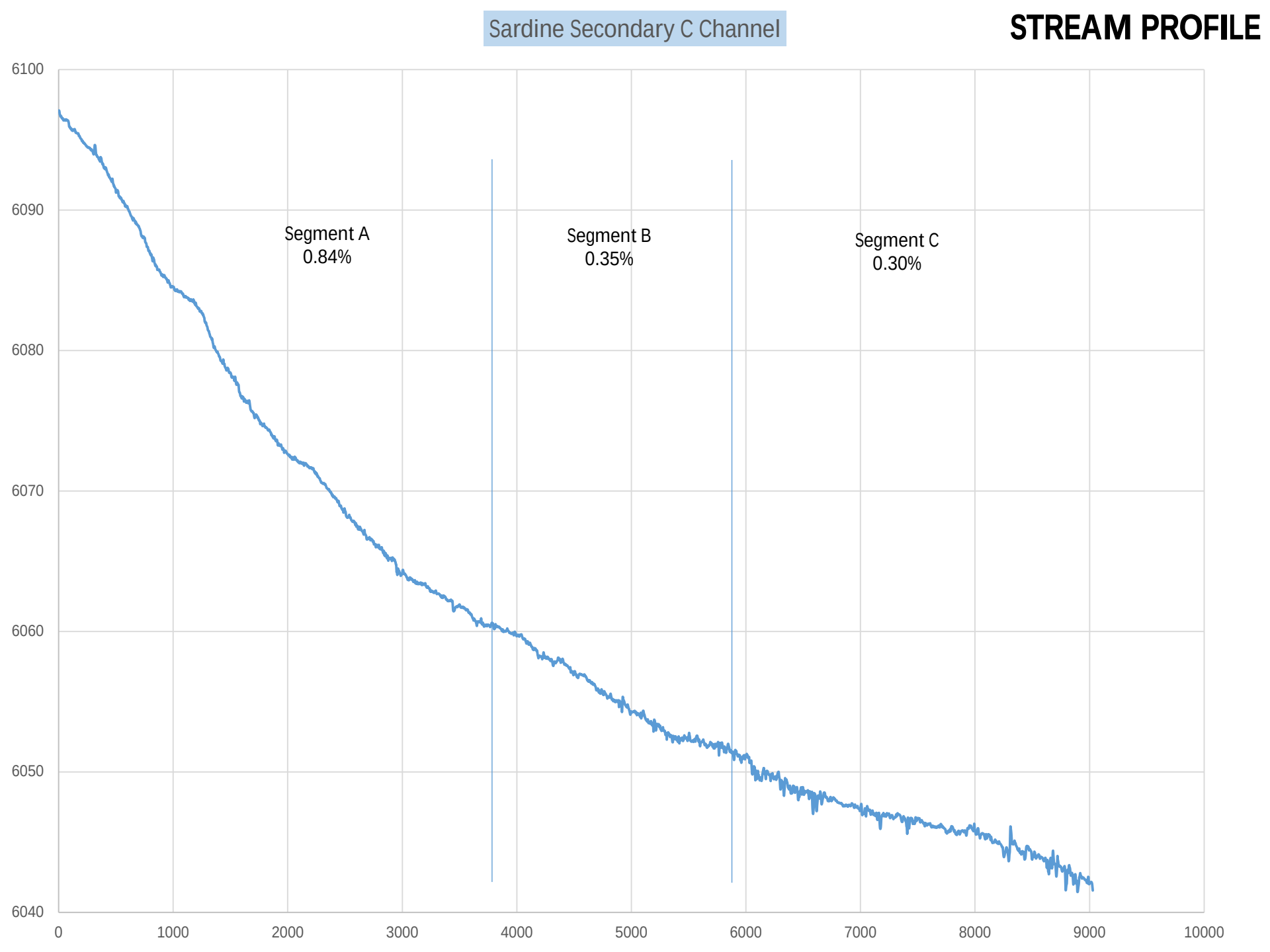
STREAM PROFILE



STREAM PROFILE



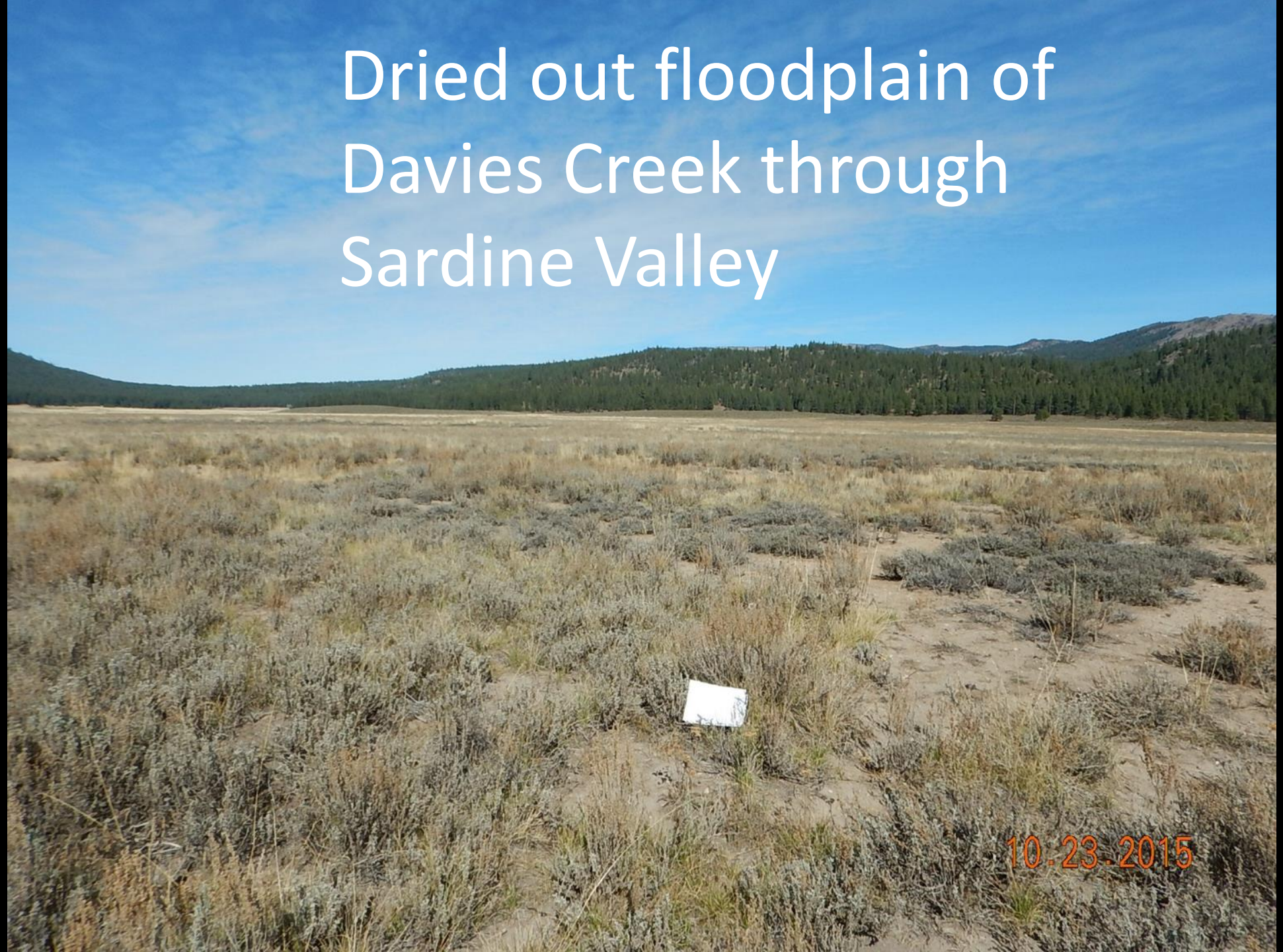
STREAM PROFILE

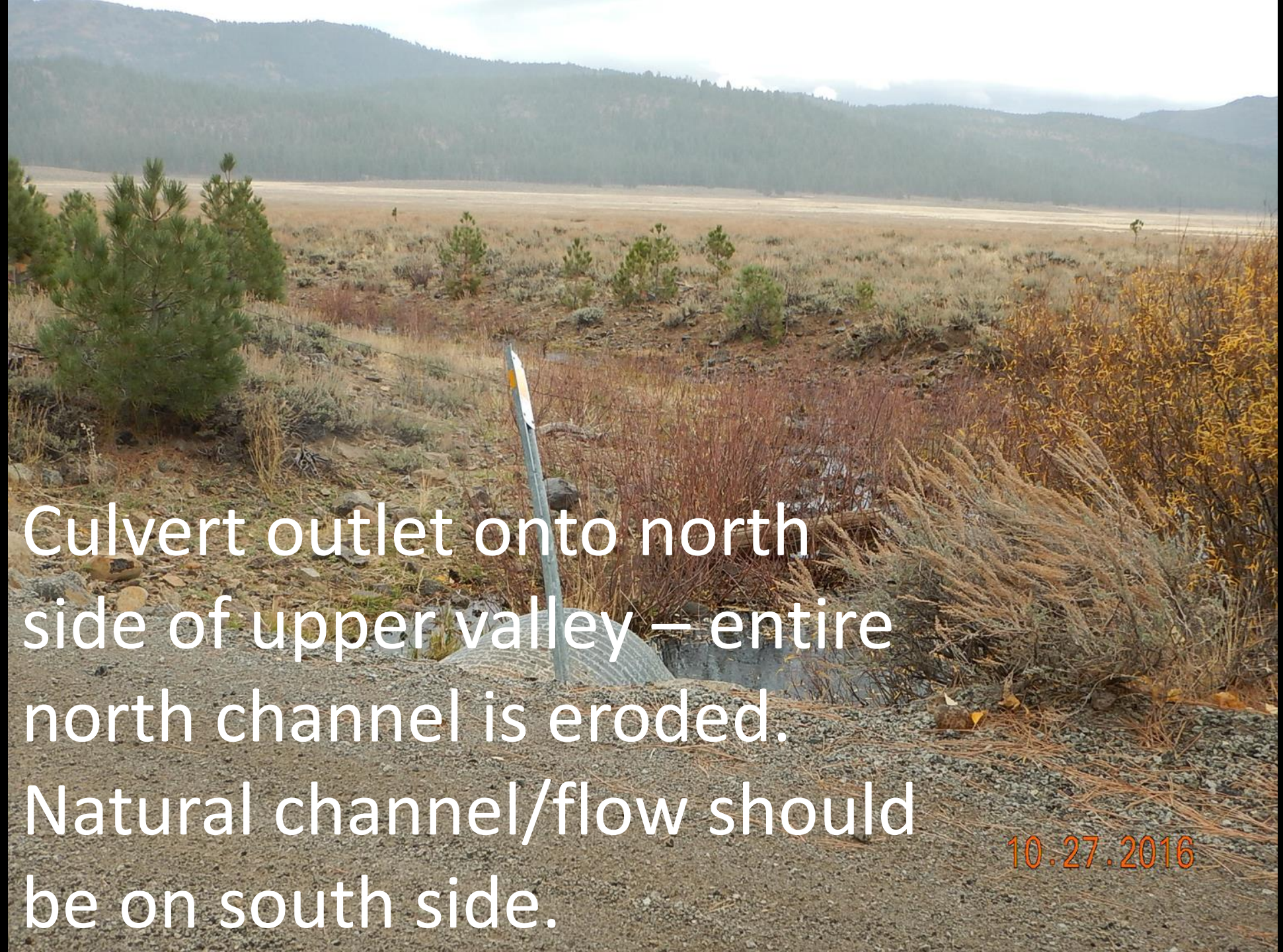


Sardine Valley Restoration

current condition photos

Sardine Valley


Dried out floodplain of Davies Creek through Sardine Valley
10.23.2015

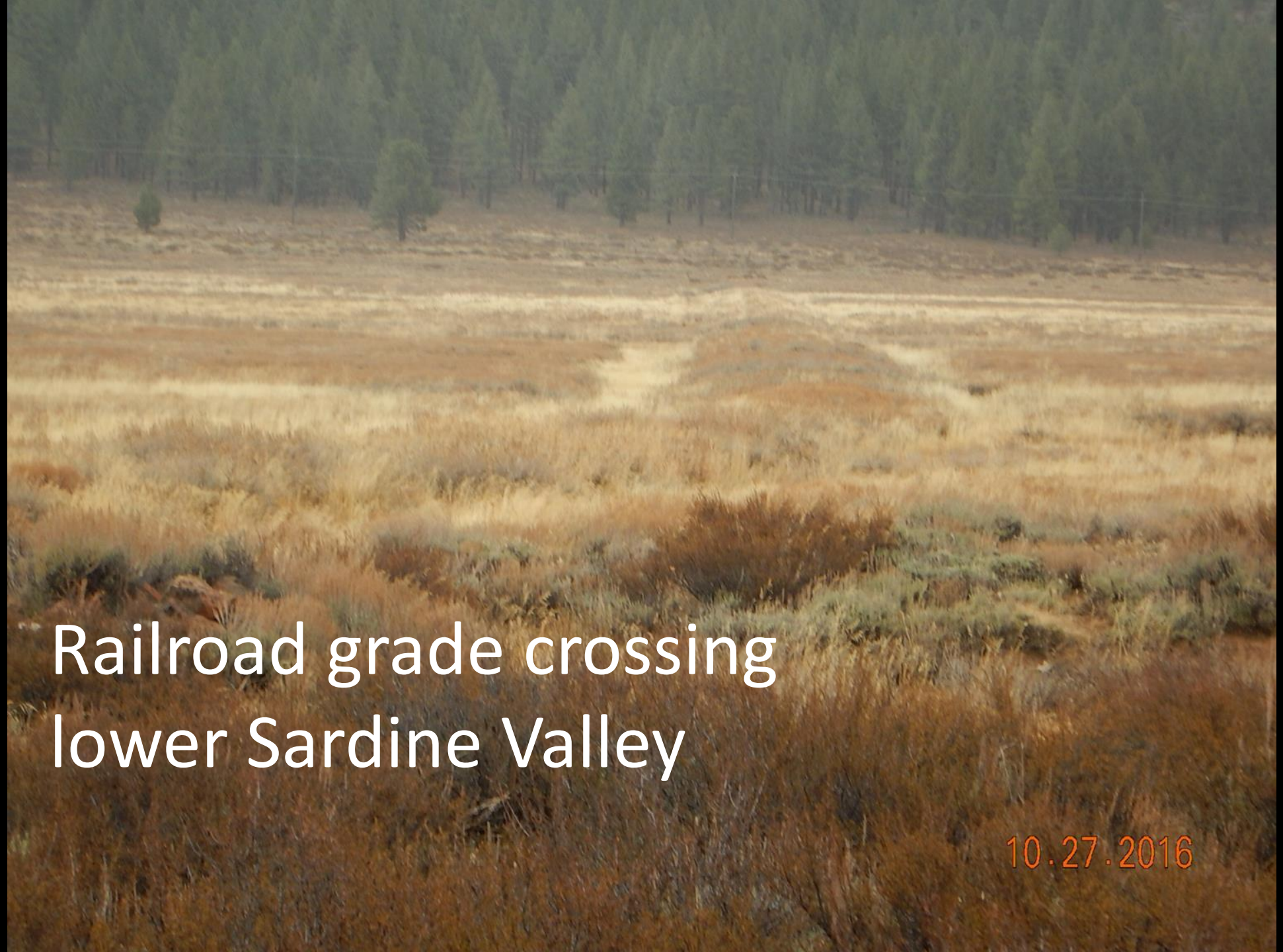


Culvert outlet onto north side of upper valley – entire north channel is eroded. Natural channel/flow should be on south side.

Eroded north side channel

Old road down valley that has captured flow from south side of valley
10.27.2016

Old road down valley that has captured flow from south side of valley
10.23.2015


Railroad grade crossing
lower Sardine Valley
10.27.2016

Railroad grade crossing
lower Sardine Valley
10.23.2015

Degraded, incised channel – mid valley

Degraded, incised channel – mid valley

Degraded, incised channel – mid valley

Degraded, incised channel mid valley with remnant channel going left
10.23.2015

Degraded, incised channel – lower valley

Degraded, incised channel – lower valley