



Agenda | Feb 18, 2021 4:00 PM

ZOOM MEETING

Please email healthyivers@pitkincounty.com for Zoom Access

Time	Item
4:00 PM	• Board Comment • Public Comment • Additions /Deletions to Agenda
4:10 PM	• Approval of Minutes Jan 21, 2021 and Feb 2, 2021
4:15 PM	• Update on Robinson Diversion Project Plan – Quinn Donnelly and Jason Carey - River Restoration
4:30 PM	• Monitoring and Adaptive Management Plan Annual Review RICD – Quinn Donnelly and Jason Carey River Restoration
4:45 PM	• Focus Priorities and Projects – Chairman Lemons
5:00 PM	• Open Discussion
5:15 PM	• Executive Session CRS 24-6-402(4)(b) Crystal River Augmentation
6:00 PM	• Adjourn

Upcoming 2021 Regular Meetings

March 18, April 15, May 20, June 17, July 15, Aug 19, Sept 16, Oct 21, Nov 18, Dec 16

Agenda items are subject to change – Times are approximate and are also subject to change

HEALTHY RIVERS AND STREAMS CITIZENS ADVISORY BOARD
Regular Meeting
January 21, 2021
Via zoom

River Board members present: Bill Jochems, Lisa Tasker, Andre Wille, Chris Lemons, Wendy Huber, Chris Wheatley, Chuck Ogilby

River Board members absent: None

Others present: Laura Makar, Lisa MacDonald, Katie Todt, Heather Sackett, Matt Annabel, Laurine Lassalle

Board Comment – Chairman Wille captured some outstanding footage of the ice jam release on the Roaring Fork River. Footage was shared on social media and via email to the Board, BOCC and other interested parties. A reminder to be aware of releases and other dangerous situations when on or near water this time of year.

Ms. Tasker is representing us by participating in the City of Aspen's Water Resource Plan stakeholder group and its integrated resource plan. She will come back to the Board with details.

Mr. Lemons expressed concerns for more ice buildup in the canyon and concerns for our contractor working on the Robinson Diversion Modification Project. Anyone that sees an imminent threat will contact staff immediately.

Public Comment – None

Additions/Deletions to the Agenda -

Chairman Wille added Introduction of new County Commissioner Francie Jacober to the agenda.

Approval of Minutes Dec 10 and Dec 17, 2020

Ms. Tasker moved to approve the minutes from Dec 10 and Dec 17, 2020. Chairman Wille seconded the motion. The motion passed 7/0.

Introduction of new County Commissioner Francie Jacober

Ms. Jacober joined the meeting and introduced herself to the Board. Ms. Jacober shared her history in the valley and desire to serve as commissioner followed by questions and answers by the Board.

Appointment of Chair and Vice-Chair 2021

Mr. Jochems nominated Mr. Lemons as Chairman for 2021.

Chair Wille moved to appoint Mr. Lemons as Chairman, Ms. Huber seconded the motion. The motion passed 7/0.

Chairman Wille moved to appoint Mr. Jochems as Vice-Chair for 2021. Ms. Huber seconded the motion. The motion passed 7/0.

Mr. Wille ran the remainder of this meeting.

CSU Hay Production Irrigation Study – Richard Van Gytenbeek – Trout Unlimited

Ms. Tasker introduced Mr. Van Gytenbeek and gave a short introduction regarding the study.

Mr. Van Gytenbeek presented a conserved consumptive use power point and discussion ensued regarding the project near Kremmling and ways something similar could happen in our area.

Request to extend Mariaine Gonzalez Martinez Scholarship

Ms. Martinez sought an extension of scholarship fund due to online learning format at Mesa State University and lack of personal space at home to attend online classes.

Mr. Wheatley move to approve extension of funds for Ms. Martinez. Mr. Wille seconded the motion. The motion passed 7/0.

CRCD Advisory Committee

Ms. Tasker sought input on the formation of an advisory committee of a diverse group of environmentalist to work with the district on grant projects requests pursuant to the passing of its ballot question. Ms. Tasker, Mr. Jochems and Mr. Obilby will work on a draft request and bring it back to the Board at a future meeting.

Yule Creek Mine Clean Water Act Permit Application

Ms. Makar told the Board the US Army Corps would not hold public meetings concerning the mine application. She noted the Corps has asked the mine to submit a compensatory mitigation plan. The mine has not reached out to Pitkin County concerning any mitigation plan.

Mr. Wille moved to enter into executive session pursuant to CRS 24-6-402(4)(b) for the purpose of Yule Creek Mine Clean Water Act Permit Application discussion. Ms. Tasker seconded the motion. The motion passed 7/0.

Open Discussion

Mr. Jochems asked Ms. Makar if she could provide information on the Rio Blanco Water Conservancy District conditional water right to build a dam and reservoir between Rangely and Meeker. Ms. Makar will come back to the Board to discuss at a future meeting.

Mr. Wille moved to adjourn the meeting. Mr. Wheatley seconded the motion. The motion passed 7/0.

The Board adjourned at approximately 6:20 pm.

Approved:

Attest:

Chris Lemons, Chair

Lisa MacDonald

Laura Makar, Assistant County Attorney

The above signed attorney, representing the Board of County Commissioners and being present at the Executive Session, attests that the subject of the unrecorded portions of the session constituted confidential attorney-client communication.

HEALTHY RIVERS AND STREAMS CITIZENS ADVISORY BOARD
Meeting Minutes Joint Meeting with Pitkin County Commissioners
February 2, 2021
Via zoom

River Board members present: Bill Jochems, Lisa Tasker, Andre Wille, Chris Lemons, Wendy Huber, Chris Wheatley, Chuck Ogilby

River Board members absent:

Others present: BOCC, John Ely, Laura Makar

Chairman Lemons moved to enter into executive session pursuant to CRS 24-6-402(4)(b) for the purpose of Wild and Scenic Designation of the Crystal River discussion.
Ms. Tasker seconded the motion. The motion passed 7/0.

Approved:

Attest:

Chris Lemons, Chair

Lisa MacDonald

John Ely, County Attorney

The above signed attorney, representing the Board of County Commissioners and being present at the Executive Session, attests that the subject of the unrecorded portions of the session constituted confidential attorney-client communication.

AGENDA ITEM SUMMARY

February 18, 2021

TO: Healthy Rivers Board

FROM: Lisa MacDonald

SUBJECT: Annual Adaptive and Monitoring Management Plan Report - RICD

Information:

The Healthy Rivers Whitewater Park in-channel structures were constructed 2016/2017 with modifications occurring in 2018 and 2020. Pursuant to conditions in our US Army Corps of Engineers (USACE) permit, the park is to be monitored over a 5 year period and reports submitted annually to the USACE and Colorado Parks and Wildlife. The engineering firm of RiverRestoration.org (RRO) provides this service. Monitoring includes detailed hydrographic surveys, hydraulic quantifications through numerical modeling and tracking of trends over time.

Quinn Donnelly and Jason Carey of RRO will present and report their 2020 findings to the Board.

Requested Board Action: None - Informational only

Attachments: Annual Report

HEALTHY RIVERS WHITEWATER PARK PITKIN COUNTY, COLORADO

MONITORING REPORT - 2020



PREPARED BY RIVERRESTORATION.ORG¹, JANUARY 2021



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Jason Carey – Principal Engineer; jason.carey@riverrestoration.org;
Quinn Donnelly – Project Manager – quinn.donnelly@riverrestoration.org

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EXECUTIVE SUMMARY

The Healthy Rivers Whitewater Park Project was constructed in 2016/2017 in Basalt, Colorado, with additional modifications taking place in 2018 and 2020. A monitoring plan was developed which included detailed hydrographic survey, hydraulic quantification through numerical modeling, and tracking of trends over time. This report follows the framework established by the monitoring plan and previous monitoring reports. This report details results from observations after the modifications and post runoff in 2020 compared to the previous condition in 2019. Hydrographic data collection and visualization, numerical modeling procedures and findings are described. Previously established adaptive management thresholds are used as metrics for the project. Established goals are met by the latest project configuration as described by the authors, but continued monitoring is recommended to assess possible implications of short-term geomorphic changes.

1. INTRODUCTION

The Healthy Rivers Whitewater Park in the vicinity of Basalt, Colorado was constructed during 2016 to establish a Recreational In-channel Diversion for this reach of the Roaring Fork River, augment local riverine recreational amenities, and improve channel stability. The encompassing project reach is centered at 39°21'45.6"N, 107°01'45.25"W, 6600-ft MSL, and spans approximately 600-ft of river distance. The surrounding river channel is characterized as a steep-gradient, coarse-substrate, mildly sinuous system with a capacity-limited bed-load sediment transport regime. Active bank erosion and lateral channel mobility within the project reach has historically occurred. Constructed modifications included two whitewater features composed of granite boulders and prefabricated free-standing concrete waveblocks constructed for recreational improvement, a series of boulder bank-attached vanes placed for geomorphic channel stability, a boulder path which provides access, and stone-toe protection for bank stability. Figure 1 provides a site overview with channel stationing and Figure 2 provides aerial photography of the project site under original conditions, as-built conditions in June 2017, post run-off conditions in August 2017, and post construction and run-off in November 2020 with pertinent project features identified.

An ongoing monitoring and adaptive management framework for the project was proposed by RiverRestoration (2016) to assess functionality changes over time and provide opportunities to address potential issues or augment project benefits. Two rounds of modifications have been made to the project since its initial construction; first in 2018 and most recently in early 2020.

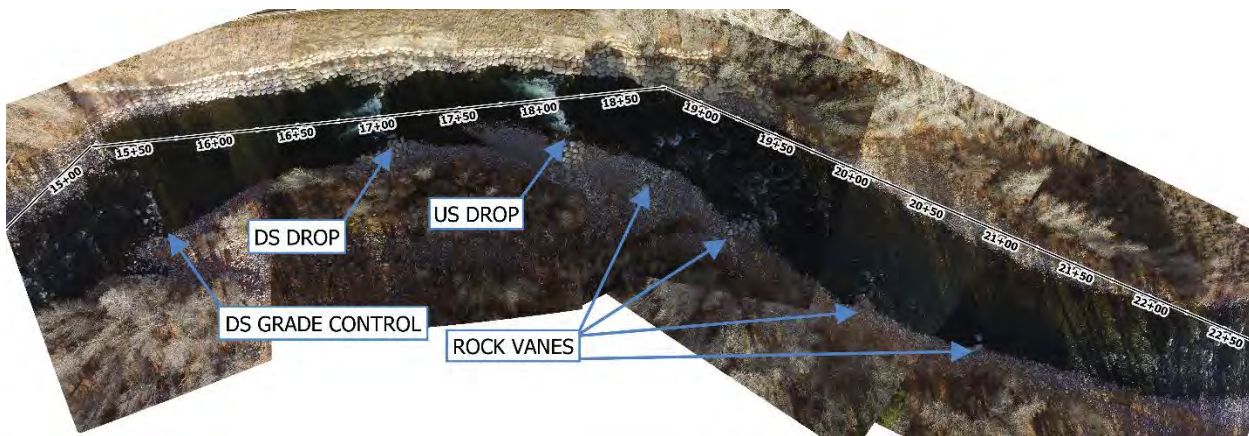


Figure 1. River channel center line stationing over November 2020 aerial imagery. Center-line location is approximate.



Figure 2. Pre-construction, post-construction, and post-runoff aerial photography of project site (September, 2011; June, 2017; August, 2017, November 2020, respectively) Upstream (US) and Downstream (DS) drops.

Channel Modifications

2017-2018 Modifications

An initial round of modifications was performed in the winter of 2017-2018 to address boat passage and channel stability concerns. These modifications included changes to the left wing of both structures and the addition of a small boulder grade control structure at the downstream end of the project.

2019-2020 Modifications

A subsequent round of modifications were completed in the winter of 2019-2020. The primary purpose of these modifications was to further improve boat passage during peak runoff based on observations and community feedback after the high water year runoff of 2019. Modifications included:

- 1) Adjusting the downstream grade control structure to lower the pool below the downstream wave feature. The downstream crest was lowered 9 inches over a width of 40 feet.
- 2) Removal of boulder spur that projected into the river from river right between the downstream feature and the downstream grade control.
- 3) Modifying the right wing of the downstream wave feature to provide boat navigation along the right side of the river at high water.
- 4) Modifying the right wing of the upstream wave feature to provide boat navigation along the right side of the river at high water.
- 5) Modifying the center of the upper wave feature to provide a more gradual drop and more clearance at high flows for watercraft to run the sides of the feature.

Monitoring Objectives

This report represents year four of six years of planned annual monitoring and reporting which documents the identified state parameters of *channel stability*, *fish passage*, and *boat passage*. The original monitoring plan called for 5 years and 1 year was added as part of the 2019-2020 modifications. State parameters and triggers for adaptive management are summarized from RiverRestoration (2016) as follows:

Channel stability - defined by the geomorphic characteristics of the channel reach including lateral and vertical stability, aggradation, degradation, deposition, bank erosion and scour. Channel stability is monitored through topographic (above water) and bathymetric (below water) survey and comparisons over time. Acceptable thresholds for changes to channel stability consider influences to other parameters of the system. Changes to recreational whitewater hydraulics, fish passage, boat passage, impacts to adjacent infrastructure, or a shift in geomorphic regime as a result of altered channel stability metrics may trigger adaptive management.

Fish passage – defined as successful navigation of target species across the project reach. Colorado Parks and Wildlife (CPW) indicated that target species include brown trout (*Salmo trutta*), rainbow trout (*Oncorhynchus mykiss*), mountain whitefish (*Prosopium willaimsoni*), sculpin (*Cottoidea*), and bluehead sucker (*Catostomus discobulus*). Fish passage at jumping and velocity obstacles has been the focus of significant research, some of which relating fish swimming performance data and hydraulic quantities to passage success. CPW provided swimming performance metrics for the identified target species as reported in Table 1. Definitive limits for passage success were set at depths greater than or equal to 0.5ft velocity less than or equal to 3ft/s in order to best encompass all target species. Table 1 further reports pre-project conditions

velocities collected by RiverRestoration (2016) which are representative values existing in riffles before project modifications. The reported flow rate corresponding to the representative existing (pre-project) condition (291 ft³/s) aligns with identified critical spawning and juvenile dispersion periods for the project reach. Adaptive management thresholds for fish passage were defined by fish being obstructed from migrating across the reach. Adaptive Management may include measures such as evaluating hydraulic conditions per the thresholds in Table 1, modifying a hydraulic structure or improving potential swim paths.

Table 1. Swimming performance hydraulics

Target Species	Velocity (ft/s) ¹	Minimum Depth (ft)	Vertical Drop (ft) ²
Trout ^{3,6}	3-6	0.5-1.0	0.5-1.0
Native minnows and darters ³	1-2	0.5	0.0
Native dace and suckers ^{3,5}	3-4	0.5	0.0
Pre-project conditions – 291 ft ³ /s ⁴	3-6	0.5	0.0

¹ At a depth approximately 0.3 feet off of the channel bed.

² Vertical drop is defined as crest elevated above a tailwater with a freefalling section between them and may be interpreted as a jumping requirement.

³ Metrics Provided by CPW

⁴ As determined from characteristic velocities at an existing riffle in the project reach. Example velocity range for specific flow rate.

⁵ May act as a surrogate for sculpin swimming performance

⁶ Comparable thresholds to mountain whitefish

Boat passage – defined by the ease of watercraft navigation through the project reach. American Whitewater (1998) defines the International Scale of River Difficulty (ISRD) as a subjective consensus amongst river users of the level of effort, required skill, and objective hazard associated with a whitewater feature and ranks features from Class I (easiest) to Class VI (most difficult). Instream features within the Roaring Fork River proximal to the project reach are characteristically Class III (intermediate), including multiple drop features at irrigation diversions and piers at bridge crossings. Boat passage within the project reach will be targeted for the characteristic Class III difficulty of the encompassing river. Consensus of an ISRD difficulty exceeding Class III may warrant adaptive management of the features for the greatest recreational benefit across river users.

This report details monitoring efforts to-date as of Fall 2020. Efforts reported herein were conducted over the course of 2020. Hydrographic survey was performed, allowing for documentation of channel morphology, assessment of key hydraulic parameters, and tracking of channel stability. These data were then utilized to develop and calibrate a numerical model which resolved flow distributions throughout the full project reach and informed development of hydraulic rating curves and quantification of fish-passage hydraulics.

2. HYDROGRAPHIC SURVEY

Hydrographic survey includes the collection of data capable of comprehensively representing a river system for a specified purpose. For this project, topographic, bathymetric, water-surface elevation, and velocity data collected over a range of instream flow rates produced information capable of fulfilling stated monitoring objectives. Topographic and bathymetric survey data were collected using a

combination of RTK-GPS and Total Station instrumentation. Data were collected at a resolution to capture elevation gradients and represent instream features at a level of accuracy for channel stability comparisons and hydraulic modeling. Water-surface elevation data were also collected using an auto level and known benchmark elevation. These data were accurate to approximately ± 0.1 ft. Velocity data were collected using a Hach two-dimensional flow meter with instrument accuracy of approximately $\pm 2\%$ of the velocity magnitude.

Table 2 provides the date, survey type, and flow rate of collected information for the as built and post run-off conditions. Appendix A includes detail survey data and contour surface from the 2020 monitoring effort. Appendix C compares cross-sectional elevations through the life of the project, with the current conditions represented by a dark black line. The structural changes made during the 2010-2020 modifications can be seen in several of the cross sections. The channel bed has generally remained consistent below the lower feature after the initial post construction runoff in 2017. Between the two wave features, a depositional bar has formed in the channel center and left side starting near RS 17+50 and continuing through the upstream wave feature at RS 18+17. The deposition observed at RS 18+00 brings the bed to a similar elevation as was present pre-project and post 2017 construction but pre 2017 run-off.

Table 2. Survey date and details

Date of Survey	Survey Type	Discharge (ft ³ /s)
5/1/2020	Auto-Level	420
8/19/2020	Auto-Level	143
10/23/2020 to 11/4/2020	GPS	162 to 247 WSE @ 188

Time-averaged velocity magnitude data were collected at the channel margins of both the upstream and downstream features at a flow of 200cfs. Thirty second time averaged measurements were made in flow seams among boulders where fish would likely migrate up the whitewater park features. Measurements were positioned to capture what was identified in the field as the likely pinch points in an upstream migration path and would be the locations of highest burst-speed velocity required. Measurements were performed at positions 6 and 3 inches above the bed. Two measurements were made at each position and the values averaged for use in analysis of fish passage (Section 4B).

3. HYDRAULIC MODELING

Hydrographic data were used to develop and calibrate two-dimensional, depth averaged models to quantify hydraulics throughout the project reach. The model was used to assess water-surface profiles, rating curves, general hydraulic conditions for a variety of flow rates, and to serve as a baseline tool for evaluation and examination of potential adaptive management modifications.

Two-dimensional modeling simulates hydraulics in the streamwise and lateral directions, averaging values through the water column in the vertical. SRH-2D is a two-dimensional numerical code widely implemented for hydraulic applications and was used to simulate conditions within the project reach.

Simulations were performed on the surveyed post-runoff channel geometry with the solution domain bounded by the downstream riffle crest (approximately RS 15+25) and the upstream channel bend

(approximately RS 19+26). Downstream boundary conditions were established as surveyed water-surface elevations and upstream boundary conditions were defined by a volumetric flow rate and automated water-surface elevation. Grid resolution for the model was established at 0.4-ft in the vicinity of the whitewater features which effectively captured flow distributions and hydraulic gradients. Manning roughness values were established based on calibrating water-surface elevations at targeted locations to surveyed values at low and medium flow level, 188cfs and 420cfs respectively. Roughness values were set according to channel location, with the gravel bed areas at 0.025, coble bed areas at 0.035, boulders and waveblocks at 0.025, and overbanks at 0.04. Table 3 and

Table 4 provide model calibration results. Modeled and observed water surface elevations were generally within 0.16 ft of each other for both flow rates. These magnitudes of differences are under 10% of the average flow depth the lower flow rate which is approximately the order of accuracy of the survey and hydraulic modeling. Figure 3 shows modeled water surface profiles for the calibration flows and Figures 4 and 5 provide hydraulic model output of velocity magnitude distributions for the target fish passage flow and a typical peak run-off flow level.

Table 3. 188 ft³/s calibration survey data, model data, and comparison

Location	Survey	Model	Difference (ft)
Upstream Upper Feature	6609.69	6609.71	0.02
Downstream Upper Feature	6609.87	6609.88	0.01
Upstream Lower Feature	6608.55	6608.39	-0.16
Downstream Lower Feature	6608.11	6608.18	0.08
Above Downstream Riffle Crest	6607.22	6607.46	0.24

Table 4. 420 ft³/s calibration survey data, model data, and comparison

Location	Survey	Model	Difference (ft)
Upstream Upper Feature	6610.46	6610.58	0.12
Downstream Upper Feature	6609.15	6609.27	0.12
Upstream Lower Feature	6609.12	6609.10	-0.02
Downstream Lower Feature	6607.92	6608.03	0.11
Above Downstream Riffle Crest	6607.89	6607.97	0.08

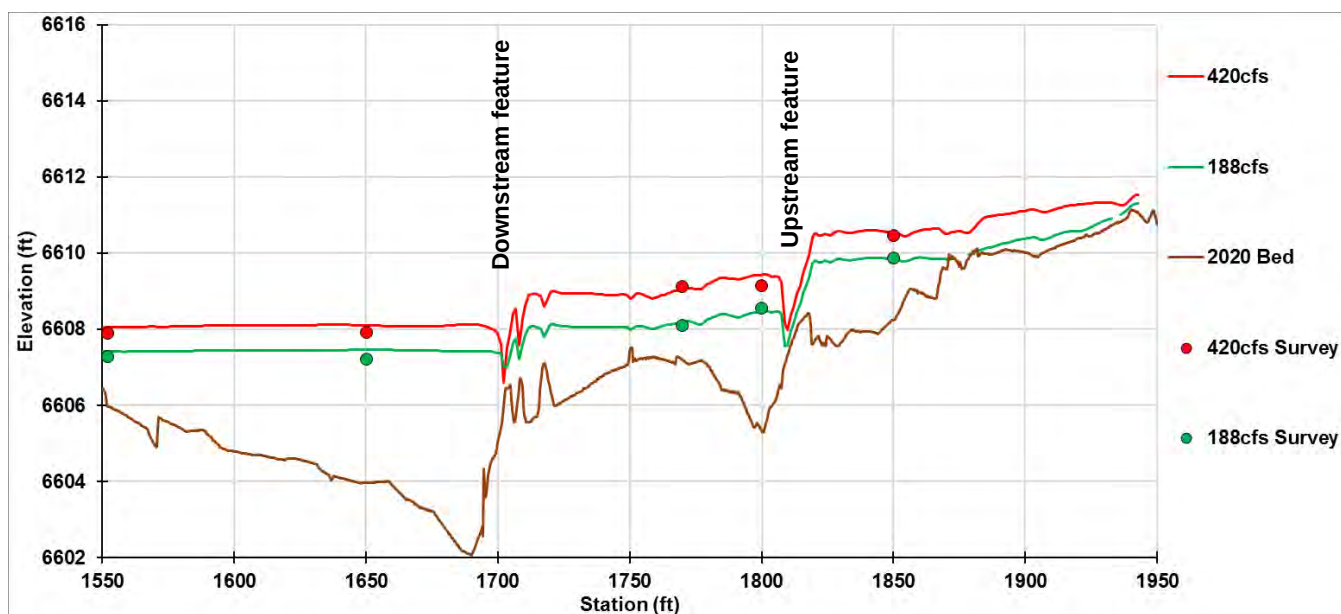


Figure 3. 420cfs and 188cfs model calibration flows and corresponding field survey WSE points.

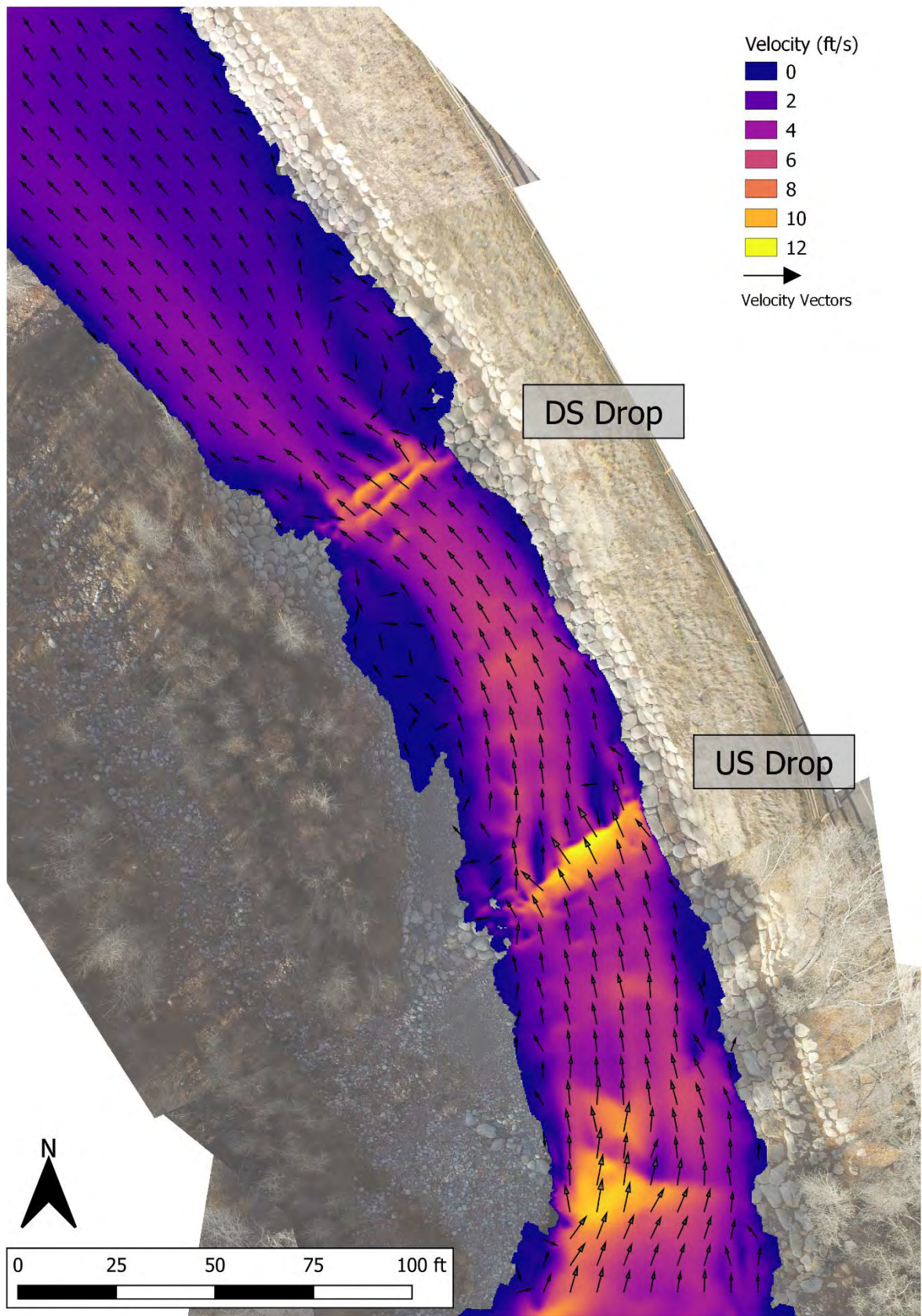


Figure 4. Site Conditions in Fall 2020 – 291 ft³/s fish passage target flow rate

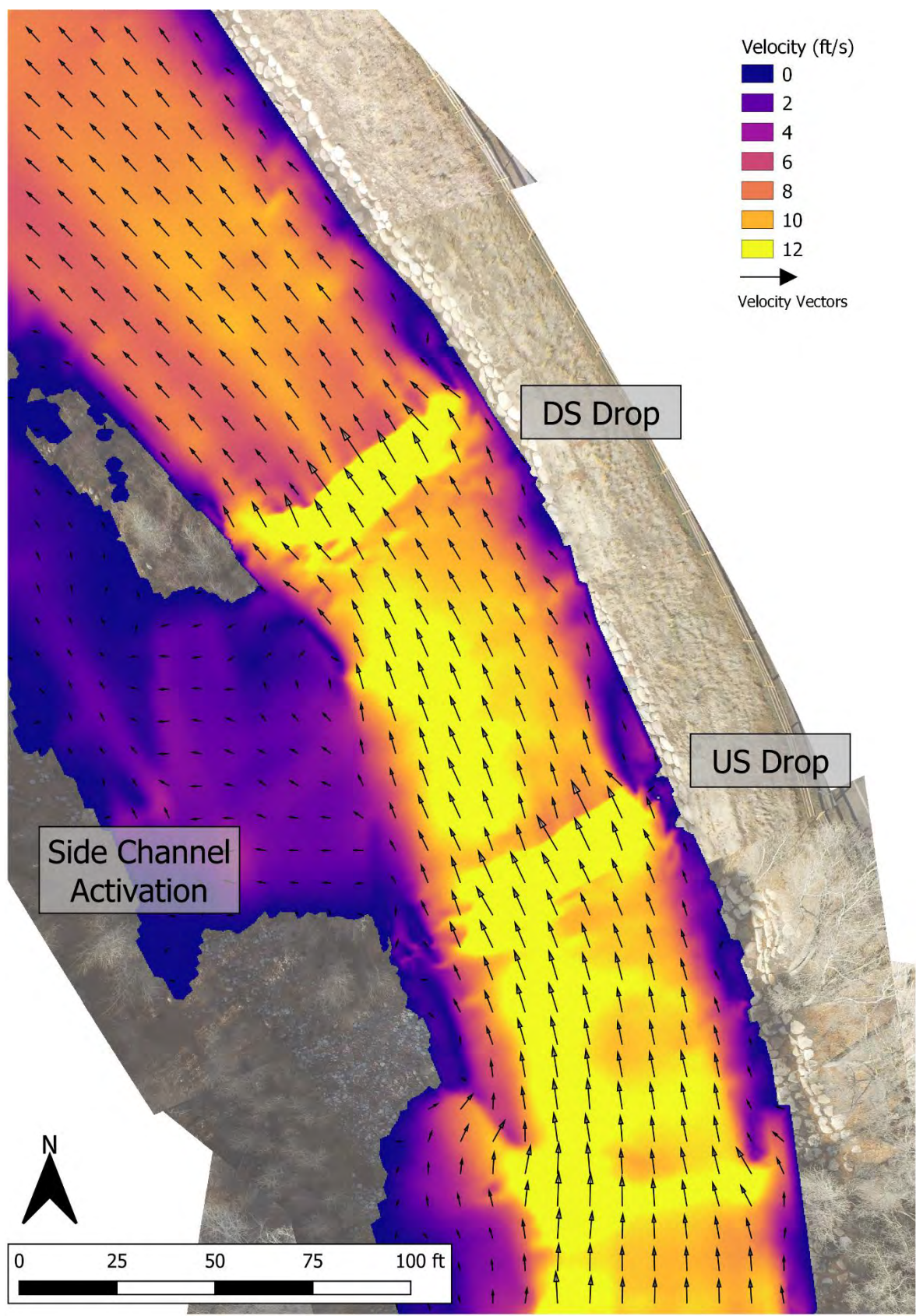


Figure 5. Site Conditions in Fall 2020 – 3480 ft³/s typical peak run-off level

Additional flow rates ranging from 188 ft³/s to 3,450 ft³/s were evaluated for the 2019-pre-modification condition and 2020-post run-off condition models to assess hydraulic conditions. Water-surface elevations were extracted from the model output at sections upstream and downstream of the whitewater features and rating curves were developed. Figure 6 and Figure 7 provide rating curves for the downstream feature and Figure 8 and Figure 9 detail the upstream feature. TabWater surface rating curves from previous modeling performed for the 2017-post run-off condition were also included.

As illustrated, the water surface elevations decreased above and below both features at nearly every flow level between 2019 and 2020. The only outlier from this trend was the location above the downstream feature at the highest discharge modeled (3480cfs). Overall that location experienced the smallest change in WSE, which was expected based on the location of the alterations performed in 2020. The WSEs were lowered below the downstream feature as was expected with the lowering of the downstream grade control.

At the upstream feature, the decrease in WSEs between 2019 and 2020 grew with the level of discharge. At the downstream feature, the change in WSE varied less with discharge. Headloss change between 2019 and 2020 across the upper feature ranged from no change to a 0.6ft with the largest change at 827cfs (Table 5). Headloss across the lower feature increased between 0.1ft to 0.4ft from 2019 to 2020 but the magnitude did not vary directly with discharge.

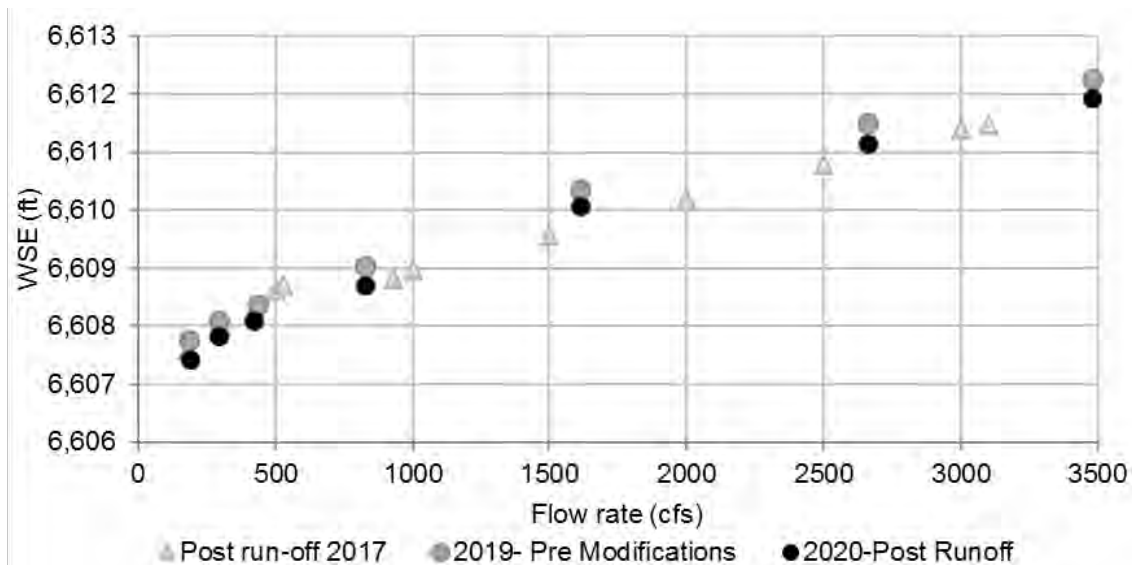


Figure 6. Rating curves downstream of downstream feature

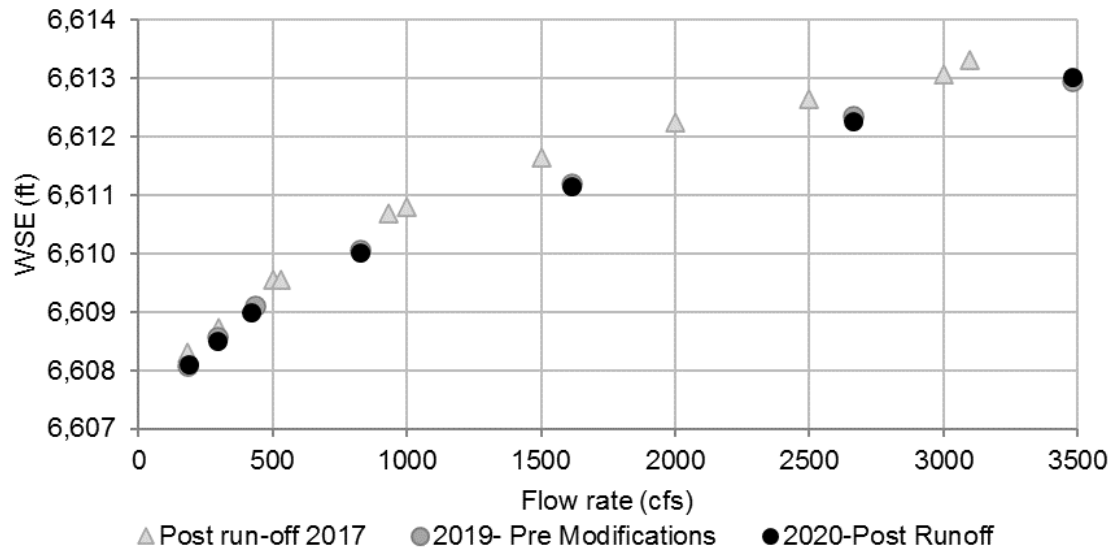


Figure 7. Rating curves upstream of downstream feature

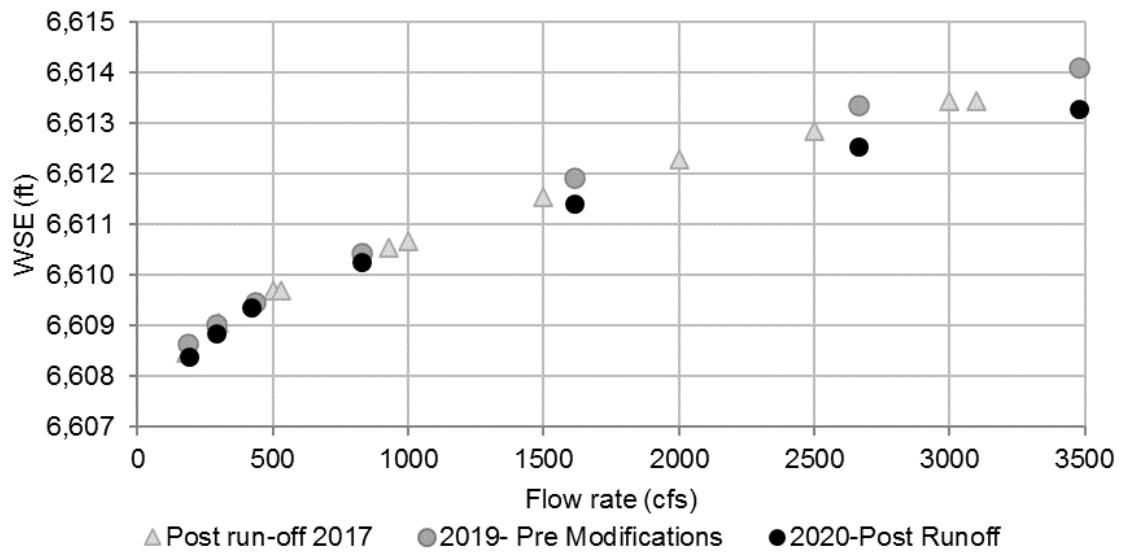


Figure 8. Rating curves downstream of upstream feature

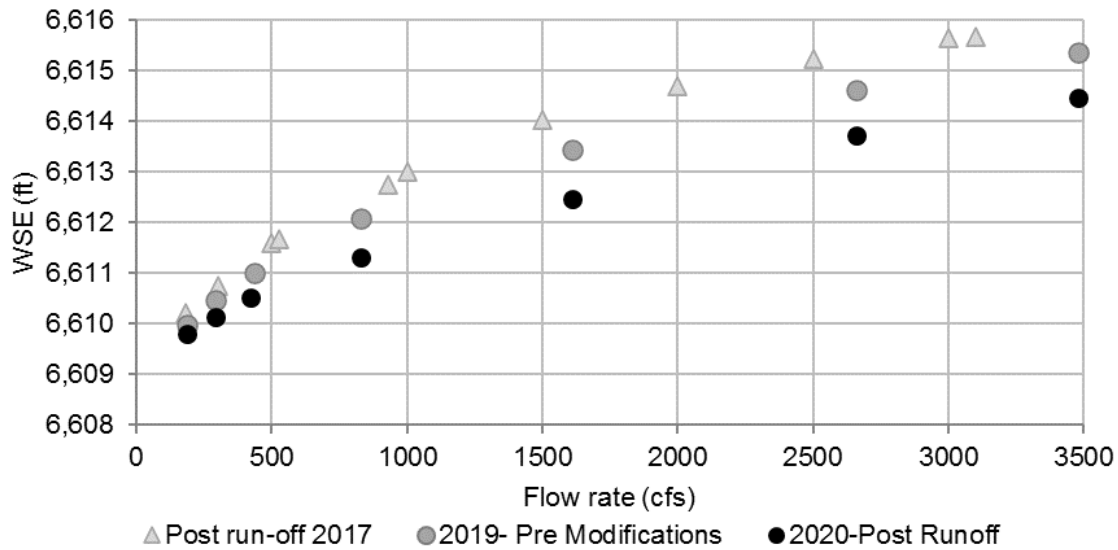


Figure 9. Rating curve upstream of upstream feature

Table 5. Headloss across both the upstream and downstream features at each modeled flow rate and how those values changed from the 2019 model results

Flow (cfs)	DS Drop Headloss (ft)	Change from 2019 (ft)	US Drop Headloss (ft)	Change from 2019 (ft)
188	0.69	0.37	1.43	0.10
291	0.68	0.20	1.29	-0.15
420	0.89	0.14	1.17	-0.35
827	1.33	0.31	1.05	-0.60
1611	1.07	0.24	1.04	-0.47
2662	1.14	0.30	1.18	-0.09
3480	1.10	0.41	1.18	-0.08

4. MONITORING RESULTS AND DISCUSSION

Results of the hydrographic survey and hydraulic modeling data were synthesized to evaluate the monitoring objectives related to *channel stability*, *fish passage hydraulics*, and *boat passage rating*.

A. *Channel stability*

Channel stability was analyzed based on the influence of topographic and bathymetric changes to the hydraulic and stated function of the project reach. Collected hydrographic survey and two-dimensional model results informed assessments. Moving upstream to downstream through the project reach, observations between fall 2019 to fall 2020 conditions are expounded as follows:

- 1) The geomorphic bank-attached vane field has remained stable throughout all monitoring observations through 2020 and performed according to hydraulic intent. Surveyed boulder top elevations show that no major movement or settling has occurred. No notable bank erosion or aggradation beyond the initial, expected changes has occurred in subsequent years. The modifications performed in 2018 and 2020 did not physically alter or affect the performance of the boulder vanes.
- 2) The waveblocks and wingwalls on the upstream feature remained stable and functioned accordingly through run-off in 2020. The river right waveblock on the upper feature was modified during the 2019-2020 work.
- 3) Alluvial deposition (2-2.5ft) was observed downstream of the upstream feature (Figure 10 and 11). A gravel and cobble bar formed on the left side of the channel below the wingwall and became visible as flow receded. It is composed of gravel sediments of to 6in.+ cobbles. During the 2020 survey flows of near 200cfs, the top of the bar was dry. Based on the 2020 hydraulic modeling, the bar is inundated by flows as low as 420cfs. Additionally, it is anticipated that high runoff flows will mobilize and clear this bar as flows continue to inundate the left wingwall. Boat passage is therefore not expected to be impeded by the bar at flow levels where the left “sneak” is available. Assuming the bar is cleared by high runoff flows, it may be likely to reform as flows recede each year.
- 4) The waveblocks and wingwalls on the downstream feature also remained stable and functioned accordingly through run-off in 2020. The waveblocks in the downstream feature have not been modified since the original construction.
- 5) Scour and deposition associated with the downstream feature was minimal outside of the boundary where modifications took place. The key modification downstream was the removal of the boulder spur on river right (Figure 11), the eddy upstream of this previous feature did experience some minor deposition.
- 6) Modifications were also made to lower the downstream riffle crest. This middle of the downstream grade control was lowered approximately 9 inches over a distance of 40 feet. This led to a lowering of the channel upstream of this structure. The downstream grade control remained stable and functioning in the new configuration through 2020 runoff, which peaked at 2,900 cfs on June 7, 2020.



Figure 10. View from left wingwall of upper feature facing downstream. Newly formed depositional gravel/cobble bar.

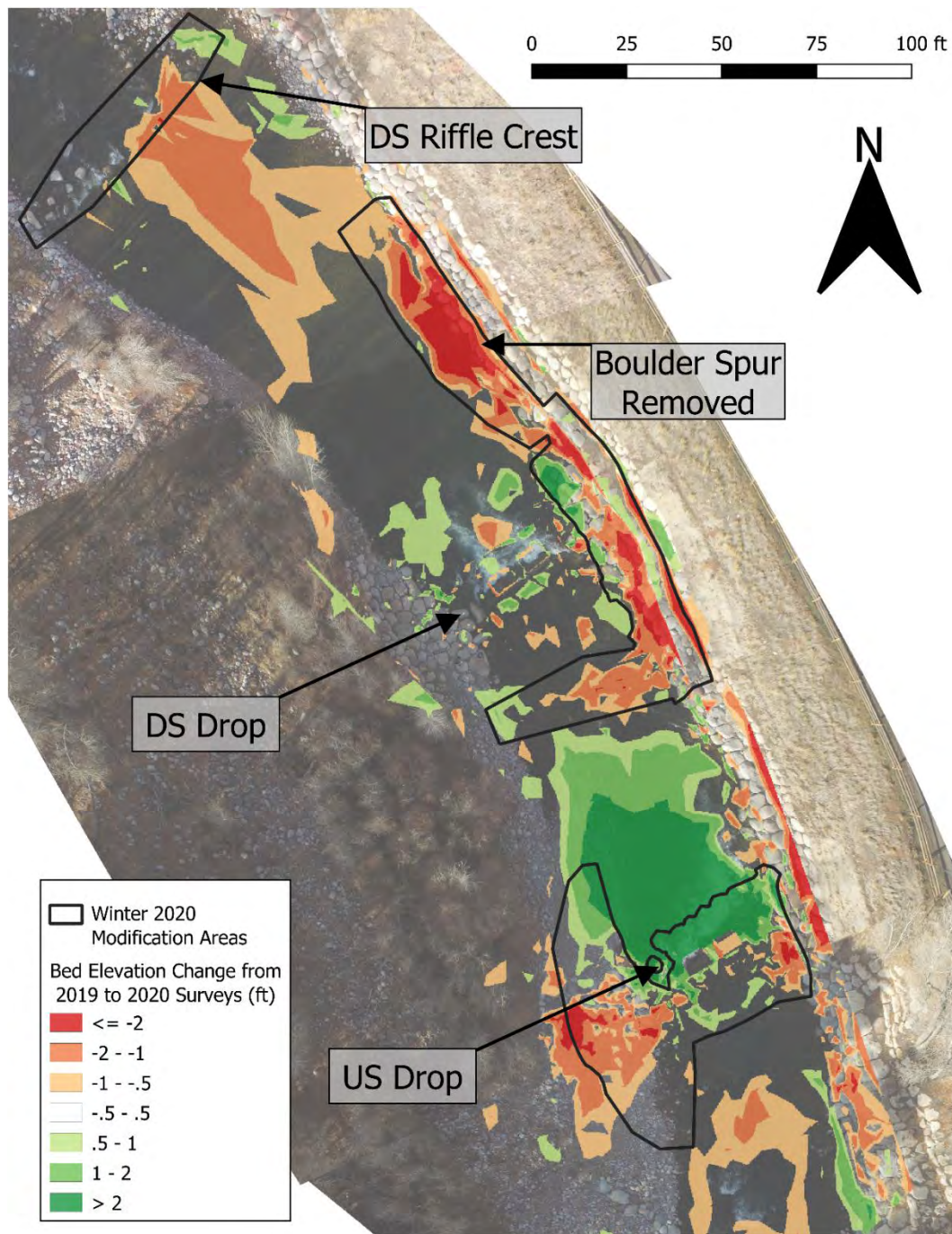


Figure 11. Scour (red) and deposition (green) changes between fall 2019 and fall 2020. Black outlines indicate the extents of in channel modifications.

The channel has maintained its general planform, expected local scour dynamics did not present hazards to structures, and the general function of the project reach was maintained. No geomorphic thresholds have been breached. The deposition occurring below the left wingwall of the upper feature will continue to be monitored to see if additional sediment accumulates. Action may be warranted if it presents an obstacle to navigation.

B. Fish passage

Fish passage hydraulics were evaluated using 2D hydraulic models and methods corresponding to CPW studies which produced comparative data to the passage metrics indicated in Table 1. Velocity and depth criteria were interpreted as binary such that exceeding values indicated potential passage barriers. **Error! Reference source not found.** and 13 show the upstream and downstream features areas of suitable fish passage for 2020 conditions based on depth and velocity criteria at the target fish passage flow level of 291cfs.

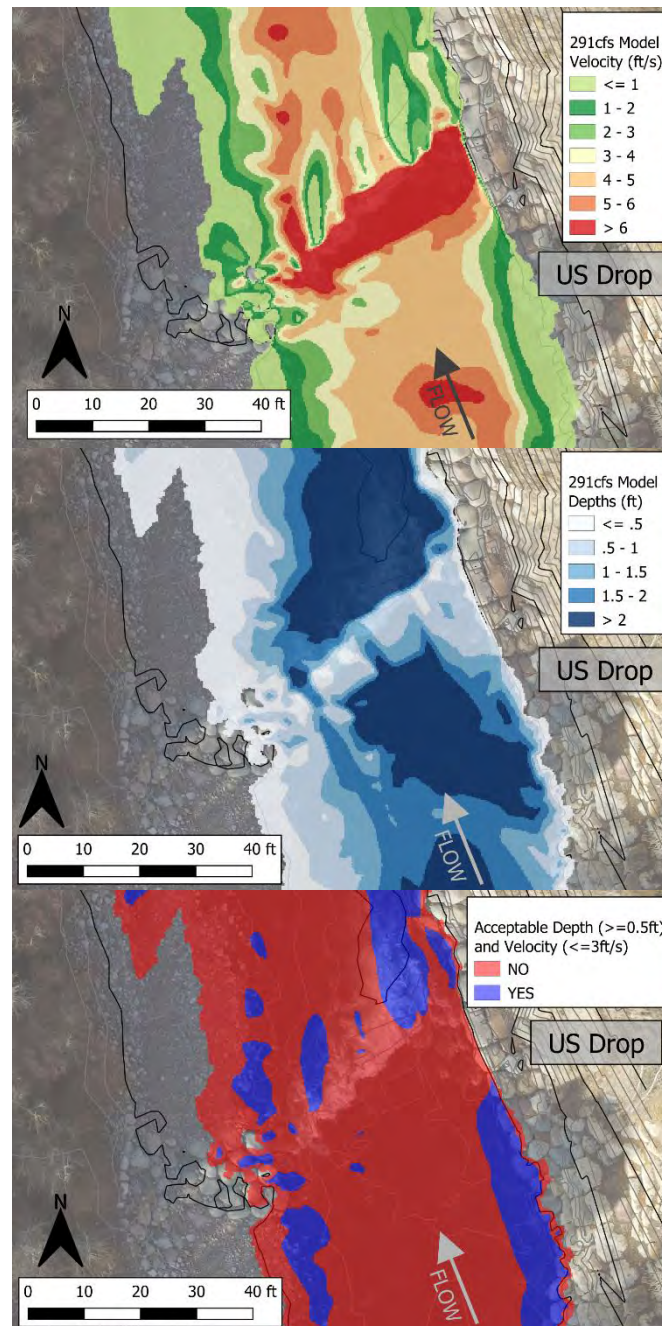


Figure 12. From top: Modeled velocities of upstream feature at the target fish passage flow of 291cfs; Modeled depths of upstream feature at the target fish passage flow of 291cfs; Areas of suitable fish passage (blue) at the target fish passage flow of 291cfs. Suitability based on both depth (≥ 0.5 ft) and velocity (≤ 3 ft/s) conditions being met.

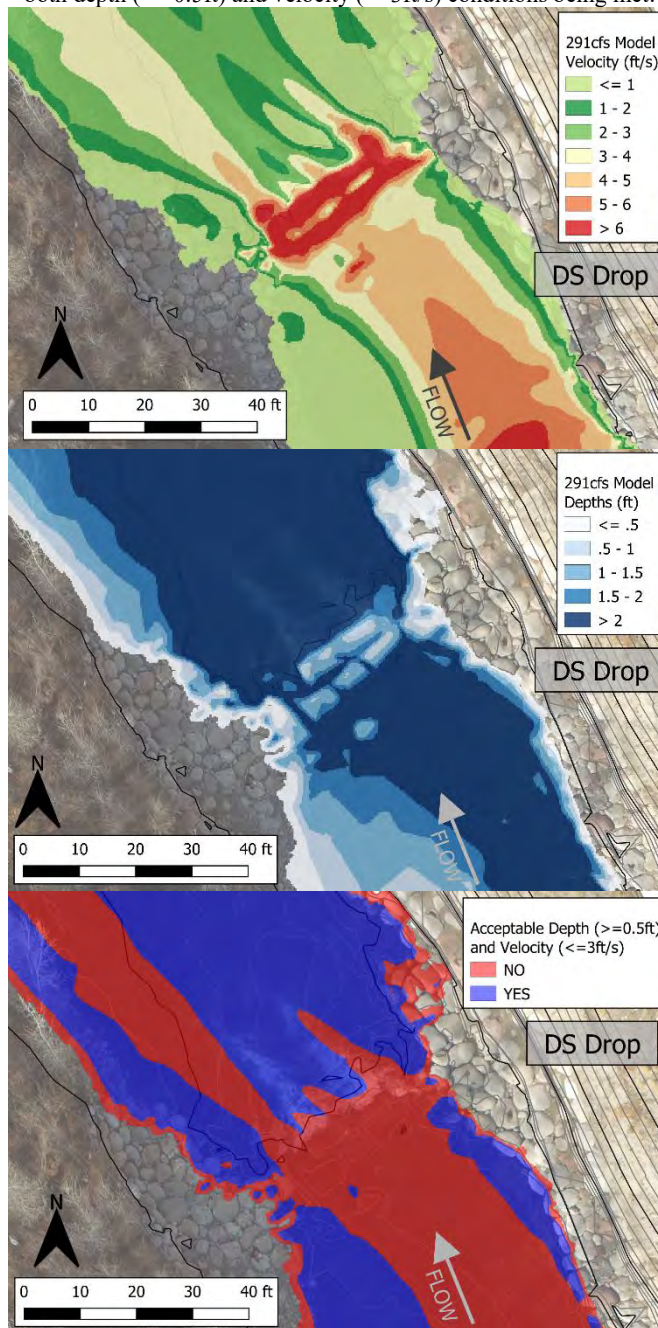


Figure 13. From top: Modeled velocities of downstream feature at the target fish passage flow of 291cfs; Modeled depths of downstream feature at the target fish passage flow of 291cfs; Areas of suitable fish passage (blue) at the target fish passage flow of 291cfs. Suitability based on both depth (≥ 0.5 ft) and velocity (≤ 3 ft/s) conditions being met.

The combined results of the depth-averaged, 2-dimensional model approach indicates that suitable passage does not exist across the either feature. In the channel center, passage is limited by velocity. On the channel margins, where lower velocities are found, passage is limited by depth. However, it is important to note that the 2D model results represent a depth averaged velocity value. This approach is unable to resolve the small scale roughness and interstitial flows within the coarse cobble substrates at

the project site. Flow paths, refugia, or microscale hydraulics exist, particularly near the channel margins, which may be exploited during passage which are not captured within the model.

We therefore considered the velocity measurements taken at the site during the survey in November 2020 and how those relate to our model results (Figure 14-18). These velocity measurements were positioned to capture the most likely fish passage locations up the critical portions of the wave features. The measurements were positioned at 3- and 6-inches above the bed which a depth averaged model approach is not well suited to capturing. By identifying likely velocity limiting points in upstream flow paths, we were able to observe that lower velocity paths still exist closer to the bed through the complex, interlocking boulder structures of the downstream and upstream features. Because the velocity measurements were performed at 200cfs, we need to extrapolate our data using the 2D model results to consider the 291cfs monitoring level. Based on modeling results, the wetted flow area will not change significantly between the 200cfs and 291cfs flow level at the key areas around the whitewater features (Figure 14). This indicates that the upstream fish passage routes should remain in the locations we identified in the field but just be in deeper water with the boulders further submerged. Model results indicate that velocities may increase 10-25% going from 188cfs to 291cfs. If we assume the maximum 25% increase to our near bed velocity measurements, then we will still find location on the margins of both the upstream and downstream drop features with velocities under the 3ft/s threshold. Additionally, the increase in velocity as flow increases is likely to be reduced closer to the bed.

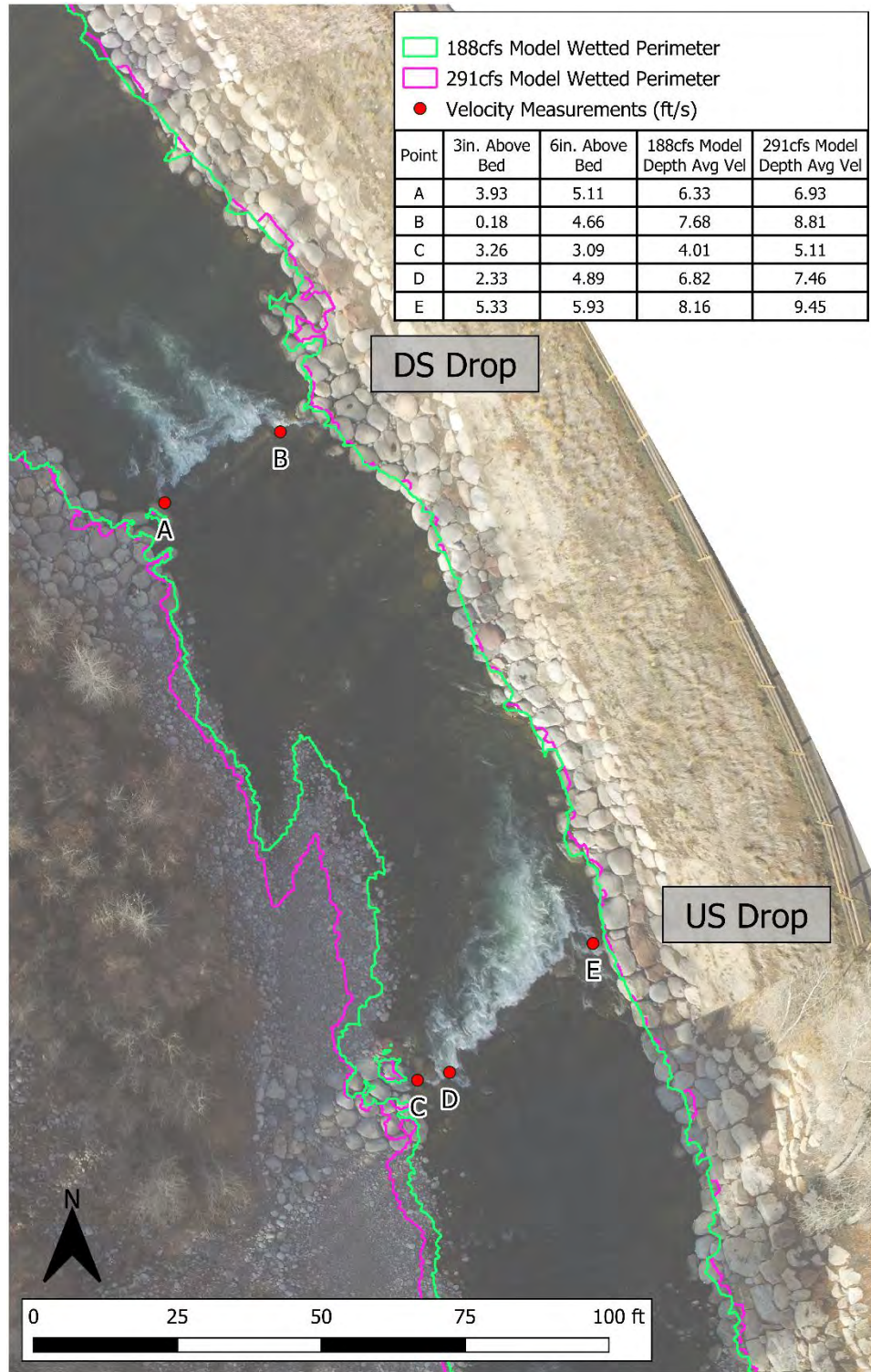


Figure 14. Velocity measurement locations and values from November 2020 at 200cfs in addition to depth average model velocities at 188cfs and 291cfs. Model result wetted perimeters show that the flow boundary only experiences a small change in the proximity of the drop features between 188cfs and 291cfs.



Figure 15. Upstream feature showing velocity measurement locations.



Figure 16. Upstream feature – River Right (E above) and River Left (D and C above) fish passage routes.



Figure 17. Downstream feature showing velocity measurement locations.



Figure 18. Downstream feature – River Right (B above) and River Left (A above) fish passage routes.

C. Boat passage

The 2020 modifications were intended to improve the ease of boat passage, particularly on the upper feature and the outside of the bend. ‘Sneak’ routes were created on both sides of the upper feature and the right side of the lower feature by lowering the wingwalls to allow passage and avoid the wave hole at higher flows. A ‘sneak’ route was added to the left side of the downstream feature in the winter of 2018. Based on conversations in passing with river users in the community and the firsthand experience of the authors of this report, the 2020 modifications did improve boat passage through the white-water park. Utilizing the sneak features to by-pass the wave holes at peak run-off now appears to fall within a Class III difficulty rating. The runoff in the Roaring Fork River in 2020 at or below average, with only 4 days exceeding 2,000 cfs. Boat passage at higher flows will continue to be monitored.

5. RECOMMENDATIONS

Monitoring data and analyses indicated that all three identified metrics, channel stability, fish passage, and boat passage achieved set threshold values, but potential attention areas were noted. Specifically, the ability of high flows to seasonally flush the newly formed depositional area between the upstream and downstream feature. Continued monitoring efforts in subsequent years should adhere to the framework established in this report. Collaboration between the monitoring agency and biological specialists, namely CPW, is recommended to ensure the most benefit is achieved at the whitewater park for the stated monitoring goals.

6. SUMMARY

Monitoring of the Pitkin County Whitewater Park was conducted in 2020 during the fourth year of runoff since the initial project implementation and the first year since the most recent updates to the project. Hydrographic survey was performed over a range of dates and sufficient information was collected to develop numerical modeling tools to assess hydraulic conditions within the channel. 2019 and post construction and runoff 2020 conditions were documented and compared. Detailed 2D hydraulic modeling was performed to evaluate hydraulic conditions for the purpose of fish passage in conjunction with velocity measurements targeting likely swim paths. Efforts reported herein follow an established framework for continued monitoring plans.

Data from monitoring efforts were analyzed for the objectives of channel stability, fish passage, and boat passage. Channel stability did not warrant immediate adaptive management response based on established criteria. Areas of local scour and deposition were highlighted, but generally still fall within bounds that have been observed in previous monitoring reports for this project and the pre-project condition. Most notably, deposition below the upper feature on the left side of the channel should continue to be observed. Evaluated fish passage hydraulics through the project site indicated that flow paths exist through both whitewater features which meet the established swimming-performance values. Boat passage was considered to fall within the threshold Class III ISRD rating at high flows after the 2020 modification were implemented. Upstream signage may need to be updated to indicate the preferred route through the feature at high flows. Future monitoring efforts and community engagement should be completed to ensure the project continues to perform as intended.

7. REFERENCES

- American Whitewater (1998). “International scale of river difficulty.” https://www.americanwhitewater.org/content/Wiki/safety:internation_scale_of_river_difficulty
- RiverRestoration (2016). “Pitkin County recreational in-channel diversion project monitoring and adaptive management plan.” Prepared for Pitkin County, Colorado.

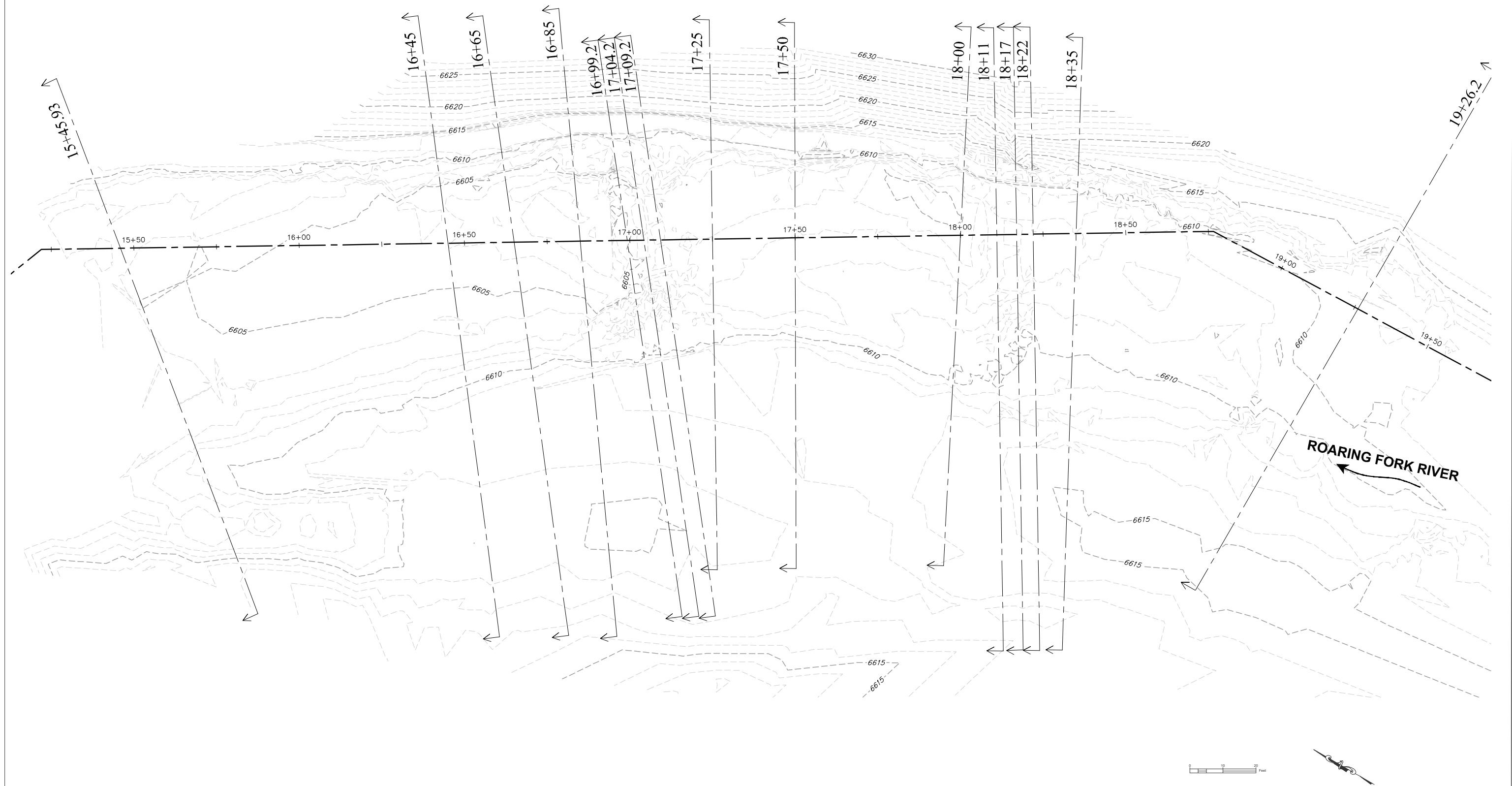
APPENDIX DESCRIPTIONS

APPENDIX A – 2020 POST RUNOFF CONDITION CONTOURS

APPENDIX B – PHOTOGRAPHY LOG

APPENDIX C – SECTIONAL SURVEYS AND COMPARISONS

APPENDIX D – TABULATED SURVEY DATA



APPENDIX A - FALL 2020 POST RUN-OFF CONDITION - SURFACE CONTOURS

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APPENDIX B – PHOTOGRAPH LOG

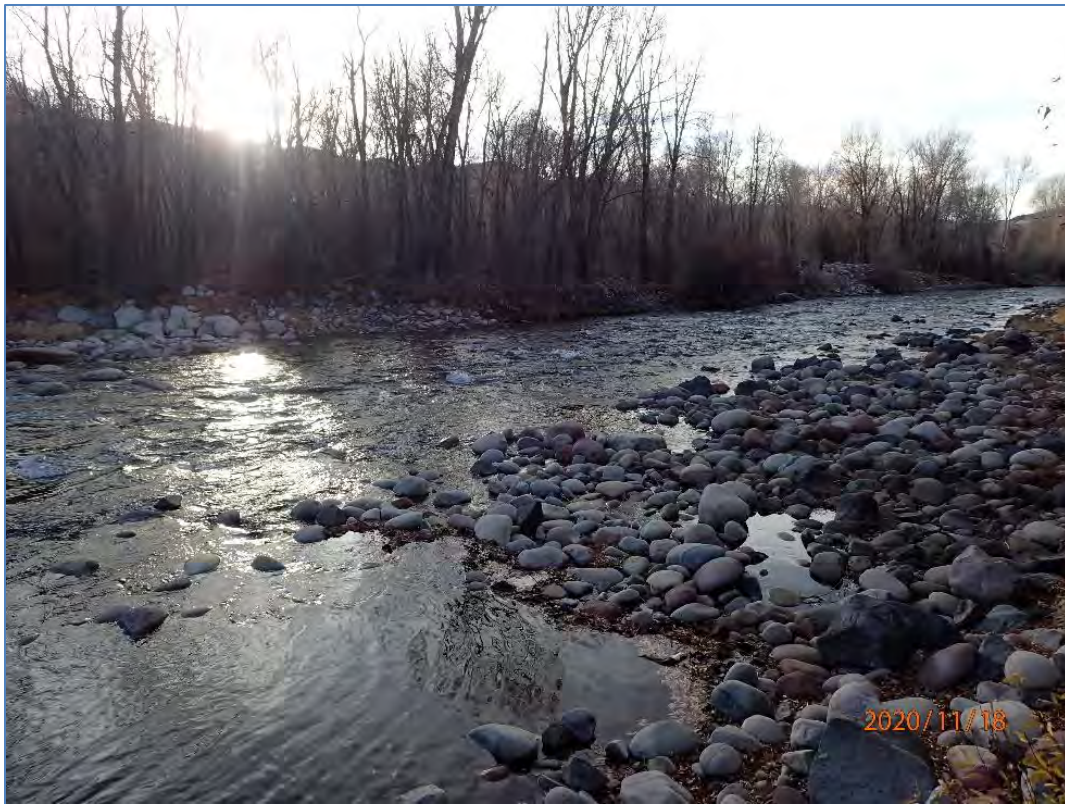


Figure 2 - Photo 1

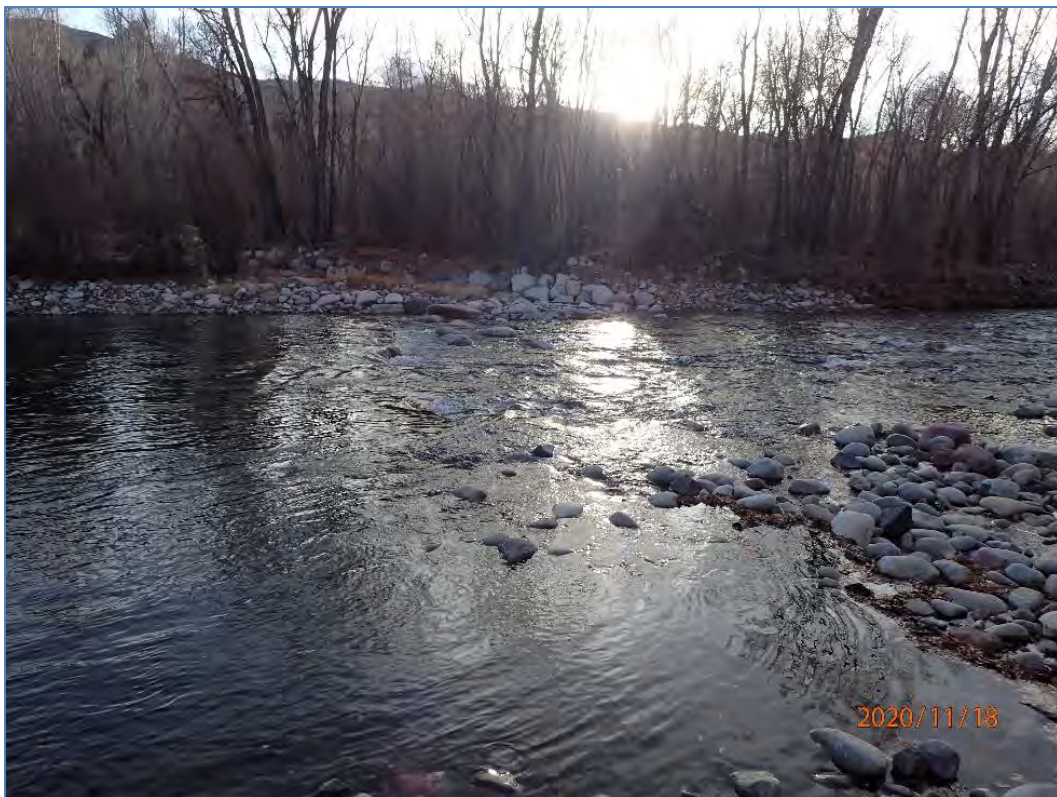


Figure 3 - Photo 2



Figure 4 - Photo 3



Figure 5 - Photo 4

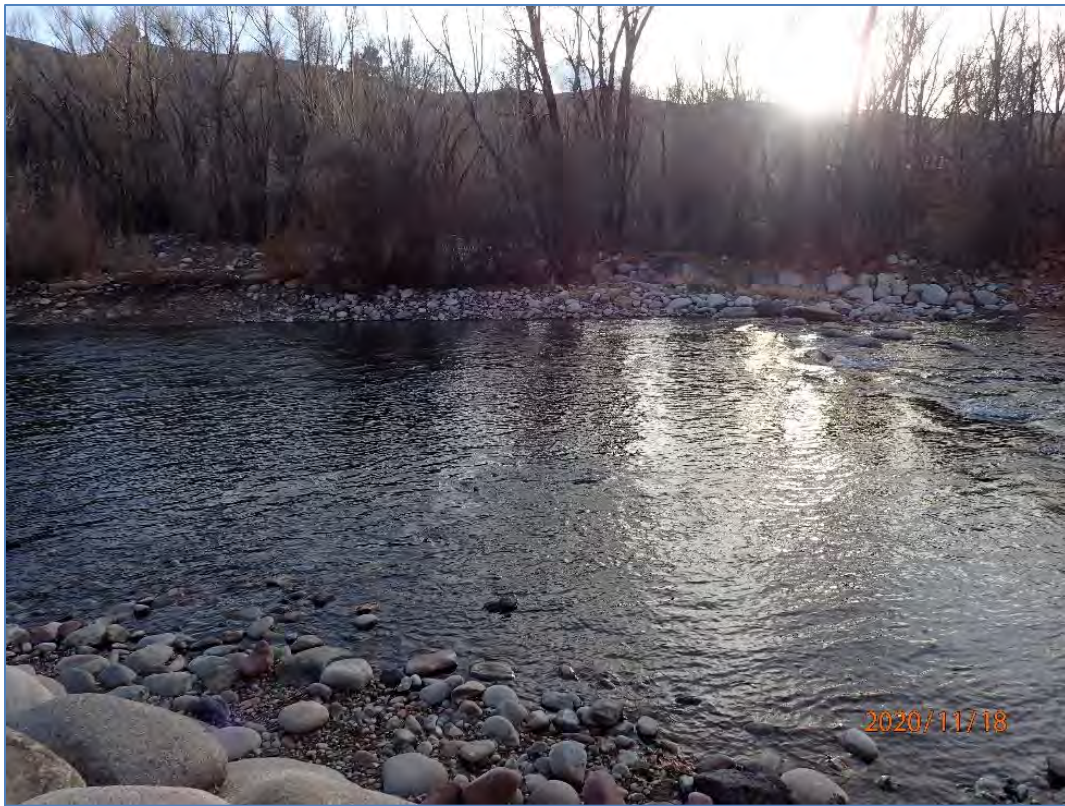


Figure 6 - Photo 5

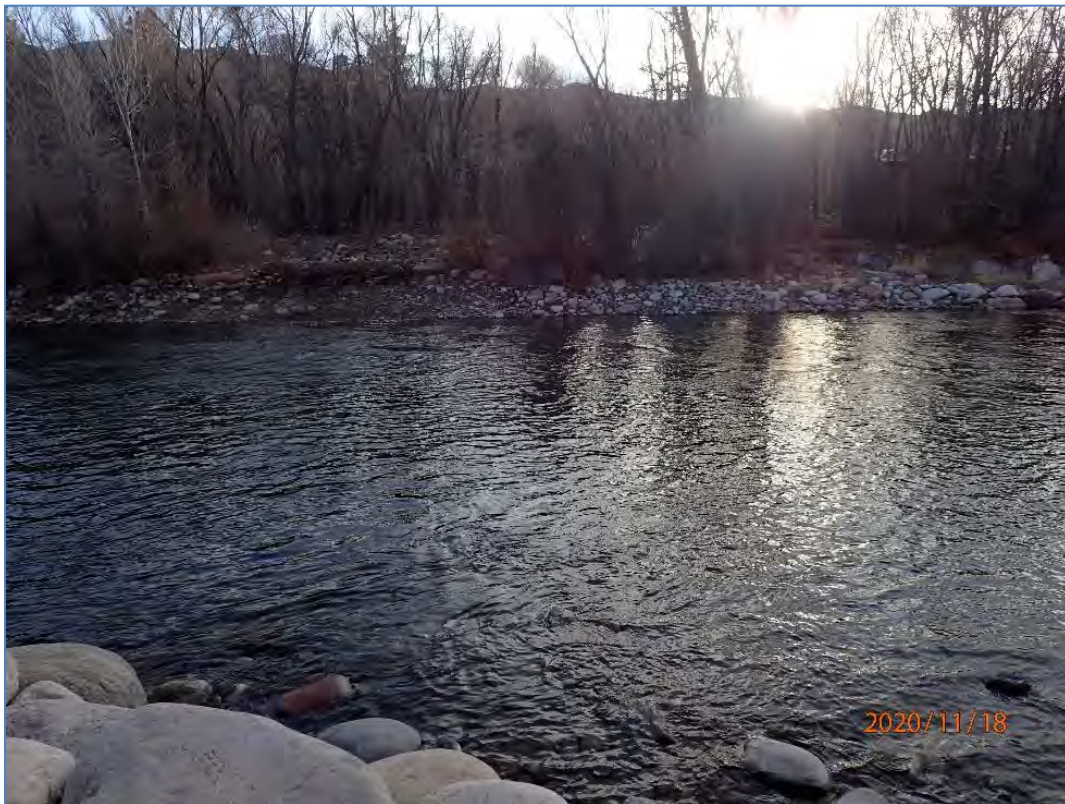


Figure 7 - Photo 6

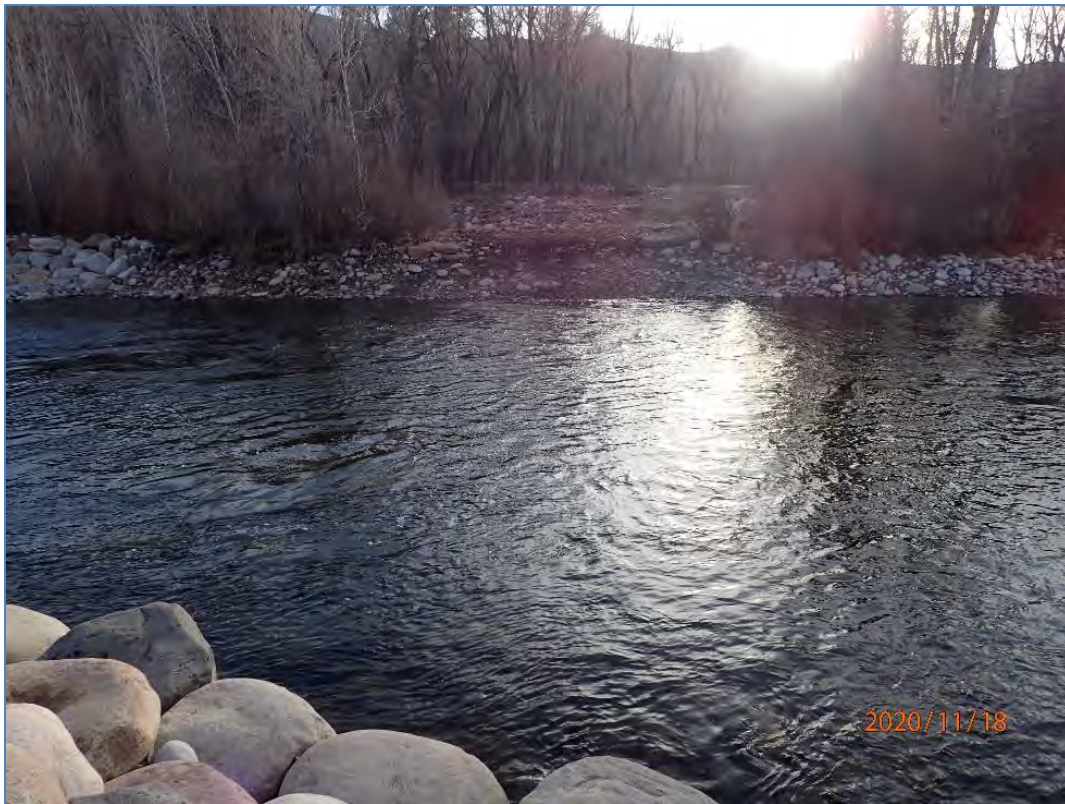


Figure 8 - Photo 7

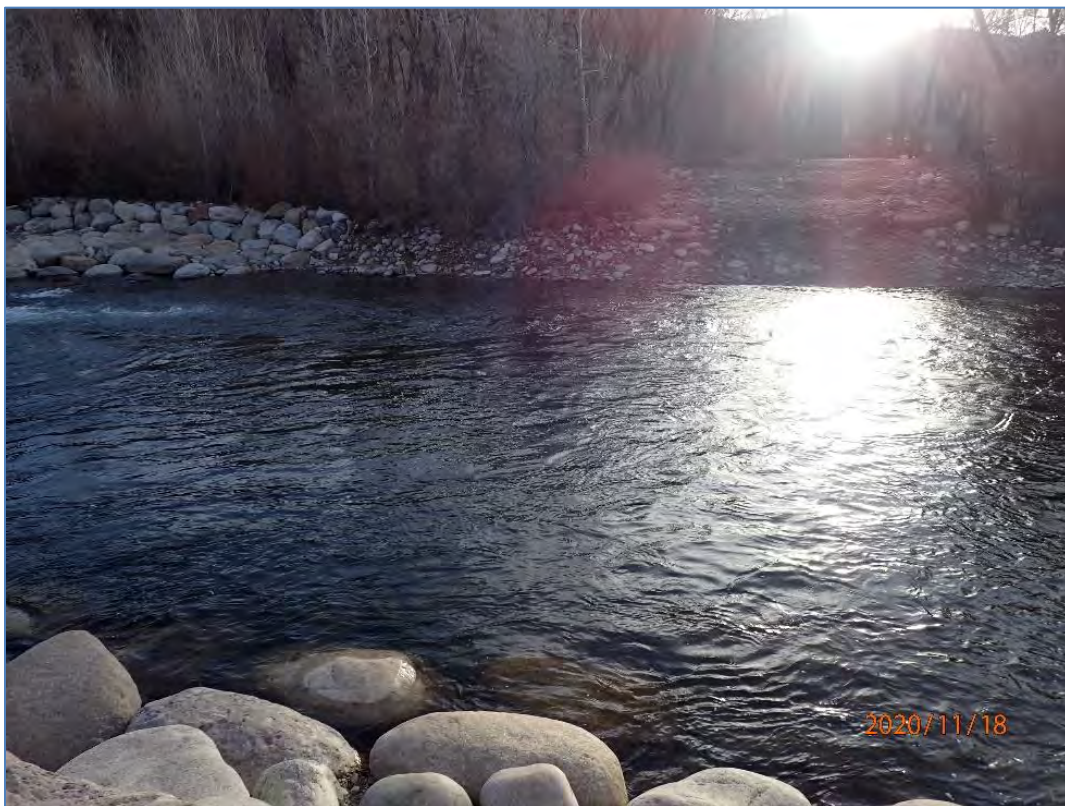


Figure 9 - Photo 8



Figure 10 - Photo 9



Figure 11 - Photo 10



Figure 12 - Photo 11

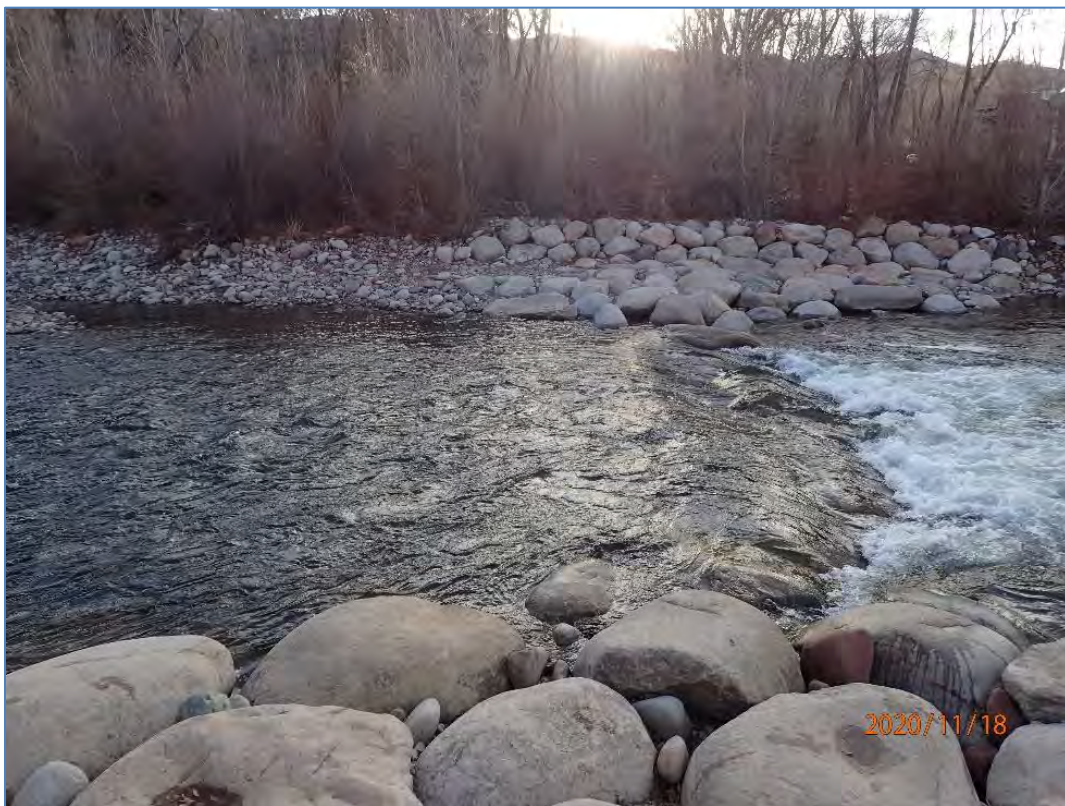


Figure 13 - Photo 12

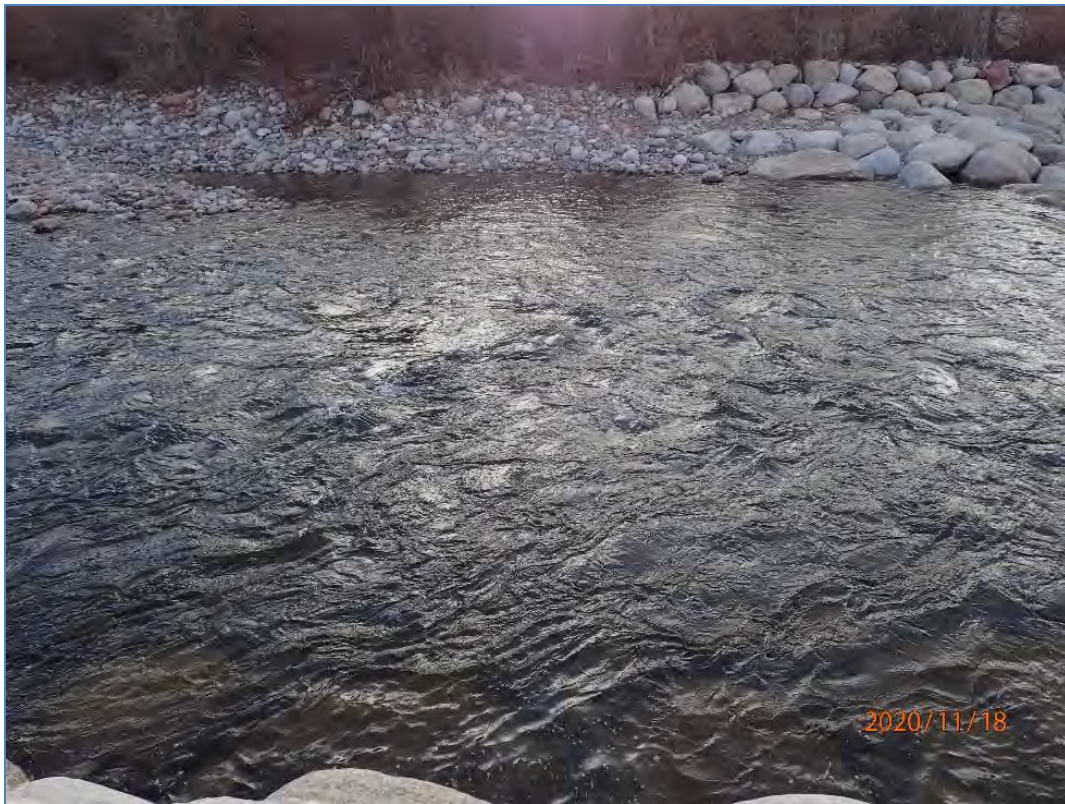


Figure 14 - Photo 13



Figure 15 - Photo 14



Figure 16 - Photo 15



Figure 17 - Photo 16



Figure 18 - Photo 17



Figure 19 - Photo 18

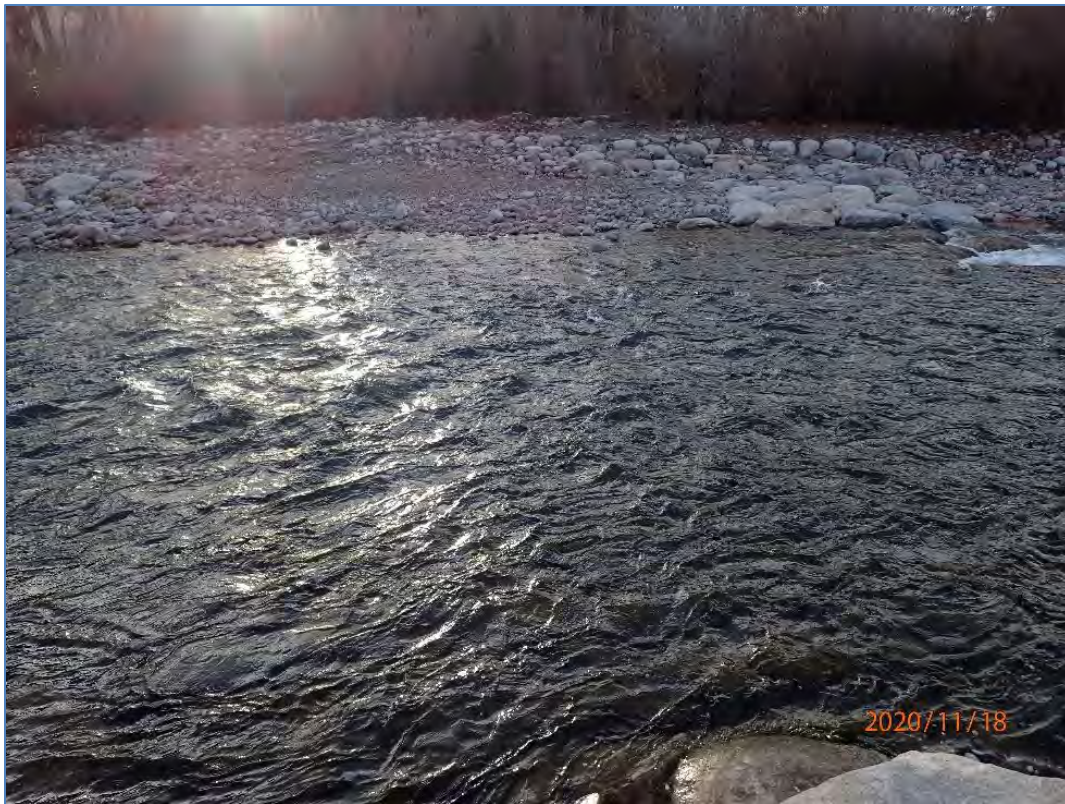


Figure 20 - Photo 19



Figure 21 - Photo 20



Figure 22 - Photo 21



Figure 23 - Photo 22



Figure 24 - Photo 23



Figure 25 - Photo 24



Figure 26 - Photo 25



Figure 27 - Photo 26



Figure 28 - Photo 27



Figure 29 - Photo 28



Figure 30 - Photo 29

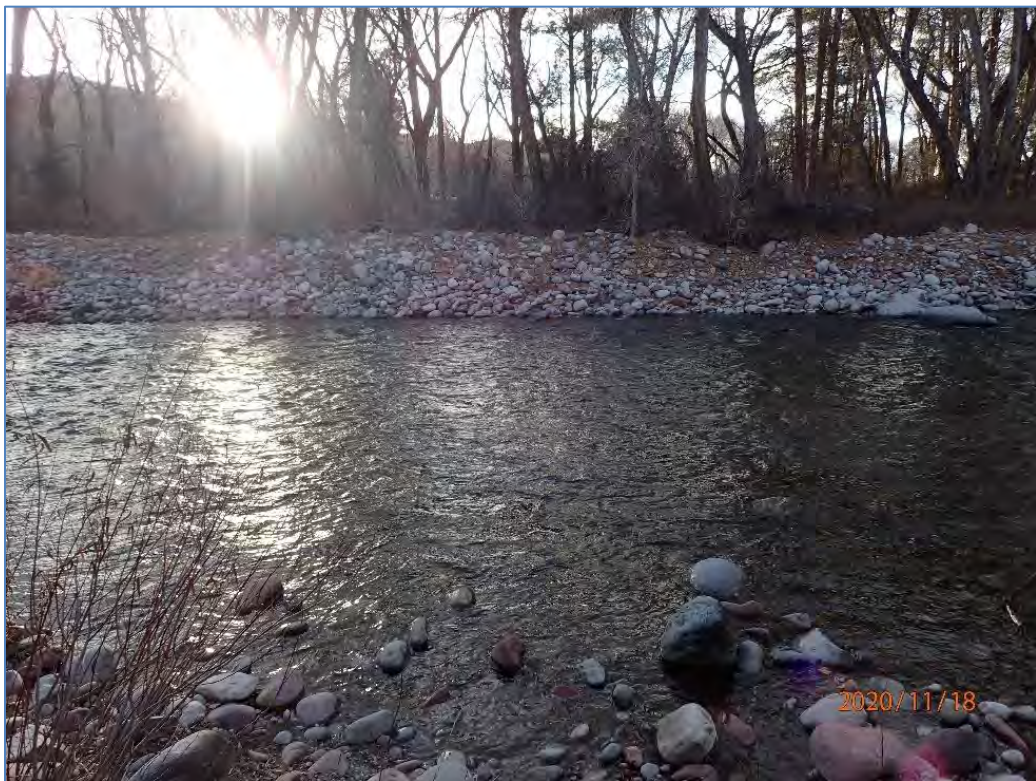


Figure 31 - Photo 30



Figure 32 - Photo 31



Figure 33 - Photo 32



Figure 34 - Photo 33



Figure 35 - Photo 34



Figure 36 - Photo 35



Figure 37 - Photo 36



Figure 38 - Photo 37



Figure 39 - Photo 38



Figure 40 - Photo 39



Figure 41 - Photo 40



Figure 42 - Photo 41



Figure 43 - Photo 42



Figure 44 - Photo 43



Figure 45 - Photo 44



Figure 46 - Photo 45



Figure 47 - Photo 46



Figure 48 - Photo 47

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APPENDIX C –CROSS SECTION MONITORING

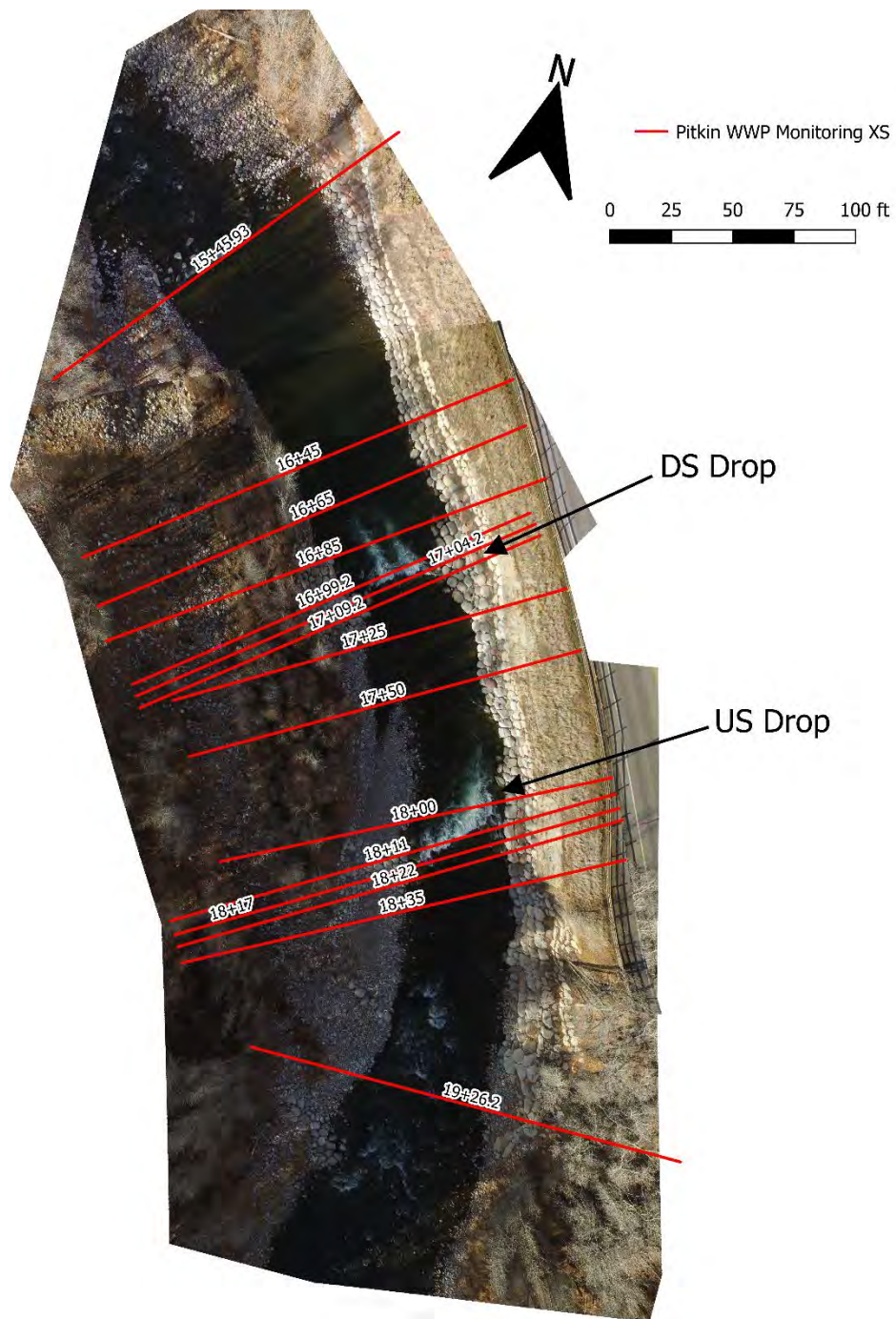


Figure 1 Cross Section Location Overview

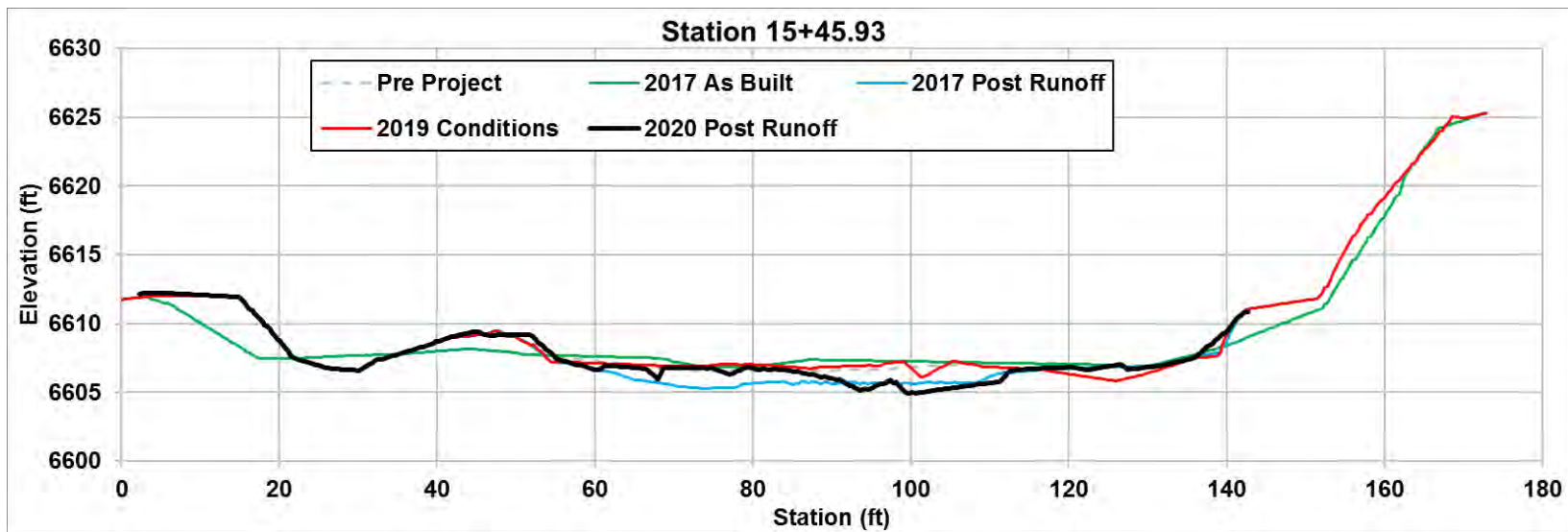


Figure 2 STA15+45.93

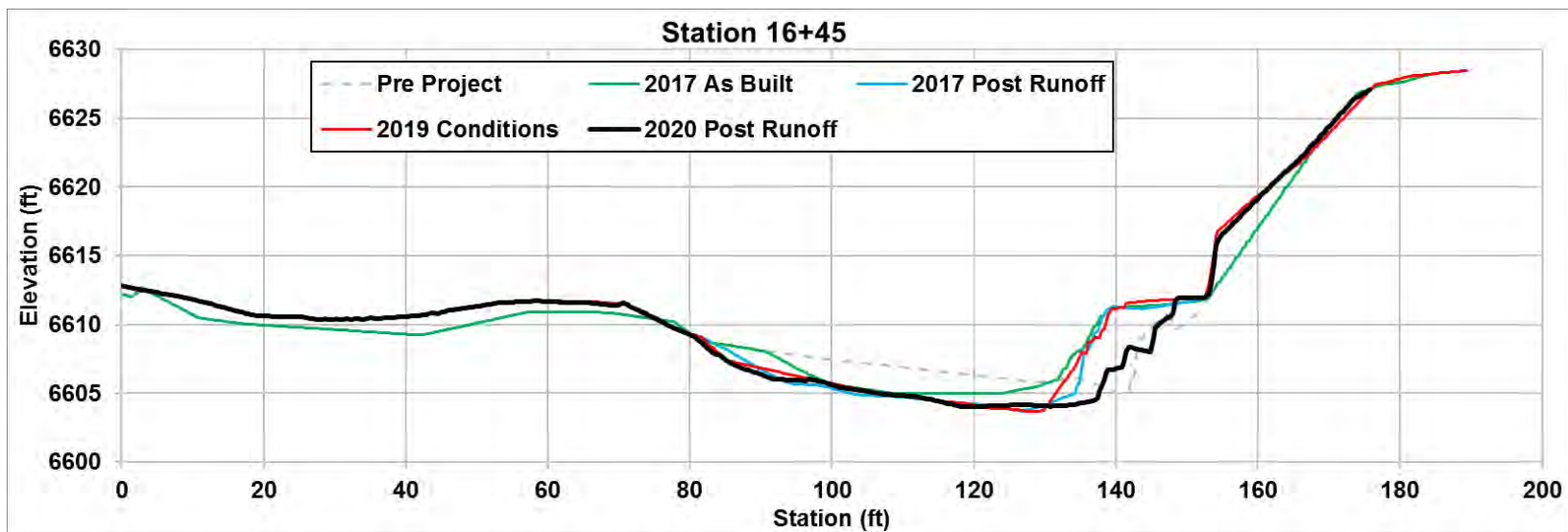


Figure 2 STA16+45

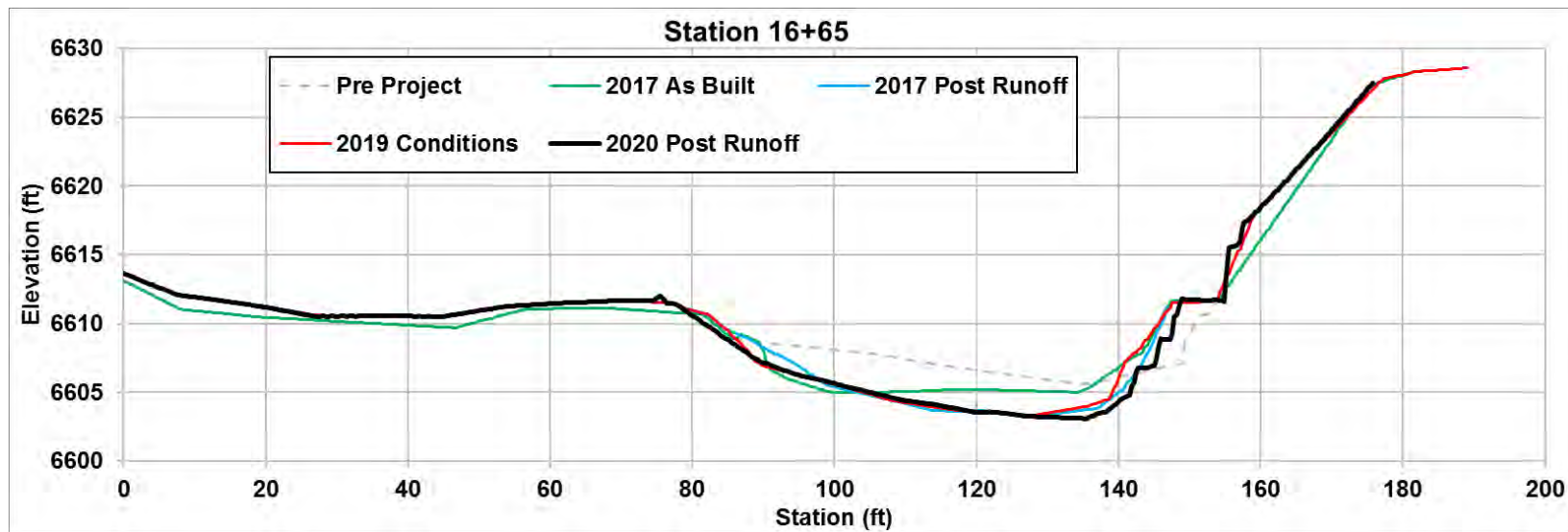


Figure 3 STA16+65

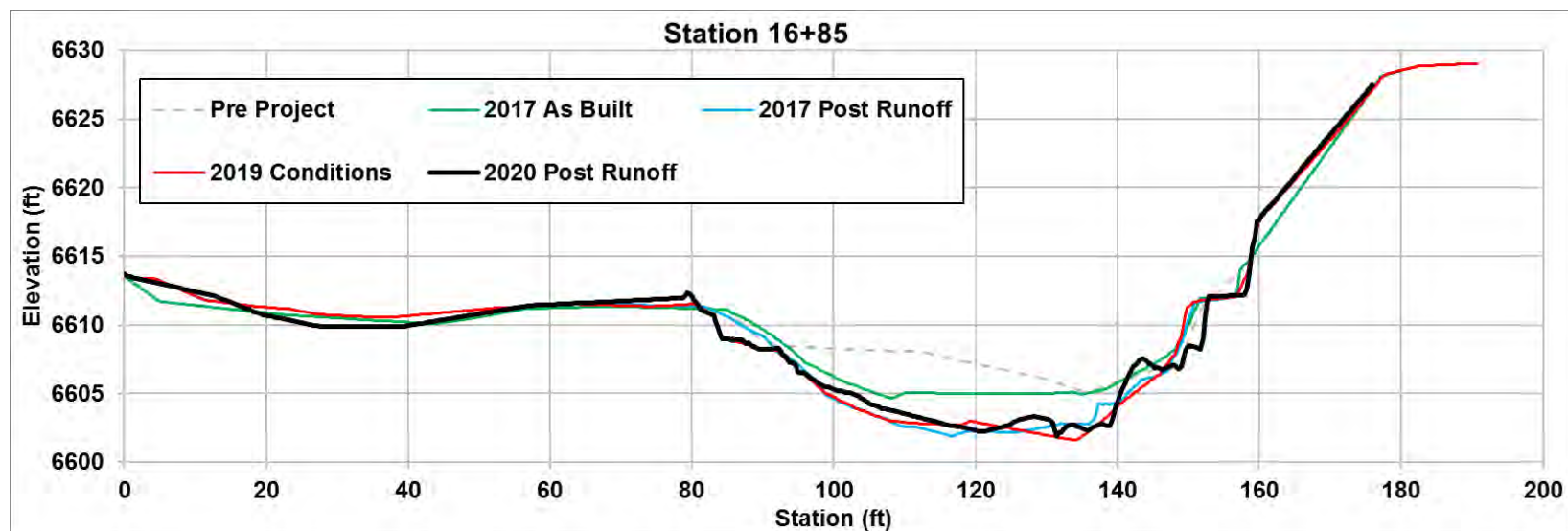


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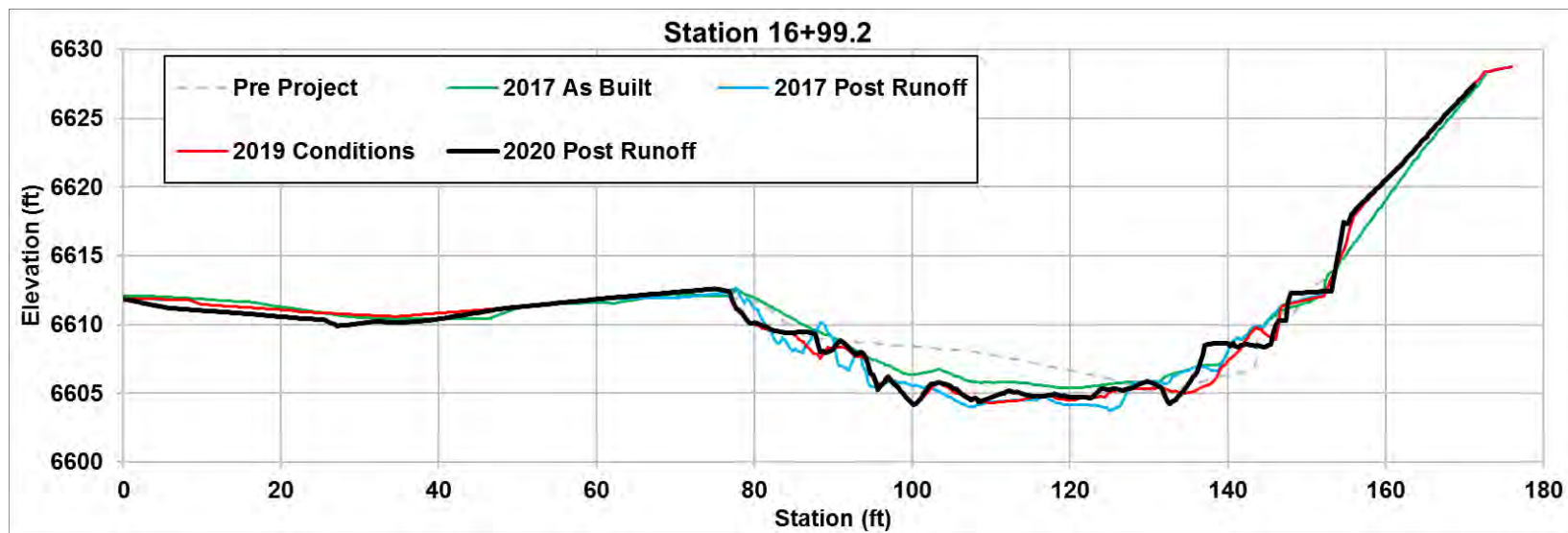


Figure 5 STA16+99.2

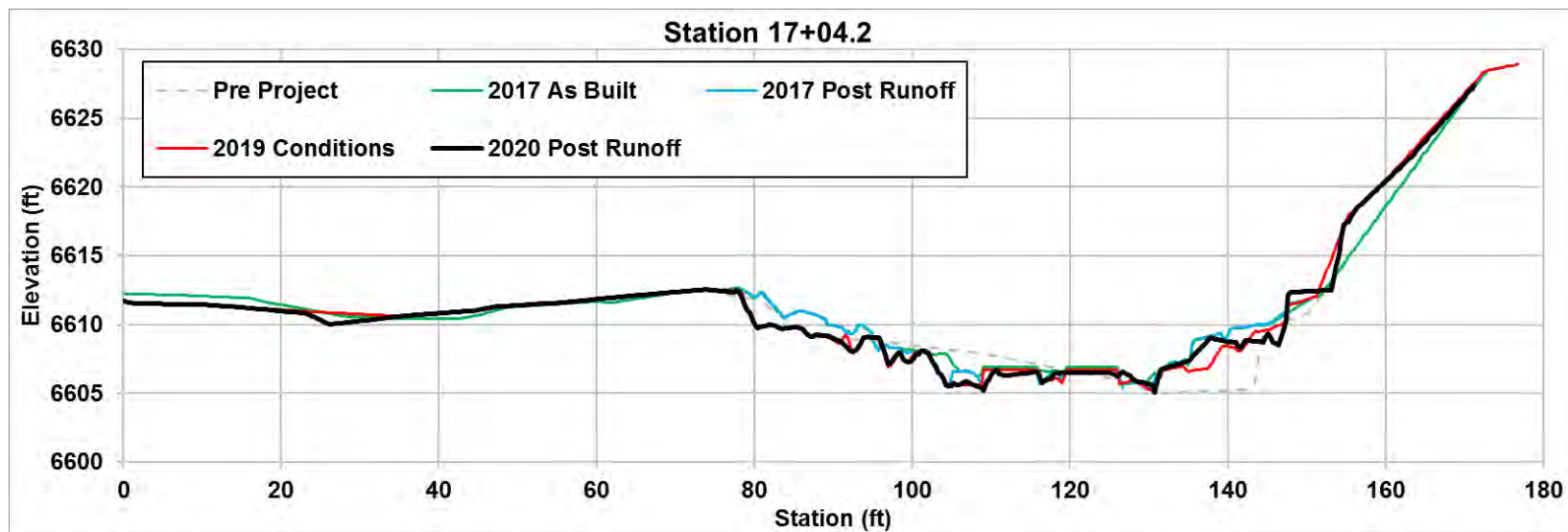


Figure 6 STA17+04.2

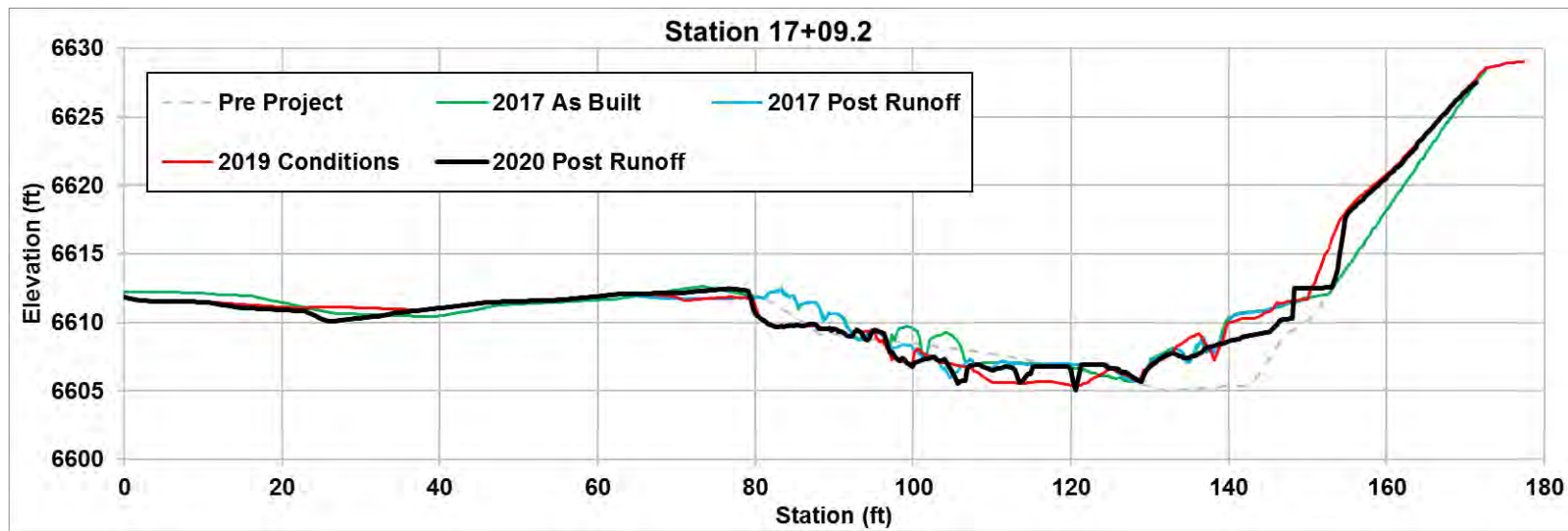


Figure 7 STA17+09.2

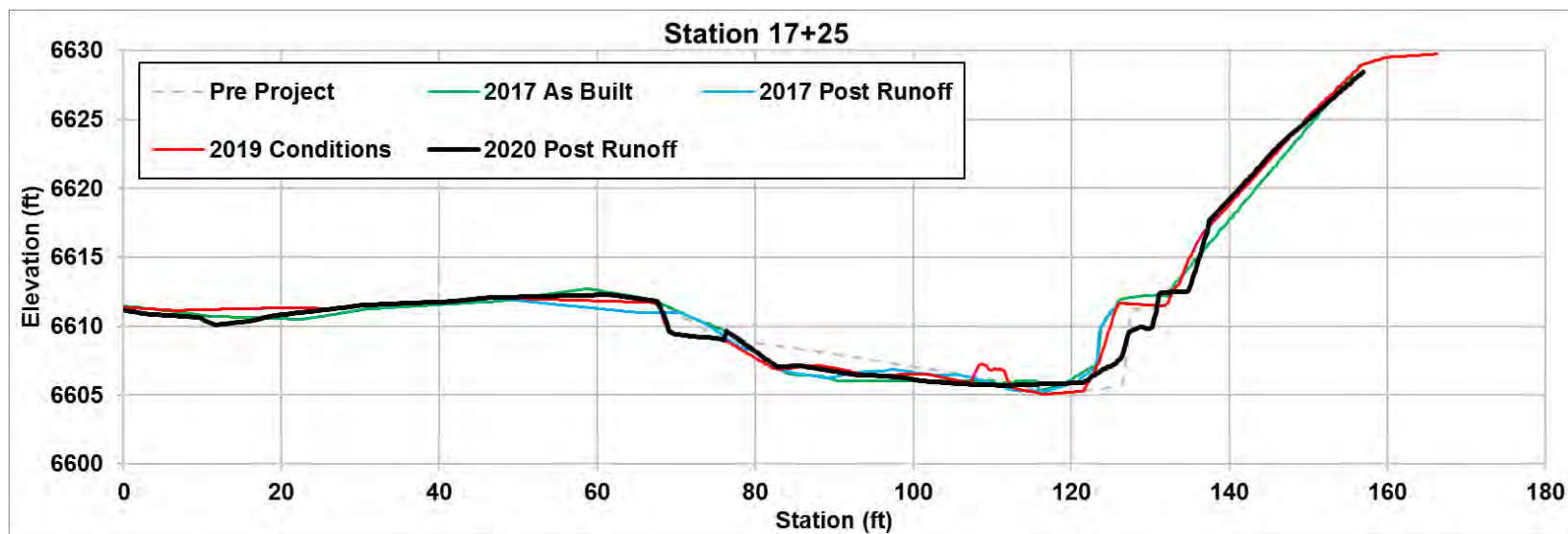


Figure 8 STA17+25

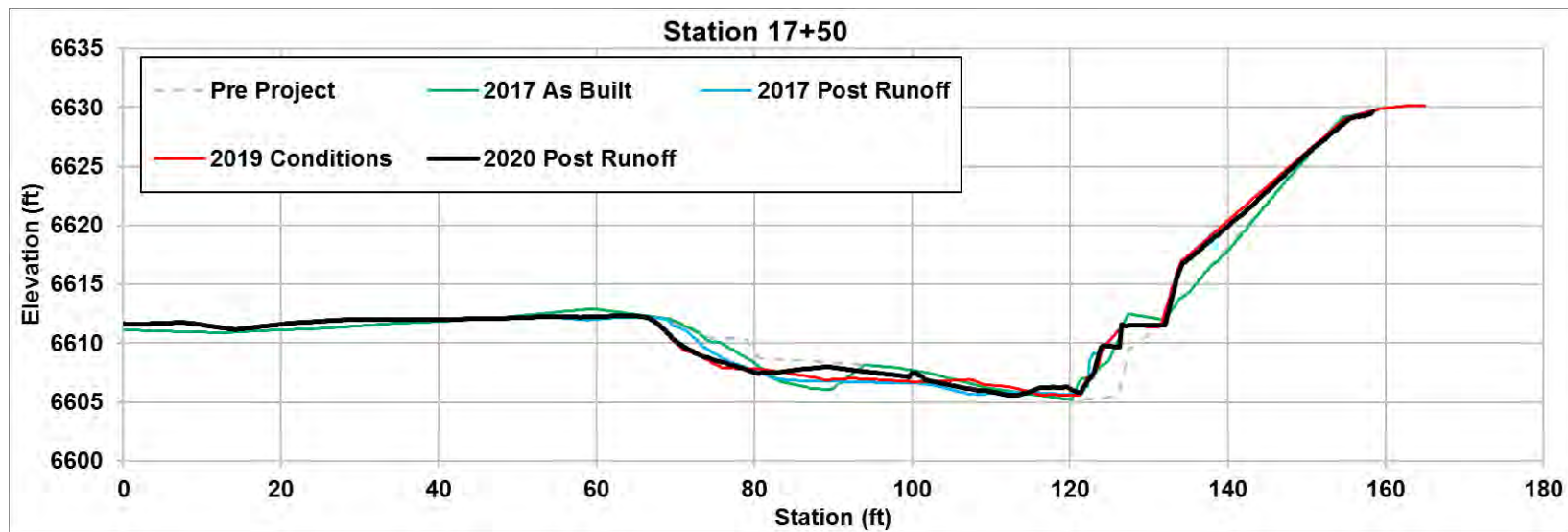


Figure 9 STA17+50

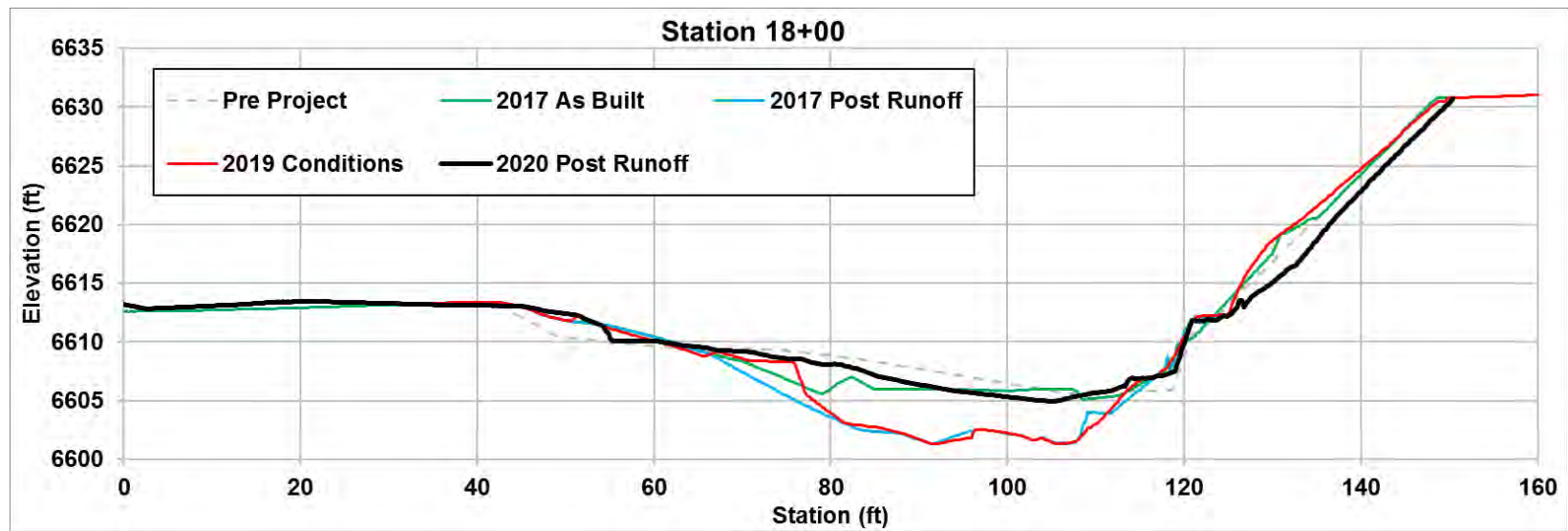


Figure 10 STA18+00

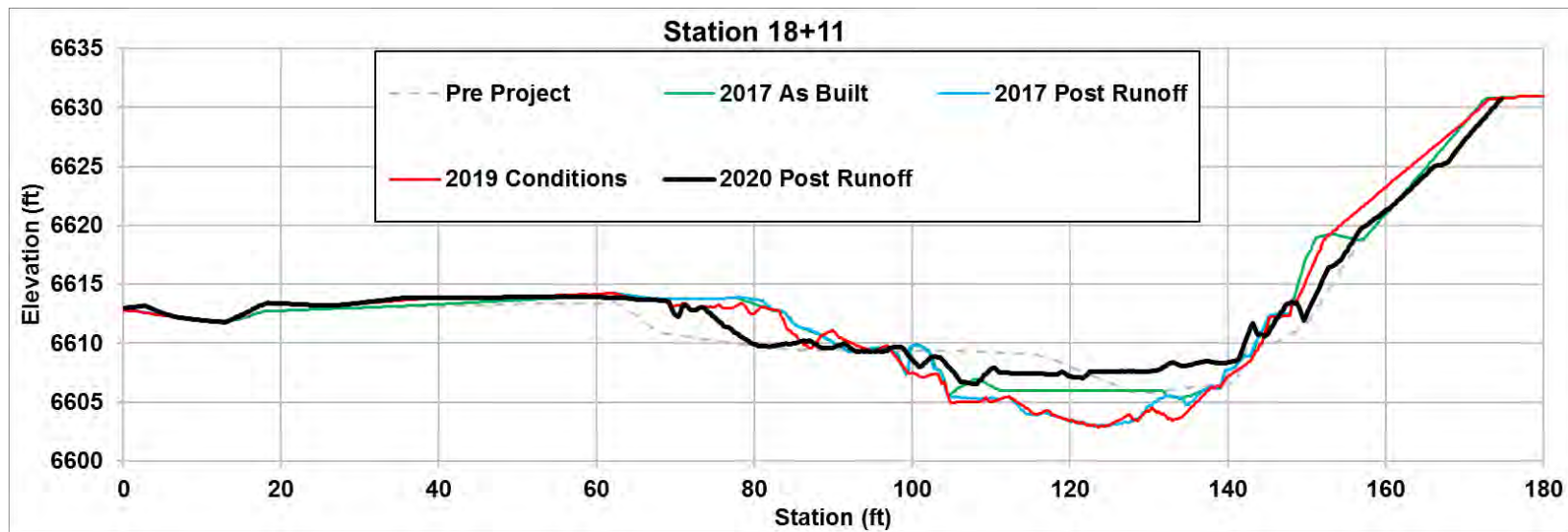


Figure 11 STA18+11

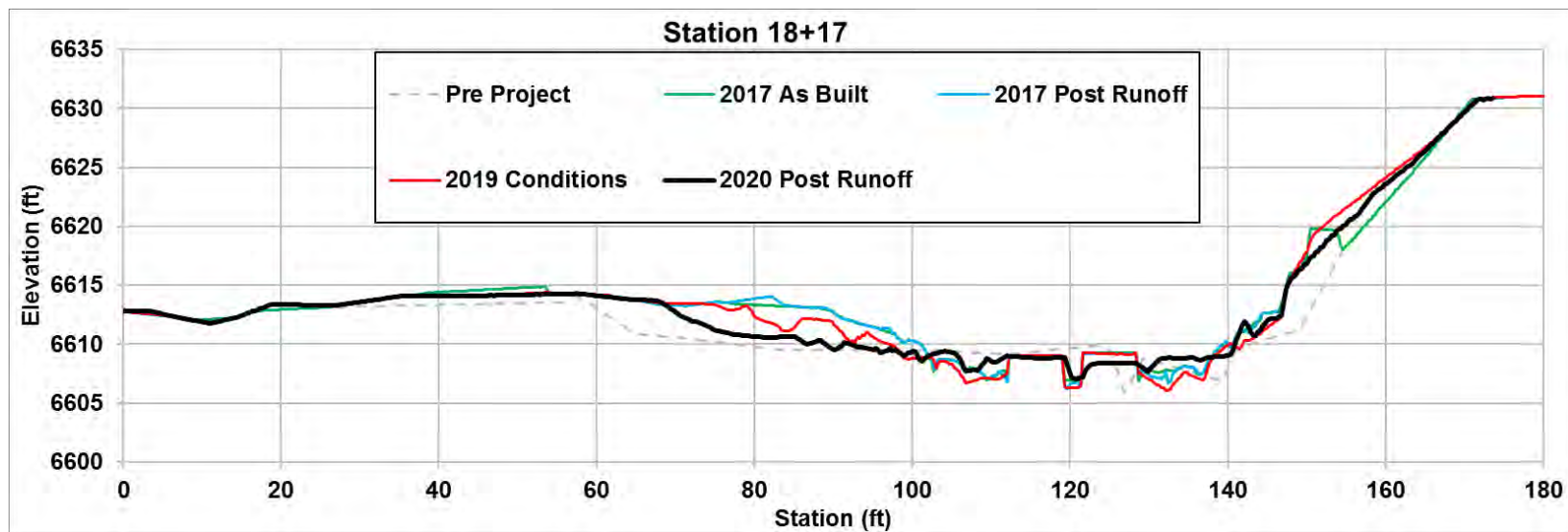


Figure 12 STA18+17

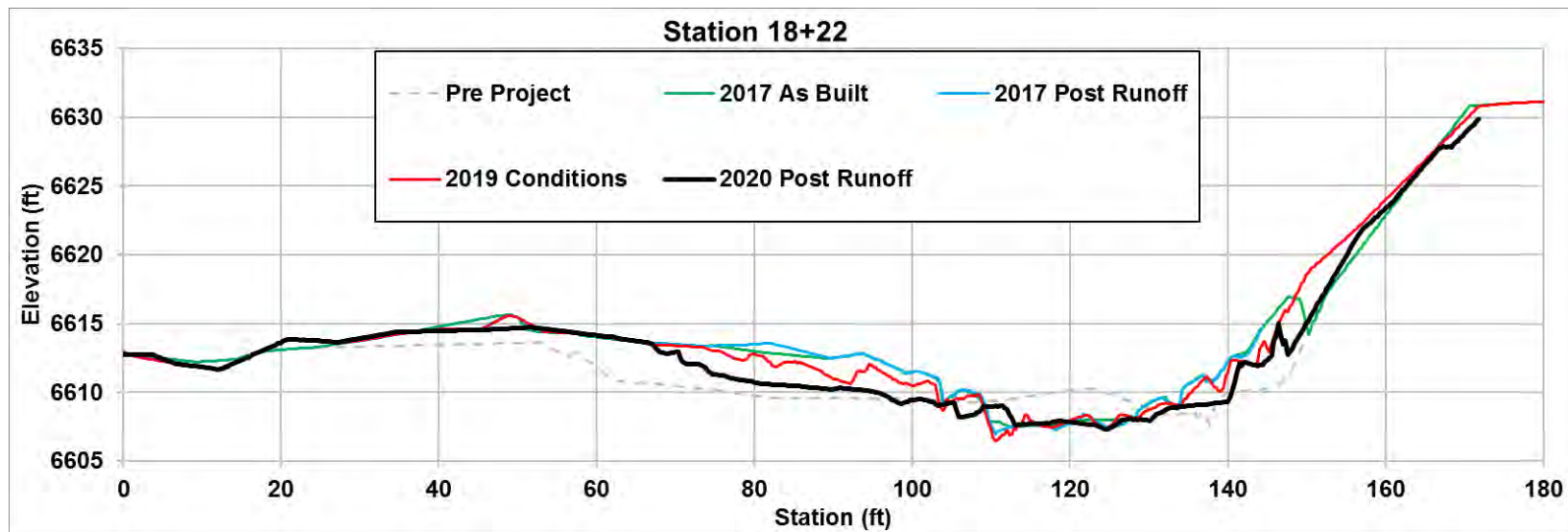


Figure 13 STA18+22

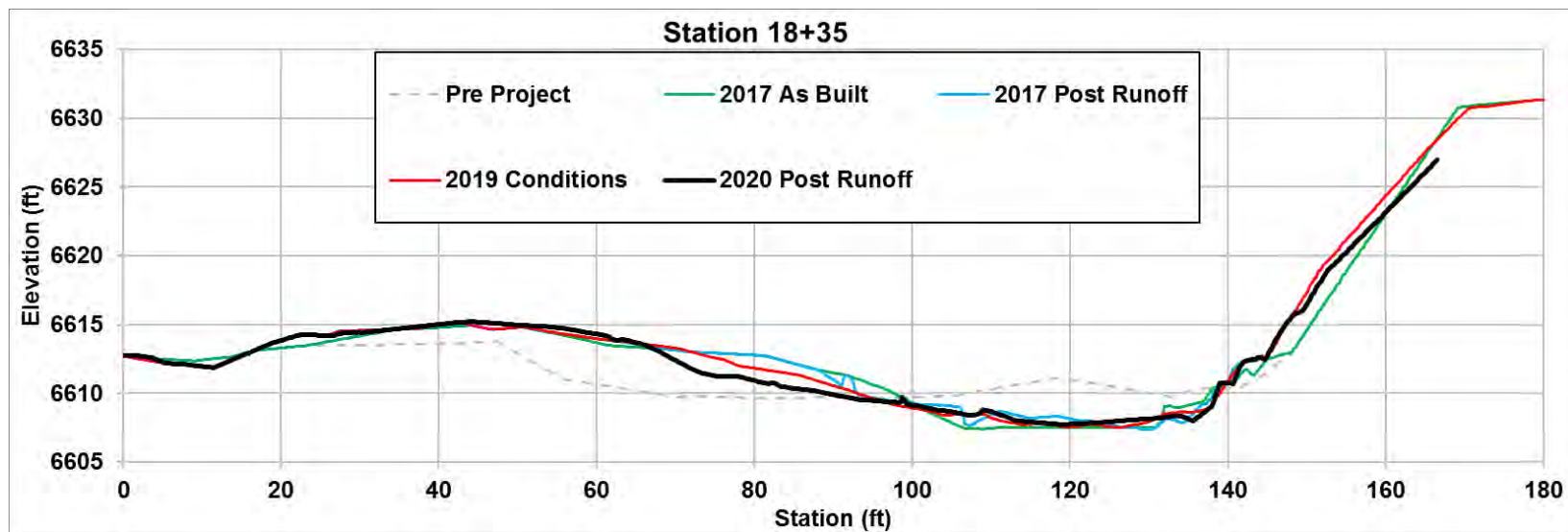


Figure 14 STA18+35

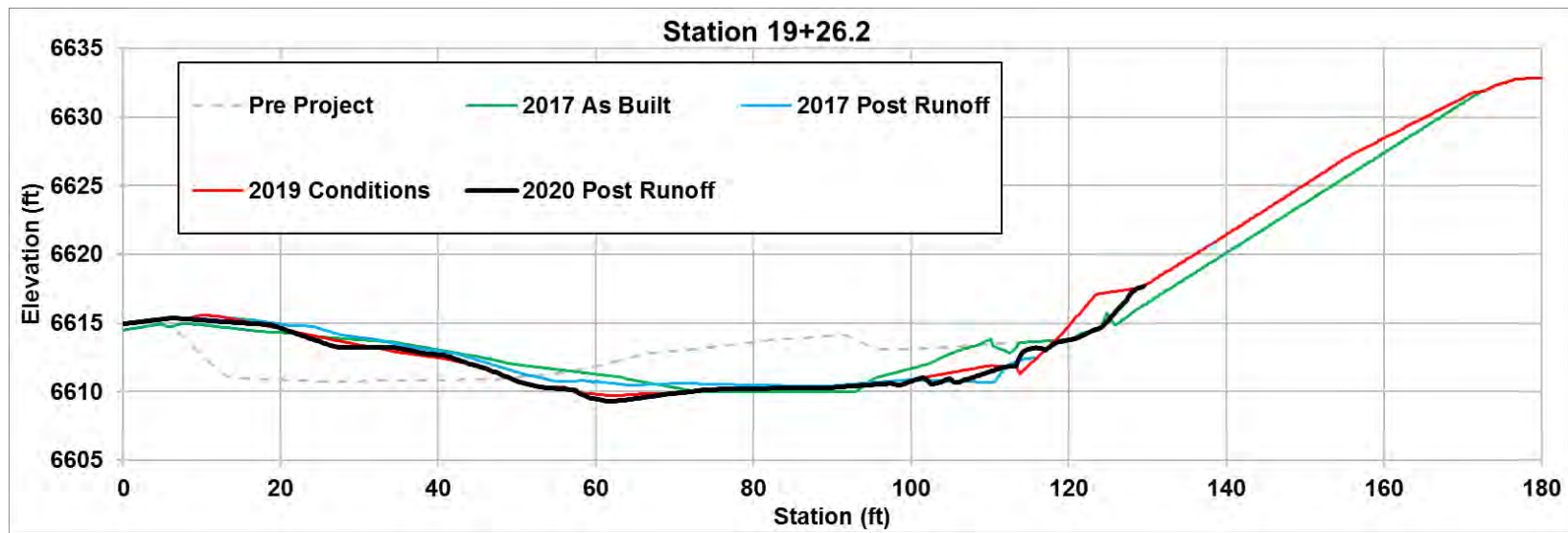


Figure 15 STA19+26.2

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APPENDIX D – TABULATED SURVEY DATA

Point #	Northing	Easting	Elevation	Description
7	1561405.1	2567485.3	6625.76	cp7
6156	1560879.4	2567733.7	6631.42	cp1 chck 10222020
6157	1561168.6	2567533.7	6612.07	cp20 cck 10222020
6158	1561168.6	2567533.7	6612.08	cp20 chck 10222020
6159	1560992.7	2567478.4	6612.31	cp102 missing
6160	1560986.3	2567593.6	6609.5	bldr
6161	1560985.6	2567593.5	6609.28	bldr
6162	1560984.8	2567595.2	6607.4	bldr
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6165	1560988.1	2567592.2	6606.85	bldr
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6168	1560992	2567595.2	6607.91	bldr
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6170	1560990	2567600.1	6606.08	bldr
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6299	1561035.4	2567611.4	6604.2	cb
6300	1561035.4	2567608.6	6603.65	cb
6301	1561031.5	2567609.7	6602.86	cb
6302	1561028.8	2567609.1	6602.97	cb
6303	1561026.4	2567610.2	6602.8	cb
6304	1561021.4	2567612.5	6602.53	cb
6305	1561021.4	2567612.5	6602.49	cb
6306	1561023.6	2567609.4	6602.16	cb
6307	1561040.6	2567614.8	6607.51	b
6308	1561039.6	2567614	6607.58	b
6309	1561038.3	2567615.8	6607.71	b
6310	1561039.1	2567618.1	6607.29	b
6311	1561036	2567618.4	6608.36	b
6312	1561036.5	2567620.1	6608.1	b
6313	1561032.8	2567620.9	6608.53	b
6314	1561033.6	2567622.7	6608.24	b
6315	1561031.4	2567624.6	6608.91	b
6316	1561030.1	2567625.1	6608.72	b
6317	1561029.1	2567624.4	6607.72	b

6318	1561031	2567621.8	6607.68	b
6319	1561031.8	2567620.3	6606.76	b
6320	1561033.8	2567618.6	6606.72	b
6321	1561034	2567617.1	6606.49	b
6322	1561032.3	2567615.3	6606.65	b
6323	1561030.5	2567613	6606.92	b
6324	1561029.8	2567615.1	6607.48	b
6325	1561028.1	2567614.5	6606.87	b
6326	1561028.2	2567616.4	6607.81	b
6327	1561029.4	2567618.1	6607.59	b
6328	1561030.8	2567617.3	6606.55	b
6329	1561026.1	2567614.3	6607.36	b
6330	1561023.8	2567616.3	6607.37	b
6331	1561023.8	2567617.7	6606.67	b
6332	1561021.7	2567617.4	6607.29	b
6333	1561018.9	2567619.3	6607.29	b
6334	1561017.6	2567620.9	6608.49	b
6335	1561015.4	2567623.4	6608.62	b
6336	1561013.2	2567624.3	6609.02	b
6337	1561010.4	2567624.5	6608.78	b
6338	1561008.7	2567626.5	6608.19	b
6339	1561006.9	2567627	6609.01	b
6340	1561005.6	2567629.6	6609.08	b
6341	1561003.2	2567628.4	6608.42	b
6342	1561002.9	2567630.7	6608.78	b
6343	1561000.3	2567632.4	6609.08	b
6344	1561001.7	2567633.2	6609.48	b
6345	1561000.5	2567634.8	6608.62	b
6346	1560998.6	2567635.6	6609.3	b
6347	1560997.6	2567638.4	6609.34	b
6348	1560995.8	2567641.8	6609.98	b
6349	1560998.5	2567641.8	6609.77	b
6350	1561001.3	2567641.2	6610.16	b
6351	1561004.8	2567640.5	6609.79	b
6352	1561007.8	2567639.7	6610.23	b
6353	1561010.1	2567636.9	6609.04	b
6354	1561012.1	2567637.1	6610.27	b
6355	1561015.5	2567634.8	6610.27	b
6356	1561017.6	2567632.4	6610.25	b
6357	1561019.4	2567631.7	6610.09	b
6358	1561020.7	2567630.2	6610.17	b

6359	1561025.3	2567628.3	6610.39	b
6360	1561025.5	2567627.3	6610.04	b
6361	1561023.6	2567628.2	6610.32	b
6362	1561021.4	2567628.9	6609.96	b
6363	1561018.9	2567629.7	6609.89	b
6364	1561015.9	2567632.7	6610.16	b
6365	1561014.4	2567633.8	6610.21	b
6366	1561012.8	2567635.1	6610.3	b
6367	1561010.4	2567636.1	6609.03	b
6368	1561013.5	2567632.6	6609.32	b
6369	1561015.4	2567632	6607.95	b
6370	1561018.2	2567631.1	6608	b
6371	1561019	2567629.2	6608.67	b
6372	1561021.6	2567628.1	6608.6	b
6373	1561024.1	2567627.2	6608.42	b
6374	1561027	2567626.8	6608.65	b
6375	1561028.1	2567625.5	6607.34	b
6376	1561030.2	2567622.9	6607.93	b
6377	1561028.9	2567621.4	6608.16	b
6378	1561028	2567620.7	6607.31	b
6379	1561026.4	2567619.8	6608.05	b
6380	1561023	2567622.3	6608.49	b
6381	1561025.1	2567625.6	6608.53	b
6382	1561025.6	2567624.2	6607.17	b
6383	1561022.2	2567625.7	6607.9	b
6384	1561020.7	2567626.5	6608.69	b
6385	1561019.6	2567624.7	6608.68	b
6386	1561020.1	2567623.7	6606.97	b
6387	1561017.8	2567623.6	6608.75	b
6388	1561016	2567625.3	6608.35	b
6389	1561017.9	2567628.9	6608.72	b
6390	1561017.5	2567627.5	6608.72	b
6391	1561016.7	2567626.6	6607.32	b
6392	1561013.5	2567626	6609.02	b
6393	1561014.7	2567627.9	6608.93	b
6394	1561015.5	2567630.3	6608.8	b
6395	1561012.7	2567632.6	6609.33	b
6396	1561011.1	2567630	6608.96	b
6397	1561012.1	2567627.3	6607.87	b
6398	1561007.4	2567629.4	6609.44	b
6399	1561008.1	2567630.6	6607.92	b

6400	1561006.8	2567632.3	6609.32	b
6401	1561008.6	2567633.1	6608.11	b
6402	1561008.8	2567633.9	6609.44	b
6403	1561008.4	2567635.8	6609.49	b
6404	1561003.4	2567634.1	6608.36	b
6405	1561002.3	2567633.5	6609.46	b
6406	1561002.2	2567638.1	6609.59	b
6407	1561004.7	2567638.5	6609.46	b
6408	1560998.9	2567639.8	6609.08	b
6409	1560993.6	2567644.3	6609.65	b
6410	1560992.4	2567642	6609.64	b
6411	1560992.5	2567641	6607.18	b
6412	1560995.7	2567639.3	6607.98	b
6413	1560993.4	2567639.3	6607.13	b
6414	1560989.4	2567643.6	6606.98	b
6415	1560989.8	2567644.3	6609.5	b
6416	1560990.5	2567645.2	6609.52	b
6417	1560987.7	2567645.7	6609.71	b
6418	1560986.9	2567644.9	6609.64	b
6419	1560987.3	2567643.8	6607.18	b
6420	1560984.5	2567643.9	6607.6	b
6421	1560985	2567646.4	6609.27	b
6422	1560985.9	2567647.5	6609.3	b
6423	1560983.4	2567647.2	6609.11	b
6424	1560982.6	2567645.6	6607.56	b
6425	1560979.7	2567647.1	6607.2	b
6426	1560980.3	2567647.9	6609.1	b
6427	1560981.3	2567649.3	6609.31	b
6428	1560978.4	2567649.1	6609.19	b
6429	1560977	2567648.2	6609.09	b
6430	1560978.8	2567647.7	6607.37	b
6431	1560977.1	2567647.2	6607.14	b
6432	1560973.4	2567648.1	6607.4	b
6433	1560972.7	2567646.8	6606.09	b
6434	1560973.7	2567649.7	6609.63	b
6435	1560975.1	2567651.8	6609.37	b
6436	1560972.6	2567652.8	6609.68	b
6437	1560970.4	2567651.4	6610.03	b
6438	1560971.5	2567653.3	6611.57	b
6439	1560971	2567650	6607.48	b
6440	1560969.2	2567649.1	6605.56	b

6441	1560967.8	2567649.4	6606	cb
6442	1560967.5	2567646.5	6606.47	cb
6443	1560966.6	2567647.1	6605.65	cb
6444	1560965.3	2567644.4	6605.47	cb
6445	1560963.5	2567642.4	6605.54	cb
6446	1560962	2567640.3	6606.04	cb
6447	1560960.1	2567638	6606.07	cb
6448	1560960.3	2567636.1	6606.08	cb
6449	1560960.3	2567632.8	6606.57	cb
6450	1560957.4	2567631.4	6607.19	cb
6451	1560959.4	2567630.8	6608.06	cb
6452	1560959	2567630.1	6607.11	cb
6453	1560960.8	2567631.6	6606.83	cb
6454	1560960.2	2567628.9	6607.15	cb
6455	1560956.7	2567626.7	6607.48	c
6456	1560956	2567623	6607.72	c
6457	1560955.2	2567620.5	6607.92	c
6458	1560953.1	2567615.6	6607.54	c
6459	1560952.7	2567613.3	6607.48	c
6460	1560952.1	2567610.6	6607.43	c
6461	1560950.8	2567607.8	6608.2	c
6462	1560949.6	2567605.2	6609.17	gcb
6463	1560948.9	2567601.9	6610.52	gcb
6464	1560935.2	2567606.4	6610.55	gcb
6465	1560937.7	2567612.6	6608.4	gcb
6466	1560938.3	2567614.2	6607.74	gcb
6467	1560939.3	2567618.2	6607.86	gcb
6468	1560940.1	2567622.2	6608.24	gcb
6469	1560940.5	2567626.4	6608.25	gcb
6470	1560941.5	2567628.4	6608.14	gcb
6471	1560941.7	2567630.1	6608.18	gcb
6472	1560942.3	2567628.5	6609.08	gcb
6473	1560943.4	2567628.2	6608.17	gcb
6474	1560943.6	2567632.6	6607.92	gc
6475	1560945.6	2567639.1	6607.04	gcb
6476	1560946.9	2567643.7	6606.64	gcb
6477	1560942.9	2567637	6607.22	gcb
6478	1560944.8	2567647.4	6606.35	gcb
6479	1560948.8	2567646.5	6606.27	gcb
6480	1560949.4	2567649	6605.97	gcb
6481	1560931.6	2567653	6605.74	gcb

6482	1560927.5	2567654.1	6605.49	gcb
6483	1560926.2	2567655.4	6605.04	gcb
6484	1560924.4	2567650.7	6606.41	gcb
6485	1560922.6	2567646.3	6606.94	cb
6486	1560923	2567643.5	6607.31	cb
6487	1560922.9	2567640.8	6607.85	cb
6488	1560922	2567640	6608.48	cb
6489	1560921.3	2567638.6	6608.02	cb
6490	1560923.2	2567635.8	6608.4	cb
6491	1560925.3	2567640.4	6607.57	cb
6492	1560925.6	2567636.8	6608.34	cb
6493	1560924.6	2567634.5	6608.29	cb
6494	1560923.1	2567630.8	6608.8	cb
6495	1560922.4	2567627.3	6608.82	cb
6496	1560921.4	2567623.4	6609.02	gc
6497	1560921.4	2567623.5	6609	gc
6498	1560919.4	2567617.9	6608.66	gc
6499	1560919.5	2567617.8	6608.65	gc
6500	1560918.5	2567615.6	6608.87	gc
6501	1560918	2567614.2	6609.77	gc
6502	1560916.8	2567608.2	6611.58	gc
6503	1560895.6	2567625.1	6609.73	gcb bar deposit crest
6504	1560903.4	2567625.2	6609.41	gcb bar deposit crest
6505	1560912.1	2567625.3	6609.3	gcb bar deposit crest
6506	1560922.5	2567624.7	6609.03	gcb bar deposit crest
6507	1560933.1	2567623.8	6608.52	gcb bar deposit crest
6508	1560943.4	2567623.1	6608.26	gcb bar deposit crest
6509	1560950.6	2567621.3	6608.26	gcb bar deposit crest
6510	1560946.5	2567622.8	6608.36	gcb bar deposit crest
6511	1560957.7	2567620.8	6607.72	gcb bar deposit crest
6512	1560964	2567620.4	6607.32	gcb bar deposit crest
6513	1560958.2	2567613.5	6607.33	gc
6514	1560948.2	2567614.3	6607.47	gc
6515	1560940.9	2567615.1	6607.77	gc
6516	1560930.9	2567616	6608.13	gc
6517	1560922.3	2567617.8	6608.54	gc
6518	1560914	2567617.9	6609.12	gc
6519	1560906	2567618.6	6609.66	gc
6520	1560898.7	2567619.9	6610.1	gc
6521	1560894.5	2567620.2	6609.97	gc
6522	1560877	2567626.5	6610.55	gc

6523	1560868.3	2567628.6	6610.98	g
6524	1560857.5	2567631.4	6611.41	g
6525	1560846.8	2567632.8	6611.97	g
6526	1560838.7	2567635.9	6612.22	g
6527	1560833.9	2567611.2	6614.64	cp101 missing
6528	1560859.2	2567603	6614.76	sc entrance crest sgcb
6529	1560854.6	2567603.5	6615.01	sc entrance crest sgcb
6530	1560847.4	2567600.9	6615.23	sc entrance crest sgcb
6531	1560840.9	2567599	6615.1	sc entrance crest sgcb
6532	1560837.9	2567597.7	6615.44	sc entrance crest sgcb
6533	1560833.3	2567595.8	6615.65	sc entrance crest sgcb
6534	1560825.6	2567603.5	6615.52	sc entrance crest sgcb
6535	1560831.8	2567607.7	6614.75	sc entrance crest sgcb
6536	1560837.6	2567609.3	6614.74	sc entrance crest sgcb
6537	1560842.7	2567610.8	6614.89	sc entrance crest sgcb
6538	1560845.2	2567612.2	6614.83	sc entrance crest sgcb
6539	1560851.6	2567615.2	6614.67	sc entrance crest sgcb
6540	1560825.2	2567632.9	6613.44	b
6541	1560823.9	2567634.3	6612.73	b
6542	1560822.3	2567636.3	6613.63	b
6543	1560820.2	2567637.9	6612.26	b
6544	1560818.5	2567639.8	6613.6	b
6545	1560818.8	2567642.8	6613.05	b
6546	1560817.2	2567645.1	6612.08	b
6547	1560817.4	2567647.1	6611.72	b
6548	1560815.4	2567646.8	6612.84	b
6549	1560813.7	2567648.4	6611.94	b
6550	1560810.8	2567649.4	6612.53	b
6551	1560809.3	2567651.4	6611.9	b
6552	1560809.3	2567651.5	6611.89	b
6553	1560813.3	2567651.3	6612.45	b
6554	1560809.7	2567654.4	6610.75	b
6555	1560805.4	2567655.9	6610.31	b
6556	1560806.2	2567654.3	6611.01	b
6557	1560804.1	2567659.3	6609.13	cb
6558	1560811	2567658.5	6609.58	cb
6559	1560815.4	2567658.9	6608.89	cb
6560	1560815.6	2567657.6	6610.41	cb
6561	1560817.4	2567656.8	6609.08	cb
6562	1560818.6	2567652.5	6609.88	cb
6563	1560820.5	2567649.2	6610.79	cb

6564	1560823.1	2567645.8	6610.86	cb
6565	1560827.9	2567648.1	6610.49	cb
6566	1560836.4	2567647.3	6610.51	cb
6567	1560827.4	2567643.8	6611.42	cb
6568	1560828.6	2567638	6612.15	cb
6569	1560817.3	2567629.6	6613.69	cb
6570	1560809.7	2567639.9	6612.61	cb
6571	1560805.4	2567648.4	6612.15	cb
6572	1560801.6	2567655.3	6610.1	cb
6573	1560770.6	2567632.2	6613.36	cb
6574	1560767	2567638.4	6612.03	cb
6575	1560763.5	2567643.8	6611.57	cb
6576	1560760.5	2567647	6611.15	cb
6577	1560757.1	2567651.1	6611.09	cb
6578	1560752	2567655	6610.12	cb
6579	1560748.7	2567657	6609.97	cb
6580	1560743.8	2567658.1	6610.44	cb
6581	1560737.8	2567658.9	6610.47	cb
6582	1560731.8	2567655.7	6611.16	cb
6583	1560729.2	2567649.9	6611.92	cb
6584	1560731	2567644.4	6612.34	cb
6585	1560734.6	2567640.3	6612.97	cb
6586	1560742.2	2567635.5	6613.49	cb
6587	1560745.8	2567631.2	6614.25	cb
6588	1560749	2567628	6614.02	cb
6589	1560752.6	2567624.1	6614.28	cb
6590	1560757.1	2567619.9	6615.05	cb
6591	1560762.9	2567623.6	6614.97	b
6592	1560759.9	2567626.9	6615.69	b
6593	1560762.6	2567628.1	6614.38	b
6594	1560763	2567630.3	6613.45	b
6595	1560759.9	2567630.1	6613.66	b
6596	1560755	2567627.6	6614.4	b
6597	1560752.7	2567631.3	6614.43	b
6598	1560748	2567631.6	6614.12	b
6599	1560750.1	2567635.1	6614.79	b
6600	1560752.6	2567637.7	6614.72	b
6601	1560754.2	2567636.3	6613.61	b
6602	1560756.2	2567633.2	6614.43	b
6603	1560757.9	2567634.9	6613.54	b
6604	1560758.3	2567636.8	6612.86	b

6605	1560758.4	2567638.6	6612.76	b
6606	1560760.4	2567640.4	6612.24	b
6607	1560757.1	2567640.8	6612.79	b
6608	1560754.3	2567640.4	6613.54	b
6609	1560755.9	2567643.7	6612.59	b
6610	1560753	2567644.7	6613.29	b
6611	1560750.1	2567638.5	6614.01	b
6612	1560747.6	2567638.6	6614.27	b
6613	1560747.2	2567641.6	6613.92	b
6614	1560750	2567644.2	6613.18	b
6615	1560746.8	2567645.4	6613.99	b
6616	1560746.8	2567645.5	6614.12	b
6617	1560748.8	2567647.9	6611.03	b
6618	1560750.4	2567649.7	6613.06	b
6619	1560753.5	2567649.4	6612.61	b
6620	1560748.5	2567652	6612.01	b
6621	1560746.1	2567648.3	6613.16	b
6622	1560746.7	2567645.5	6614.12	b
6623	1560744	2567647.7	6613.84	b
6624	1560743.3	2567644.1	6613.84	b
6625	1560740.2	2567647.2	6613.24	b
6626	1560738.4	2567649.5	6612.72	b
6627	1560741.5	2567649.8	6612.73	b
6628	1560741.9	2567652	6611.92	b
6629	1560741.6	2567654.1	6611.81	b
6630	1560738.3	2567653.3	6612.56	b
6631	1560738.2	2567656.4	6611.45	b
6632	1560739.8	2567654.3	6612.35	b
6633	1560734.3	2567653.8	6612.63	b
6634	1560732	2567652.7	6612.9	b
6635	1560731.9	2567650.3	6613.03	b
6636	1560671.5	2567628.8	6614.45	b
6637	1560669	2567627	6615.13	b
6638	1560666.5	2567625.8	6615.53	b
6639	1560667.9	2567623.5	6615.38	b
6640	1561155.2	2567533.9	6608.02	gc
6641	1561150.8	2567530.5	6606.85	gc
6642	1561148.4	2567528.2	6606.35	gc
6643	1561144.1	2567525.5	6606.29	gc
6644	1561143	2567525.1	6606.91	b
6645	1561140.3	2567523.9	6607.2	b

6646	1561140.4	2567522.1	6607.15	b
6647	1561140.5	2567519.4	6607.3	b
6648	1561140.4	2567517.7	6606.58	b
6649	1561159.8	2567520.7	6607.31	b
6650	1561162	2567522.2	6608.22	b
6651	1561163.3	2567524.5	6609.13	b
6652	1561160	2567521.6	6608.99	b
6653	1561158.8	2567520.5	6607.14	b
6654	1561153.6	2567517.6	6607.24	b
6655	1561147.2	2567513.9	6607.05	b
6656	1561144.1	2567514.6	6607.44	b
6657	1561140.5	2567515.7	6606.68	b
6658	1561136.5	2567516.4	6607.02	b
6659	1561133.3	2567519.3	6606.94	b
6660	1561130.7	2567519.3	6606.64	b
6661	1561129.6	2567518.3	6605.66	b
6662	1561126.3	2567514.5	6606.01	b
6663	1561125.8	2567514	6605.5	b
6664	1561124.2	2567513.5	6606.37	b
6665	1561122.2	2567512.3	6606.14	b
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6667	1561118.9	2567512.1	6605.88	b
6668	1561116.8	2567510.8	6605.61	b
6669	1561116.5	2567509.8	6605.04	b
6670	1561114.5	2567507.7	6606.01	b
6671	1561112.2	2567508.3	6605.62	b
6672	1561112	2567508.3	6605.64	b
6673	1561109.9	2567507.6	6605.64	b
6674	1561109.1	2567506.4	6605.73	b
6675	1561108.9	2567503.5	6606.66	b
6676	1561108	2567502	6606.44	b
6677	1561107.1	2567500.2	6607.08	b
6678	1561104.2	2567500.6	6606.81	b
6679	1561103.5	2567499.1	6606.26	b
6680	1561102.5	2567497.5	6606.78	b
6681	1561101.2	2567495.2	6606.33	b
6682	1561099.3	2567493.4	6606.88	b
6683	1561097.3	2567493	6606.85	b
6684	1561096.5	2567492.8	6605.89	b
6685	1561095.4	2567491.9	6606.74	b
6686	1561093.5	2567490.4	6606.87	b

6687	1561091	2567489	6606.95	b
6688	1561090.3	2567488.6	6606.57	b
6689	1561087.2	2567487	6606.95	b
6690	1561085.2	2567486	6607.97	b
6691	1561083.8	2567484.4	6609.22	b
6692	1561080.1	2567481.8	6609.18	c wils
6693	1561077.8	2567479.7	6609.74	c wils
6694	1561074.6	2567484.7	6609.97	c wils
6695	1561070.5	2567485.1	6610.41	c wils
6696	1561092.2	2567458.5	6606.07	sc thaleg cb
6697	1561084.6	2567460.6	6606.13	sc thaleg cb
6698	1561073.6	2567465.1	6606.31	sc thaleg cb
6699	1561062.2	2567471.7	6606.69	sc thaleg cb
6700	1561041.3	2567483.5	6607.7	sc thaleg cb
6701	1561028.9	2567489	6608.31	sc thaleg cb
6702	1561017.6	2567495	6610.41	sc thaleg cb
6703	1561002.8	2567502.7	6610.63	sc thaleg cb
6704	1560985.9	2567514.3	6610.17	sc thaleg cb
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6706	1560954.7	2567532.6	6609.77	sc thaleg cb
6707	1560942.4	2567537.5	6610.04	sc thaleg cb
6708	1560942.3	2567537.5	6610.02	sc thaleg cb
6709	1560927.2	2567545.6	6610.15	sc thaleg cb
6710	1560919.2	2567548.7	6610.92	sc thaleg cb
6711	1560900	2567557.9	6611.48	sc thaleg cb
6712	1560885.6	2567566	6612.14	sc thaleg cb
6713	1560867.7	2567580.5	6613.56	sc thaleg cb
6714	1560854.8	2567593.1	6614.4	sc thaleg cb
6715	1560664.5	2567623.6	6616.68	b
6716	1560666.4	2567631.6	6612.56	b
6717	1560854.1	2567713.2	6616.6	cp100 chch 10222020
6718	1560879.4	2567733.7	6631.48	cp1 chckin 10232020
6719	1561168.6	2567533.7	6612.11	cp20 chckin 10232020
6720	1561138.2	2567558.7	6611.65	b
6721	1561134	2567555.4	6611.11	b
6722	1561132.8	2567554.4	6610.21	b
6723	1561132	2567553.6	6610.14	b
6724	1561131.4	2567553.2	6608.53	b
6725	1561130.2	2567551.9	6607.83	b
6726	1561130.2	2567552	6607.82	sgc
6727	1561127.4	2567548.5	6606.96	sgc

6728	1561124.3	2567546.3	6606.86	cb
6729	1561122	2567544.2	6606.4	cb
6730	1561121.1	2567543.7	6607.11	cb
6731	1561120	2567542.3	6606.13	cb
6732	1561119.3	2567541.1	6606.82	cb
6733	1561117.8	2567540.8	6606.3	cb
6734	1561117.5	2567539.6	6607.21	cb
6735	1561116	2567540.3	6606.09	cb
6736	1561118	2567537.5	6605.47	cb
6737	1561114.3	2567537.9	6604.89	cb
6738	1561109	2567534.3	6605.04	cb
6739	1561103.1	2567529.9	6604.77	cb
6740	1561100	2567527.2	6604.52	cb
6741	1561096.1	2567523.4	6604.74	cb
6742	1561087.8	2567516.2	6605.5	cb
6743	1561081.8	2567510.7	6605.38	cb
6744	1561081.9	2567508.3	6605.65	cb
6745	1561079.7	2567510.9	6605.92	cb
6746	1561079.4	2567508	6605.97	gcb
6747	1561075.6	2567504.7	6606.52	gcb
6748	1561072.9	2567502.8	6607.81	gcb
6749	1561069.4	2567498.8	6608.82	gcb
6750	1561066.6	2567496.6	6609.33	gcb
6751	1561080	2567500.7	6606.65	gcb
6752	1561083.7	2567499.1	6606.03	gcb
6753	1561084.2	2567503.7	6606.07	gcb
6754	1561089.3	2567504	6605.89	gcb
6755	1561089.1	2567507.5	6605.57	gcb
6756	1561088	2567505.1	6607.14	b
6757	1561086	2567503.6	6606.69	b
6758	1561081.2	2567502	6607.32	b
6759	1561083.1	2567504.4	6606.96	b
6760	1561081	2567509.4	6607.01	b
6761	1561093.1	2567509.9	6606.52	b
6762	1561094.4	2567511.3	6605.33	cb
6763	1561047.7	2567519.6	6609.82	cb
6764	1561055.9	2567527.7	6606.49	gc
6765	1561059.4	2567531.2	6606.02	gcb
6766	1561062.9	2567535.2	6605.49	gcb
6767	1561066.5	2567540.7	6605	gcb
6768	1561070.8	2567546.3	6604.69	gcb

6769	1561075	2567551.2	6604.35	gcb
6770	1561079.9	2567556.9	6604.65	gcb
6771	1561084.1	2567562.9	6605.08	cb
6772	1561088	2567568	6605.47	cb
6773	1561089.9	2567569.7	6606.19	cb
6774	1561093.1	2567572.5	6606.64	cb
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6777	1561096.4	2567575	6609.83	b
6778	1561097.3	2567576.4	6609.72	b
6779	1561097.7	2567577.2	6611.44	b
6780	1561101	2567581.4	6611.98	b
6781	1561101.8	2567582.2	6614.45	b
6782	1561146.8	2567554.7	6611.77	b
6783	1561141.4	2567551.1	6611.41	b
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6785	1561127.4	2567565.2	6611.35	b
6786	1561114.4	2567565.9	6611.42	b
6787	1561115.9	2567571.4	6611.66	b
6788	1561102.6	2567573.4	6611.5	b
6789	1561103.9	2567579.7	6611.94	b
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6793	1561080.1	2567594.4	6612.43	b
6794	1561070	2567596.5	6611.93	b
6795	1561070.8	2567602	6612.27	b
6796	1561059.3	2567602.6	6611.8	b
6797	1561060.7	2567608.8	6611.91	b
6798	1561050.9	2567608.6	6611.85	b
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6803	1561028.9	2567632.8	6612.41	b
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6805	1561017.8	2567633.1	6612.36	b
6806	1561015.6	2567640.7	6612.61	b
6807	1561009.5	2567639.9	6612.73	b
6808	1561006.6	2567645.1	6613.05	b
6809	1561000.1	2567642.7	6612.64	b

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6817	1560962.7	2567658.5	6611.19	b
6818	1560960.2	2567665.3	6611.41	b
6819	1560983.9	2567654.7	6612.35	b
6820	1560967.2	2567666.3	6617.02	b mat
6821	1560967.2	2567666.3	6616.98	b veg
6822	1560979.2	2567658.2	6616.7	b
6823	1560992.2	2567659.7	6621.26	veg
6824	1560994.5	2567651.3	6617.31	b
6825	1560999.4	2567649.8	6617.66	b
6826	1561021	2567639.4	6617.88	b
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6829	1561043.6	2567614.5	6609.61	b
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6834	1561036.1	2567608.2	6604.15	b
6835	1561034.5	2567605.9	6602.58	b
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6850	1561063.8	2567596.7	6609.75	b

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6953	1561047.3	2567577.5	6603.95	cb
6954	1561042	2567573.8	6604.76	cb
6955	1561037.4	2567568.2	6605	cb
6956	1561033.3	2567564.1	6605.37	gc
6957	1561029.9	2567560.9	6605.82	sg
6958	1561027.9	2567559.2	6605.97	sg
6959	1561026.8	2567557.6	6606	gc
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6961	1561022.7	2567554	6607.34	sgc
6962	1561020.5	2567551	6609.02	sgc
6963	1561028.2	2567528.7	6611.32	sgc
6964	1561031.5	2567532.7	6610	sgc
6965	1561035	2567536.1	6608.97	sgc
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6969	1561047.2	2567556.8	6605.19	sgc
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6972	1561056.5	2567570.3	6604.14	cb
6973	1561061.5	2567575.7	6604.3	cb

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6976	1561066.9	2567584	6605.58	b
6977	1561061.1	2567589	6604.51	b
6978	1561058.8	2567587.1	6604.19	b
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6980	1561053.9	2567581.3	6604.16	b
6981	1561064.6	2567587.3	6604.63	b
6982	1561062	2567584.4	6604.56	b
6983	1561060.5	2567581.9	6604.31	b
6984	1561066.9	2567581.5	6604.03	b
6985	1561070.5	2567580	6606.09	b
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6992	1561089.3	2567566.9	6605.48	cb
6993	1561095	2567567.6	6606.23	cb
6994	1561098.5	2567569.6	6606.93	cb
6995	1561112.6	2567561	6607.2	cb
6996	1561086.1	2567577.8	6606.48	b
6997	1561084.8	2567575.6	6605.85	b
6998	1561083	2567573.1	6605.95	b
6999	1561079.7	2567569.3	6605.13	b
7000	1561071.6	2567564.7	6604.59	cb
7001	1561063.5	2567569.4	6604.42	cb
7002	1561074.9	2567573.5	6604.84	cb
7003	1561079.9	2567578.7	6605.39	cb
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7005	1560995.1	2567631.7	6606.39	b
7006	1560992.4	2567629.3	6605.81	cb
7007	1560988	2567626.5	6605.67	cb
7008	1560988.3	2567623.4	6605.95	cb
7009	1560986.2	2567619.7	6605.79	cb
7010	1560984.6	2567615.1	6605.95	cb
7011	1560980.5	2567609.4	6606.44	cb
7012	1560985.1	2567611.3	6606.04	cb
7013	1560983	2567604.6	6606.17	cb
7014	1560989.6	2567610	6605.58	cb

7015	1560988.4	2567604.6	6605.92	cb
7016	1560992.2	2567606.9	6606.83	block
7017	1560989.9	2567604.7	6606.38	block
7018	1560989.5	2567603.1	6607.01	block
7019	1560992.9	2567607.7	6606.76	block
7020	1560990.1	2567613.1	6605.81	cb
7021	1560990.9	2567616.1	6605.63	cb
7022	1560992	2567621.5	6605.86	cb
7023	1560992.3	2567612.5	6605.79	cb
7024	1560994.3	2567609.2	6605.74	block
7025	1560996.6	2567611.8	6606.74	block
7026	1560980.1	2567610.5	6606.28	c
7027	1560974	2567604.4	6607.12	gc
7028	1560965.2	2567616.8	6607.19	gc
7029	1560956.7	2567619.4	6607.81	gcb deposit
7030	1560943.4	2567616.8	6607.68	gcb deposit
7031	1560926.6	2567617.1	6608.22	gcb deposit
7032	1560928.2	2567623.7	6608.72	gcb deposit
7033	1560930.2	2567631.1	6608.61	gcb deposit
7034	1560931.9	2567635.9	6608.25	gcb deposit
7035	1560931.1	2567638.5	6607.47	gcb deposit
7036	1560932.4	2567643.7	6607.17	gcb deposit
7037	1560918	2567647.8	6606.87	gcb deposit
7038	1560918	2567650.8	6606	gcb deposit
7039	1560912.5	2567649.3	6605.83	cb
7040	1560908	2567649.1	6606.05	cb
7041	1560907.4	2567651.8	6606.54	b
7042	1560906.1	2567647.6	6606.77	b
7043	1560903.7	2567648.7	6607.07	b
7044	1560905.5	2567648.4	6605.53	b
7045	1560904.6	2567645.6	6607.18	b
7046	1560902	2567643.2	6607.18	b
7047	1560901.1	2567641.2	6607.99	b
7048	1560901.1	2567638.9	6608.06	b
7049	1560901.6	2567637.7	6607.9	b
7050	1560900.9	2567634.9	6608.72	b
7051	1560898.8	2567637.3	6608.77	b
7052	1560897.3	2567638.1	6608.37	b
7053	1560896.4	2567639.9	6608.88	b
7054	1560894.9	2567641.9	6608.84	b
7055	1560897.1	2567644.4	6606.69	b

7056	1560897.7	2567642.4	6608.73	b
7057	1560898.8	2567644.7	6606.86	b
7058	1560893.8	2567642.6	6607.99	b
7059	1560894.4	2567636.8	6609.55	b
7060	1560892.8	2567636.1	6609.68	b
7061	1560892.9	2567638.6	6609.71	b
7062	1560896.1	2567637.9	6609.2	b
7063	1560896.4	2567634.2	6609.19	b
7064	1560894.1	2567633.9	6608.87	b
7065	1560891.5	2567639.6	6608.55	b
7066	1560892.2	2567640.3	6609.12	b
7067	1560893.5	2567641.5	6609.12	b
7068	1560890.3	2567642.6	6608.58	b
7069	1560892.1	2567642.4	6609.09	b
7070	1560889.4	2567641.6	6609.35	b
7071	1560887.2	2567641.2	6608.84	b
7072	1560885.6	2567643.2	6608.74	b
7073	1560888.3	2567643.5	6609.17	b
7074	1561168.5	2567533.7	6612.1	cp20 chck
7075	1560854.2	2567713.4	6616.61	cp100 chck
7076	1560898.3	2567697.4	6618.76	b
7077	1560897.4	2567695.7	6616.8	b
7078	1560896.6	2567694.2	6616.54	b
7079	1560896.1	2567692.7	6615.25	b
7080	1560895.3	2567691.3	6613.69	b
7081	1560894.7	2567689.4	6612.53	b
7082	1560893.9	2567688.1	6612.43	b
7083	1560893.3	2567686.9	6610.82	b
7084	1560891.7	2567684.9	6610.76	b
7085	1560891.9	2567684.1	6608.9	b
7086	1560890.6	2567682.5	6608.04	b
7087	1560886.1	2567675.3	6607.96	cb
7088	1560884.8	2567671.3	6607.84	cb
7089	1560883.2	2567667.1	6607.71	cb
7090	1560880.3	2567662.4	6607.95	cb
7091	1560879.8	2567659.8	6608.55	cb
7092	1560878.5	2567658.9	6608.91	cb
7093	1560879.5	2567656.4	6608.38	cb
7094	1560877.6	2567652.7	6608.65	cb
7095	1560876.6	2567648.8	6609.11	c
7096	1560875.7	2567642.7	6609.46	c

7097	1560875.3	2567641.1	6609.69	lew c
7098	1560873.8	2567635.9	6610.31	gc
7099	1560871	2567626.8	6610.93	gc
7100	1560870	2567623.1	6611.24	gc
7101	1560868.8	2567622.5	6612.21	b
7102	1560869.6	2567619.8	6612.04	b
7103	1560869.5	2567619.1	6612.93	b
7104	1560869.4	2567617.3	6612.62	b
7105	1560869.2	2567615.7	6613.68	b
7106	1560896.6	2567615.6	6610.12	gcb deposit
7107	1560895.9	2567623.6	6609.89	gcb deposit
7108	1560899.3	2567628.3	6609.06	gcb deposit
7109	1560902.1	2567631.4	6608.98	gcb deposit
7110	1560904	2567634.3	6608.36	gcb deposit
7111	1560905.8	2567627.9	6609.3	gcb deposit
7112	1560906.4	2567620.5	6609.62	gcb deposit
7113	1560901.6	2567616.5	6609.74	gcb deposit
7114	1560914.1	2567616.4	6609.06	gcb deposit
7115	1560913.2	2567622.8	6609.26	gcb deposit
7116	1560917.7	2567620.5	6608.9	gcb deposit
7117	1560918.9	2567626.5	6609.07	gcb deposit
7118	1560913.2	2567633.3	6608.77	gcb deposit
7119	1560908.9	2567631.7	6608.97	gcb deposit
7120	1560908.9	2567635.3	6608.82	gcb deposit
7121	1560908.5	2567636.6	6608.14	gcb deposit
7122	1560915.9	2567627.9	6609.03	gcb deposit
7123	1560920.8	2567633.7	6608.61	gcb deposit
7124	1560925.7	2567626.1	6608.71	gcb deposit
7125	1560934.3	2567632	6608.34	gcb deposit
7126	1560939.2	2567630.5	6608.26	gcb deposit
7127	1560937.5	2567626.5	6608.45	gcb deposit
7128	1560935.8	2567618.4	6608.09	gcb deposit
7129	1560933.4	2567614.8	6607.98	gcb deposit
7130	1560920.7	2567616.7	6608.32	gcb deposit
7131	1560905.3	2567616	6609.51	gcb deposit
7132	1560914.6	2567610.6	6611.17	cb
7133	1560931.4	2567606.8	6611.08	cb
7134	1560925.9	2567610.7	6610.22	cb
7135	1560891.5	2567620.1	6610.58	b
7136	1560886.8	2567621.3	6610.4	b
7137	1560881.6	2567621.7	6610.82	b

7138	1560876.6	2567623	6610.86	b
7139	1560842.7	2567649.3	6610.08	lew gcb
7140	1560808.6	2567654.7	6610.55	lew gcb
7141	1560769.5	2567641.9	6611.7	lew gcb
7142	1560757.5	2567643.1	6611.68	lew gcb
7143	1560731.2	2567640.8	6613.19	lew gcb
7144	1560703.7	2567634.2	6613.48	lew gcb
7145	1560666.2	2567628.9	6613.35	lew gcb
7146	1560646	2567634.6	6614.02	lew gcb
7147	1560655.2	2567635.3	6615.31	b
7148	1560655.7	2567642.3	6615.03	b
7149	1560660.2	2567643.1	6614.22	b
7150	1560659.8	2567638.4	6614	b
7151	1560662.2	2567637	6613.67	b
7152	1560665	2567637.8	6613.52	b
7153	1560666.1	2567635.3	6613.63	b
7154	1560660.8	2567633	6614.84	b
7155	1560651.5	2567634.9	6613.71	b
7156	1560649.8	2567644.8	6611.75	b
7157	1560654.6	2567645.4	6613.93	b
7158	1560654.7	2567648.3	6612.43	b
7159	1560657.5	2567646.2	6613.45	b
7160	1560658.6	2567649.2	6611.64	b
7161	1560664.1	2567646.4	6610.9	b
7162	1560665.1	2567642.5	6611.74	b
7163	1560668	2567638.7	6611.91	b
7164	1560668.3	2567634.3	6612.68	b
7165	1560655	2567632.2	6614.64	b
7166	1560658.9	2567630.5	6615.65	b
7167	1560578.8	2567642.6	6615.57	b
7168	1560575.2	2567646	6614.55	b
7169	1560580.9	2567648.4	6615.27	b
7170	1560580	2567637.2	6615.53	b
7171	1560582	2567641.8	6614.28	lew b
7172	1560582.4	2567643.3	6614.15	b
7173	1560580.7	2567645.7	6613.01	b
7174	1560571	2567657.8	6612.1	cb thalweg
7175	1560594.2	2567652.2	6612.15	cb thalweg
7176	1560622.7	2567644.4	6611.71	cb thalweg
7177	1560651.3	2567646.9	6611.1	cb thalweg
7178	1560650.4	2567654.2	6611.41	cb

7179	1560650.2	2567660.4	6612.3	cb
7180	1560650.6	2567667.2	6612.61	cb
7181	1560651.9	2567674.3	6613.21	cb
7182	1560652.6	2567680.6	6613.09	cb
7183	1560652	2567689.5	6613.13	gcb
7184	1560651.8	2567694.5	6613.72	gcb
7185	1560651.4	2567698.3	6613.65	gcb
7186	1560653.6	2567699.9	6613.81	rew gcb
7187	1560652.8	2567704.8	6614.84	gcb
7188	1560653.1	2567709.6	6616.01	gcb
7189	1560680.5	2567702.2	6613.44	rew gcb
7190	1560701.1	2567702.8	6613.24	rew gcb
7191	1560697.7	2567712.1	6614.73	gcb
7192	1560698.7	2567706.9	6613.96	gcb
7193	1560701	2567698.5	6612.47	gcb
7194	1560702.9	2567692.4	6612.82	gcb
7195	1560705.6	2567685.4	6612.7	gcb
7196	1560708.1	2567680.7	6612.2	gcb
7197	1560708.4	2567679.3	6612.94	gcb
7198	1560708.5	2567677.4	6612.21	gcb
7199	1560710.5	2567671.6	6612	gcb
7200	1560713.7	2567664.5	6611.93	gcb
7201	1560716.7	2567658.4	6611.52	gcb
7202	1560718.3	2567654.5	6611.47	gcb
7203	1560721.7	2567650	6611.72	gcb
7204	1560726.6	2567645.6	6612.8	gcb
7205	1560789.1	2567635.3	6613.4	gcb
7206	1560787.6	2567645.2	6612.45	gcb
7207	1560787.6	2567649.6	6611.52	gcb
7208	1560788.4	2567650.7	6611.31	lew gcb
7209	1560788.7	2567652.8	6611.15	gcb
7210	1560787.3	2567653.6	6609.8	gcb
7211	1560787.3	2567656.5	6609.54	gcb
7212	1560785.1	2567661.1	6609.8	gcb
7213	1560782.5	2567665.9	6609.66	gcb
7214	1560778.4	2567671.8	6609.62	cb
7215	1560778.1	2567674.8	6609.84	cb
7216	1560779.5	2567679.3	6610.22	cb
7217	1560779.7	2567684.9	6610.37	cb
7218	1560780.5	2567687.8	6610.17	cb
7219	1560780.9	2567690.7	6610.47	cb

7220	1560781.6	2567694.5	6610.6	cb
7221	1560781.7	2567699	6610.93	cb
7222	1560782.8	2567702.5	6610.75	gcb
7223	1560783.8	2567703.9	6611.27	rew gcb
7224	1560783.6	2567705.7	6612	cb
7225	1560785.4	2567708	6611.79	cb
7226	1560786.3	2567711	6613.01	cb
7227	1560830.5	2567702.2	6610.36	cb
7228	1560831.7	2567699.6	6610.39	rew cb
7229	1560860.4	2567690.7	6609.89	rew cb
7230	1560895.8	2567684.2	6609.87	rew cb
7231	1560934.5	2567667	6608.55	rew b
7232	1560993.8	2567640.3	6608.11	rew b
7233	1561026	2567616.7	6607.22	rew b
7234	1561112.7	2567560.7	6607.27	rew b
7235	1561138.9	2567541.1	6607.28	rew b
7236	1561168.5	2567533.8	6612.07	cp20 chck
7237	1561168.6	2567533.7	6612.01	cp20 chckin 10292020
7238	1560958.6	2567660.9	6610.12	b
7239	1560957.6	2567659.5	6610.29	b
7240	1560957.5	2567659	6608.72	b
7241	1560956.6	2567657.4	6608.62	b
7242	1560961.9	2567653.7	6606.74	b
7243	1560955.8	2567656.5	6606.11	b
7244	1560954.7	2567652.6	6606.24	cb
7245	1560952.5	2567649.5	6606.05	cb
7246	1560950	2567647.2	6606.02	cb
7247	1560947	2567644.1	6606.76	cb
7248	1560944.6	2567638.9	6607.3	cb
7249	1560952.3	2567634.2	6607.3	cb
7250	1560955.8	2567641.2	6606.41	cb
7251	1560935.1	2567638	6607.72	cb
7252	1560937.8	2567646.8	6606.88	cb
7253	1560937.6	2567648.9	6606.78	cb
7254	1560939.3	2567650.8	6605.78	cb
7255	1560939	2567654.8	6605.02	cb
7256	1560930.7	2567650.5	6605.73	cb
7257	1560930	2567647	6606.59	cb
7258	1560917.4	2567644.1	6607.46	cb
7259	1560918.7	2567638.3	6608.08	cb
7260	1560913.8	2567639.8	6608.13	cb

7261	1560912.3	2567639.8	6608.88	cb
7262	1560912.7	2567637.4	6608.61	cb
7263	1560910.3	2567639.9	6607.54	cb
7264	1560912	2567642.4	6607.13	cb
7265	1560910.1	2567644	6606.76	cb
7266	1560907.1	2567641.4	6608.03	cb
7267	1560906.2	2567642.3	6607.13	cb
7268	1560907.9	2567643.9	6606.69	cb
7269	1560898.2	2567631	6609.16	cb
7270	1560877	2567640.6	6609.81	b
7271	1560878.8	2567639.1	6609.83	b
7272	1560879.4	2567641.1	6609.61	b
7273	1560878.3	2567642.8	6609.61	b
7274	1560878.3	2567645.2	6609.36	b
7275	1560880.3	2567644	6609.43	b
7276	1560876	2567643.4	6609.49	b
7277	1560876	2567640.3	6609.69	lew gc
7278	1560874.1	2567634.5	6610.47	gc
7279	1560872.8	2567629.4	6610.7	gc
7280	1560866.3	2567629.4	6611.23	g
7281	1560853.9	2567635.1	6611.38	sg
7282	1560843	2567641	6611.03	gc
7283	1560851.6	2567640.4	6610.78	gc
7284	1560852.3	2567644.9	6610.06	lew sgc
7285	1560854	2567650	6609.64	gc
7286	1560856.2	2567653.6	6609.28	cb
7287	1560850.8	2567652.8	6609.49	cb
7288	1560855.7	2567650.8	6610.08	cb
7289	1560858.1	2567650.4	6609.87	cb
7290	1560860.5	2567650.5	6609.56	cb
7291	1560863.1	2567655.8	6609.14	cb
7292	1560863.8	2567650.7	6609.15	cb
7293	1560860.3	2567643.7	6609.93	lew gc
7294	1560869.6	2567642.8	6609.81	lew gc
7295	1560868.4	2567654.5	6608.98	cb
7296	1560874.5	2567653.3	6608.93	cb
7297	1560873.4	2567649.1	6609.32	cb
7298	1560873	2567649.7	6610.09	cb
7299	1560872.1	2567650.7	6609.33	cb
7300	1560872.2	2567643.8	6609.54	cb
7301	1560870.1	2567634.9	6610.53	gc

7302	1560866	2567636	6610.49	gc
7303	1560859.9	2567637.9	6610.77	gc
7304	1560861.4	2567632.4	6611.26	gc
7305	1560862.8	2567635.7	6610.64	gc
7306	1560864.6	2567640.2	6610.44	gcb
7307	1560866	2567646.8	6609.6	gcb
7308	1560862	2567645.2	6609.79	gcb
7309	1560858.7	2567640.7	6610.34	gcb
7310	1560855.4	2567640	6610.53	gcb
7311	1560855.3	2567643.4	6609.99	gcb
7312	1560857.9	2567647.7	6609.77	gcb
7313	1560870.2	2567630.8	6610.83	gc
7314	1560869.8	2567638.6	6610.15	gc
7315	1560878.6	2567636.4	6610.07	b
7316	1560877.3	2567632.2	6610.44	b
7317	1560879.3	2567626.4	6610.58	b
7318	1560879.1	2567622	6610.75	b
7319	1560876.7	2567622.7	6610.95	b
7320	1560875.2	2567624.7	6610.91	b
7321	1560873.3	2567622.7	6611.32	b
7322	1560875.3	2567618.5	6611.91	b
7323	1560873.7	2567620.5	6611.89	b
7324	1560871.1	2567621.6	6612	b
7325	1560867.8	2567623.4	6612.34	b
7326	1560866.2	2567620.6	6612.92	b
7327	1560863.3	2567620	6613.39	b
7328	1560863.4	2567618.4	6613.5	b
7329	1560861.7	2567617.5	6614.33	b
7330	1560866.2	2567618.4	6613.44	b
7331	1560866.9	2567619.8	6612.95	b
7332	1560867.6	2567620.6	6612.76	b
7333	1560867.4	2567621.5	6612.14	b
7334	1560870.8	2567620	6612.12	b
7335	1560873	2567618.2	6611.85	b
7336	1560875.3	2567615.7	6613.09	b
7337	1560872.3	2567614.7	6613.73	b
7338	1560872.3	2567616.1	6613.05	b
7339	1560871.9	2567617.4	6613.06	b
7340	1560870.6	2567618.7	6612.76	b
7341	1560867.2	2567624.9	6611.35	b
7342	1560860.9	2567625.8	6611.81	b

7343	1560854.3	2567623.7	6612.76	cb
7344	1560848	2567618.7	6614.51	cb
7345	1560854.8	2567618.9	6614.08	cb
7346	1560862.3	2567621.8	6613.05	cb
7347	1560870.6	2567625.9	6611.08	g
7348	1560863	2567627.8	6611.25	g
7349	1560853.3	2567625.5	6612.35	g
7350	1560843.1	2567628.4	6612.7	g
7351	1560844.7	2567633.4	6612.06	g
7352	1560852.9	2567628.9	6611.96	g
7353	1560849	2567626.1	6612.67	g
7354	1560855.1	2567636.3	6611.07	g
7355	1560849.2	2567636	6611.52	g
7356	1560853.2	2567632	6611.77	g
7357	1560858.2	2567627.2	6612.13	g
7358	1560876.5	2567622.6	6611	b
7359	1560877.8	2567620	6611.08	b
7360	1560878.4	2567618.4	6611.63	b
7361	1560878.3	2567616.4	6612.06	b
7362	1560878.8	2567613.7	6612.23	b
7363	1560879.1	2567609.9	6613.59	b
7364	1560884.5	2567612.3	6612.92	b
7365	1560884	2567613.6	6611.59	b
7366	1560883.2	2567616.1	6611.24	b
7367	1560881.9	2567619	6611.37	b
7368	1560881.4	2567620.7	6610.86	b
7369	1560883.1	2567624.5	6610.51	b
7370	1560881.8	2567628.6	6610.59	b
7371	1560880.5	2567632	6610.67	b
7372	1560881.2	2567634.5	6610.43	b
7373	1560881.5	2567636.5	6610.61	b
7374	1560881.5	2567638.6	6610.24	b
7375	1560882.7	2567640.2	6610.12	b
7376	1560882.9	2567643.2	6609.43	b
7377	1560884.2	2567645.7	6609.64	b
7378	1560886.2	2567649.7	6609.23	b
7379	1560887.8	2567649	6609.23	b
7380	1560885.9	2567647.6	6609.14	b
7381	1560886.2	2567646.1	6609.36	b
7382	1560885.1	2567645	6609.5	b
7383	1560887.1	2567646.8	6608.85	b

7384	1560888.5	2567646.7	6609.38	b
7385	1560891	2567645.9	6609.44	b
7386	1560894.3	2567644.8	6608.88	b
7387	1560892.3	2567646.9	6609.31	b
7388	1560890.3	2567644.2	6609.12	b
7389	1560888	2567645.6	6608.98	b
7390	1560889.4	2567648.6	6608.56	b
7391	1560892.3	2567649.7	6609.06	b
7392	1560889.3	2567642.4	6609.44	b
7393	1560889.7	2567652.2	6609.04	b
7394	1560891.2	2567654.7	6609.12	b
7395	1560892.4	2567653.1	6608.96	b
7396	1560890.9	2567652.4	6609.25	b
7397	1560891.9	2567649.7	6609.03	b
7398	1560893	2567651	6608.91	b
7399	1560893.3	2567653.2	6607.88	cb
7400	1560891.2	2567655.9	6607.51	cb
7401	1560889	2567653.6	6608.72	cb
7402	1560890.3	2567650.3	6608.37	cb
7403	1560891.5	2567648.7	6608.05	cb
7404	1560893.8	2567652.1	6608.2	cb
7405	1560893.7	2567649.3	6607.75	cb
7406	1560888.9	2567649	6608.14	cb
7407	1560894.8	2567654.8	6607.79	cb
7408	1560893.6	2567656.5	6608.24	b
7409	1560895.1	2567652.6	6609	b
7410	1560895.8	2567651.4	6608.93	b
7411	1560895.8	2567653.5	6608.94	block
7412	1560897.4	2567656.6	6608.82	block
7413	1560896.4	2567657.6	6607.33	b
7414	1560894.2	2567658.3	6607.99	b
7415	1560892.3	2567658.7	6607.45	b
7416	1560897.5	2567658.9	6607.62	b
7417	1560899.7	2567659.4	6607.2	b
7418	1560899	2567659	6608.89	block
7419	1560899.2	2567656.2	6608.6	block
7420	1560896.4	2567653.8	6609.65	wse
7421	1560898.7	2567651.8	6608.12	block
7422	1560898.4	2567651.2	6608.63	b
7423	1560899.2	2567650.2	6608.63	b
7424	1560899.7	2567651	6607.77	b

7425	1560897.5	2567649.8	6608.68	b
7426	1560896.8	2567648.5	6608.53	b
7427	1560895.4	2567649.5	6608.77	b
7428	1560896.3	2567647.2	6606.81	b
7429	1560898.9	2567648	6608.47	b
7430	1560899.9	2567647.5	6607.44	b
7431	1560898.5	2567646	6606.47	b
7432	1560901.5	2567651.9	6607.43	b
7433	1560902.2	2567648.5	6607.11	b
7434	1560898.2	2567654.1	6608.58	block
7435	1560892.7	2567644.6	6609.06	b
7436	1560898.7	2567643.6	6606.9	b
7437	1560898.1	2567640.9	6608.69	b
7438	1560900.3	2567639.4	6608.02	b
7439	1560893.5	2567643	6607.82	b
7440	1560893.1	2567641	6609.05	b
7441	1560894.7	2567639.7	6607.89	b
7442	1560891.1	2567639.4	6608.62	b
7443	1560890.3	2567643.2	6608.24	b
7444	1560887.2	2567644.6	6608.49	b
7445	1560887.8	2567641	6608.76	b
7446	1560888.1	2567639.7	6610.21	b
7447	1560887.1	2567639.7	6608.99	b
7448	1560885.9	2567640.1	6610.31	b
7449	1560885.5	2567639.1	6610.59	b
7450	1560886.9	2567638.2	6609.52	b
7451	1560887.9	2567638.1	6609.96	b
7452	1560888.2	2567636.8	6609.73	b
7453	1560888	2567636.2	6609.13	b
7454	1560889.7	2567636.6	6609.8	b
7455	1560890.4	2567636.1	6608.29	b
7456	1560892.5	2567636	6609.35	b
7457	1560884.2	2567637.6	6609.28	b
7458	1560881.7	2567636.1	6610.31	b
7459	1560882.7	2567634.5	6609.57	b
7460	1560884.2	2567635.4	6610.03	b
7461	1560886.5	2567635	6610.27	b
7462	1560885.2	2567633.8	6610.23	b
7463	1560884.9	2567633.3	6609.47	b
7464	1560886.9	2567633.3	6609.85	b
7465	1560885.2	2567632.1	6610.34	b

7466	1560882.6	2567632.5	6610.32	b
7467	1560882.2	2567632.6	6609.78	b
7468	1560882.4	2567630.3	6609.96	b
7469	1560883.4	2567628.6	6609.5	b
7470	1560884.4	2567630.7	6610.21	b
7471	1560885.6	2567629.8	6609.27	b
7472	1560887	2567630.9	6610.09	b
7473	1560888.3	2567632.6	6609.44	b
7474	1560888.9	2567633.7	6609.78	b
7475	1560889.1	2567635.3	6609.61	b
7476	1560890.5	2567635.3	6608.37	b
7477	1560889.8	2567632.8	6609.08	b
7478	1560889.8	2567631.7	6609.98	b
7479	1560891.4	2567630.6	6608.6	b
7480	1560893	2567630.9	6608.49	b
7481	1560893.9	2567633.7	6608.7	b
7482	1560894.9	2567635	6609.41	b
7483	1560893.9	2567631.3	6609.13	b
7484	1560895.9	2567631.1	6608.79	b
7485	1560891.5	2567633	6609.53	b
7486	1560890.6	2567633.7	6609.19	b
7487	1560889.6	2567629.4	6609.54	b
7488	1560890.5	2567628.7	6609.4	b
7489	1560887.5	2567629	6609.63	b
7490	1560886.7	2567632.7	6609.73	b
7491	1560888.7	2567630.9	6609.65	b
7492	1560887.1	2567628.2	6609.99	b
7493	1560884.7	2567626.5	6609.93	b
7494	1560884.3	2567625.9	6609.85	b
7495	1560884	2567625.6	6610.07	b
7496	1560882.6	2567622.9	6610.13	b
7497	1560885.4	2567622.1	6609.41	b
7498	1560887	2567623.9	6610.25	b
7499	1560886.4	2567625.4	6609.94	b
7500	1560885.9	2567626.8	6609.95	b
7501	1560888.3	2567627.6	6610.49	b
7502	1560890.4	2567627	6610.06	b
7503	1560890.7	2567628.2	6609.18	b
7504	1560889.4	2567624.6	6610.08	b
7505	1560889.6	2567623.1	6609.62	b
7506	1560889.1	2567622.5	6609.12	b

7507	1560890.2	2567621.2	6610.04	b
7508	1560890.3	2567621.3	6610.55	
7509	1560891.8	2567619.4	6610.23	b
7510	1560892.4	2567618.9	6608.85	b
7511	1560891.7	2567618.2	6610.11	b
7512	1560893.6	2567616.9	6609.99	b
7513	1560894.5	2567618.5	6609.41	b
7514	1560894	2567621	6609.9	b
7515	1560891.7	2567622	6609.61	b
7516	1560891.7	2567624.5	6609.54	b
7517	1560892.1	2567624.8	6610.01	b
7518	1560892	2567626.4	6609.85	b
7519	1560892.8	2567627.9	6609.81	b
7520	1560893.7	2567629.3	6609.51	b
7521	1560895.3	2567630.8	6609.21	b
7522	1560897	2567628.5	6609.22	b
7523	1560898.2	2567624.5	6609.7	b
7524	1560902	2567621.4	6609.68	b
7525	1560907.4	2567626.6	6609.18	b
7526	1560884.1	2567655.5	6608.73	cb
7527	1560880.8	2567649.2	6609.1	cb
7528	1560884.2	2567657.7	6609.13	cb
7529	1560883.9	2567660.3	6608.21	cb
7530	1560887.4	2567661.3	6607.46	cb
7531	1560886	2567666.4	6607.71	cb
7532	1560849	2567633.3	6611.66	g
7533	1560850	2567640.2	6610.86	gc
7534	1560851.1	2567644.7	6610.06	gc
7535	1560850.5	2567651	6609.59	cb
7536	1560850.6	2567654.9	6609.11	cb
7537	1560852.4	2567660	6608.6	cb
7538	1560853.7	2567666.8	6607.88	cb
7539	1560853	2567672.5	6607.91	cb
7540	1560852.6	2567675.2	6607.98	cb
7541	1560852.9	2567677.6	6607.99	cb
7542	1560852.9	2567682.3	6608.06	cb
7543	1560853.9	2567683.8	6609.52	cb
7544	1560855.7	2567684.9	6608.47	cb
7545	1560853.9	2567686.3	6609.25	cb
7546	1560854.2	2567688.6	6609.82	cb
7547	1560855.5	2567691.3	6609.69	cb

7548	1560855.7	2567693.7	6609.69	cb
7549	1560854	2567694.7	6609.3	cb
7550	1560852.7	2567695.3	6610.02	rew b
7551	1560855.4	2567696.7	6611.66	b
7552	1560855.5	2567698.6	6611.25	b
7553	1560855.3	2567699.9	6612.97	b
7554	1560855.2	2567701.4	6613.05	b
7555	1560855.4	2567702	6613.81	b
7556	1560856.3	2567705	6614.49	b
7557	1560856.5	2567705.5	6615.34	b
7558	1560856.5	2567707.4	6615.42	b
7559	1560857.7	2567707.2	6616.46	b
7560	1560859.8	2567713.4	6616.6	b
7561	1560854.2	2567713.3	6616.62	cp100 chck
7562	1560892.1	2567688.8	6612.48	b
7563	1560896.4	2567687.1	6612.2	b
7564	1560898	2567683.7	6612.25	b
7565	1560900.1	2567685.8	6611.62	b
7566	1560901	2567686.7	6612.87	b
7567	1560902.5	2567686.8	6612.4	b
7568	1560901.3	2567681.9	6612.29	b
7569	1560906.8	2567680.1	6612.21	b
7570	1560907.9	2567682.7	6612.02	b
7571	1560908.5	2567684	6612.8	b
7572	1560909.4	2567685.6	6612.74	b
7573	1560917.6	2567682.3	6611.88	b
7574	1560916.5	2567679.3	6612.02	b
7575	1560915.2	2567676.5	6611.94	b
7576	1560921.7	2567674	6611.72	b
7577	1560919.5	2567674.6	6611.61	b
7578	1560922.7	2567676.7	6611.78	b
7579	1560924	2567680.1	6611.98	b
7580	1560911.8	2567681.4	6612.21	b
7581	1560930	2567679.2	6613.18	b
7582	1560929.5	2567678.3	6611.83	b
7583	1560928.7	2567676.4	6611.82	b
7584	1560928.4	2567675.5	6611.51	b
7585	1560927.7	2567673.3	6611.57	b
7586	1560929.9	2567673.3	6610.18	b
7587	1560929.9	2567674.4	6610.23	b
7588	1560931	2567674.8	6612.38	b

7589	1560933.2	2567678	6611.98	b
7590	1560938.6	2567671.9	6612.22	b
7591	1560940.8	2567669.1	6611.58	b
7592	1560945.4	2567668.6	6611.77	b
7593	1560949.9	2567666.6	6612.29	b
7594	1560952.8	2567664.2	6611.22	b
7595	1560956.2	2567662.7	6611.27	b
7596	1560960.5	2567660.3	6611.16	b
7597	1560964.3	2567658.3	6611.18	b
7598	1560968.4	2567656.8	6611.25	b
7599	1560976.5	2567652.8	6611.3	b
7600	1561168.5	2567533.7	6612.05	cp20 chck
7601	1561168.6	2567533.7	6612.13	cp20 chckin 11-312020
7602	1560854.1	2567713.4	6616.62	cp100 chck
7603	1560897.8	2567681	6609.12	top bldr
7604	1560901	2567678.7	6608.88	top bldr
7605	1560903	2567676.8	6609.19	top bldr
7606	1560907.7	2567674.2	6608.86	top bldr
7607	1560900.3	2567674.8	6608.88	top bldr
7608	1560900	2567662.2	6608.37	block
7609	1560899.4	2567660.6	6606.95	b
7610	1560899.5	2567662.9	6607.3	b
7611	1560896.7	2567666.6	6607.18	b
7612	1560892.4	2567668.5	6607.56	b
7613	1560894.7	2567666.3	6607.77	b
7614	1560899.5	2567660	6606.93	b
7615	1560901	2567663.6	6608.43	block
7616	1560898.8	2567659.1	6608.9	block
7617	1560900.6	2567660	6607.19	b
7618	1560889	2567661.9	6607.36	b
7619	1560888	2567667.8	6607.75	b
7620	1560892.3	2567671.4	6607.55	b
7621	1560892.4	2567676.8	6608.15	b
7622	1560895.7	2567673	6607.89	b
7623	1560895.7	2567668.9	6607.85	b
7624	1560902	2567667.5	6607.85	b
7625	1560898.3	2567667.7	6608.04	b
7626	1560899.3	2567671.1	6608.07	b
7627	1560902.7	2567670.4	6608.67	b
7628	1560902.9	2567668.4	6607.56	b
7629	1560902.9	2567666.6	6608.44	block

7630	1560901.2	2567673	6608.89	b
7631	1560904.4	2567671.9	6608.91	b
7632	1560908.3	2567667.5	6608.75	b
7633	1560907	2567666.4	6608.14	b
7634	1560908.6	2567670.3	6608.61	b
7635	1560909.5	2567671.3	6607.65	b
7636	1560910.8	2567667.3	6608.49	b
7637	1560912.1	2567668.1	6607.96	b
7638	1560910.7	2567671.5	6608.37	b
7639	1560907.3	2567673.5	6608.93	b
7640	1560901.5	2567655.2	6608.12	b
7641	1560902.2	2567655.7	6608	b
7642	1560902.8	2567655.2	6607.44	b
7643	1560912.4	2567666.8	6608.05	b
7644	1560912.5	2567668.1	6608.02	b
7645	1560912	2567664	6607.33	b
7646	1560909.5	2567665.7	6607.7	b
7647	1560911.2	2567661.7	6606.93	b
7648	1560909.1	2567662.7	6607.49	b
7649	1560913.5	2567667.3	6607.97	b
7650	1560913.3	2567667.6	6607.98	b
7651	1560921.3	2567658.6	6604.51	b
7652	1560919.3	2567660.1	6604.88	b
7653	1560924.3	2567655.9	6609.42	b
7654	1560929	2567659.2	6604.03	b
7655	1560925.5	2567657.4	6604.75	b
7656	1560928.5	2567662.1	6604.05	b
7657	1560925.8	2567668.1	6606.16	b
7658	1560922.6	2567670.9	6607.75	b
7659	1560921.4	2567667.8	6607.42	b
7660	1560920.2	2567666.6	6606.3	b
7661	1560916.5	2567668.9	6608.01	b
7662	1560919	2567668.6	6607.77	b
7663	1560917	2567667.1	6606.05	b
7664	1560913.1	2567671.4	6608.51	b
7665	1560908.2	2567652.9	6606.37	b
7666	1560918.7	2567630.4	6608.98	b
7667	1560918.9	2567630.1	6608.98	b
7668	1560909.1	2567654.4	6605.36	b
7669	1560906.6	2567654.5	6607.14	b
7670	1560911	2567655.6	6606.17	b

7671	1560909.6	2567656.5	6605.61	b
7672	1560908.1	2567656.2	6606.95	b
7673	1560996.5	2567602.3	6606.69	b
7674	1560998.5	2567600.4	6605.91	b
7675	1560999.3	2567599.6	6604.74	b
7676	1560996.5	2567603.5	6606.72	b
7677	1560995.3	2567603.2	6606.14	b
7678	1560995.2	2567603.7	6605.59	b
7679	1560995.8	2567605	6605.4	b
7680	1560993.8	2567605.3	6606.63	b
7681	1561002.9	2567593.5	6602.9	b
7682	1561003.1	2567593.4	6602.73	b
7683	1561002.9	2567594.2	6601.85	b
7684	1561000.7	2567595.8	6602.54	b
7685	1561000.5	2567595.9	6602.67	b
7686	1561005.4	2567589.6	6603.18	b
7687	1561011.1	2567586.8	6603.54	b
7688	1561006.4	2567585	6604.15	b
7689	1561006.4	2567585	6604.09	b
7690	1561009.3	2567604.5	6605.55	b
7691	1561024.5	2567605.1	6603.65	b
7692	1561022.1	2567605.8	6601.76	b
7693	1561013.9	2567608.4	6602.61	b
7694	1561018.2	2567602.1	6607.39	deep
7695	1561018.1	2567600.6	6606.94	deep
7696	1561023	2567597.2	6606.63	deep
7697	1561014	2567601	6606.05	deep
7698	1561015.4	2567613.7	6609.29	deep
7699	1561012.8	2567610	6609.44	deep
7700	1561015	2567597.3	6606.38	deep
7701	1561020.6	2567591	6611.33	deep
7702	1561004	2567600.8	6608.63	deep
7703	1561008.1	2567604.2	6608.29	deep
7704	1561016.9	2567577.3	6609.64	deep
7705	1561024.7	2567585.2	6608.3	deep
7706	1561028.5	2567598.2	6606.59	deep
7707	1561007.9	2567610.3	6608.82	deep
7708	1561010.8	2567606.5	6607.17	deep
7709	1561009.7	2567614.8	6610.13	deep
7710	1561005.9	2567615.6	6606.78	b
7711	1561004.8	2567616.1	6605.86	b

7712	1561006.3	2567617.4	6605.72	b
7713	1561004.1	2567618.1	6606.86	b
7714	1561005.4	2567620.7	6607.21	b
7715	1561003.4	2567619.8	6605.53	b
7716	1561168.6	2567533.6	6611.92	cp20 chck out
7717	1561168.5	2567533.7	6612.16	cp20 ckckin
7718	1561168.5	2567533.7	6612.13	cp20chck
7719	1561036.3	2567616.8	6605.7	b
7720	1561035.9	2567614.1	6604.95	b
7721	1561032.6	2567611.6	6605.54	b
7722	1561033.1	2567611.2	6604.49	b
7723	1561030.1	2567611.9	6605.04	b
7724	1561028.9	2567610.7	6603.54	b
7725	1561026.6	2567611.9	6602.58	b
7726	1561024	2567614.6	6604.59	b
7727	1561021.3	2567616.2	6605.17	b
7728	1561019.6	2567614.8	6603.41	b
7729	1561016.2	2567616.9	6604.41	b
7730	1561015.1	2567613.3	6605.07	b
7731	1561015.1	2567612.1	6602.52	b
7732	1561017.8	2567610.4	6601.92	b
7733	1561017.2	2567611.2	6602.32	b
7734	1561030.8	2567619.5	6607.21	wse b
7735	1560976	2567644.9	6607.45	b
7736	1560975.1	2567644.2	6605.79	b
7737	1560973	2567641.8	6605.59	b
7738	1560968.2	2567640.7	6605.86	b
7739	1560966.7	2567639.7	6605.55	b
7740	1560965.2	2567637.3	6605.99	b
7741	1560967	2567628	6606.6	cb
7742	1560969.5	2567634.3	6606.02	cb
7743	1560970.5	2567635.6	6605.75	cb
7744	1560970.7	2567637.2	6607.03	b
7745	1560971.4	2567638.7	6605.66	b
7746	1560967.4	2567624.5	6606.92	cb
7747	1560963.8	2567610.3	6607.31	gc
7748	1560962.5	2567605.2	6607.61	gc
7749	1560961.3	2567603	6608.09	wse gc
7750	1560862.7	2567644.3	6609.85	wse gcb
7751	1560863.7	2567655	6608.7	gcb
7752	1560865.4	2567662.5	6608.28	gcb

7753	1560864.5	2567658.6	6608.78	gcb
7754	1560865.7	2567666.5	6608.54	b
7755	1560864	2567669.8	6607.73	b
7756	1560827.6	2567651	6610.34	wse gcb
7757	1560827.2	2567655.1	6608.96	gcb
7758	1560827.4	2567658.6	6609.1	gcb
7759	1560828	2567660.9	6609.75	b
7760	1560825	2567663.3	6609.67	b
7761	1560826.1	2567665.8	6609.67	b
7762	1560824.1	2567665.7	6608.42	cb
7763	1560828.4	2567665.1	6608.38	cb
7764	1560828.8	2567669.1	6608.49	cb
7765	1560828	2567671.1	6608.51	cb
7766	1560827.5	2567674.6	6608.51	cb
7767	1560826.8	2567678	6608.81	cb
7768	1560826.1	2567681.4	6608.38	cb
7769	1560824.3	2567686.6	6609.26	cb
7770	1560823.3	2567692.1	6609.2	cb
7771	1560822.8	2567696.6	6610.03	cb
7772	1560823.4	2567699.6	6610.27	cb
7773	1560823.2	2567701	6610.43	wse cb
7774	1560823.9	2567701.7	6611.68	b
7775	1560824.1	2567703.9	6612.5	b
7776	1560824.3	2567704.9	6613.27	b
7777	1560854.1	2567713.4	6616.55	cp100 chck
7778	1560871.5	2567692	6609.41	cb
7779	1560871.3	2567692.9	6609.52	cb
7780	1560871.6	2567694.1	6611.67	b
7781	1560870.7	2567688.5	6609.31	b
7782	1560870.4	2567687.5	6608.46	b
7783	1560869.7	2567685.5	6608.9	b
7784	1560869.9	2567682.3	6608.87	cb
7785	1560868.5	2567679.3	6608.41	cb
7786	1560867.2	2567675.6	6608.09	cb
7787	1560866.7	2567672.2	6607.51	cb
7788	1560892.1	2567679.7	6608.37	cb
7789	1560888.7	2567680.4	6608.38	cb
7790	1560888.9	2567683.3	6608.53	b
7791	1560890.5	2567685.2	6609.03	b
7792	1560898.7	2567678.8	6608.55	b
7793	1560894.5	2567676.8	6608.37	b

7794	1560895	2567678.7	6608.76	b
7795	1560893.6	2567680.8	6607.92	b
7796	1560888.1	2567675	6608.07	b
7797	1560906.1	2567678.8	6609.31	b
7798	1560906.1	2567678.8	6609.25	b
7799	1560902	2567680.7	6609.12	b
7800	1560911.1	2567676.2	6608.95	b
7801	1560904.9	2567673.2	6608.87	b
7802	1560905.9	2567674.7	6608.83	b
7803	1560913.1	2567675.7	6608.55	b
7804	1560915.7	2567674.4	6608.57	b
7805	1560913.1	2567672	6608.46	b
7806	1560914.4	2567672.6	6608.26	b
7807	1560929.4	2567672.7	6609.04	b
7808	1560931.3	2567670.3	6608.63	b
7809	1560928.7	2567670.1	6607.15	b
7810	1560925.1	2567672.6	6607.63	b
7811	1560921.8	2567672.6	6607.73	b
7812	1560919.7	2567673.8	6608.43	b
7813	1560918.4	2567671.1	6607.83	b
7814	1560920.9	2567670.2	6606.77	b
7815	1560916.4	2567671.7	6607.93	b
7816	1560918	2567672.8	6607.47	b
7817	1560926.9	2567671.6	6607.15	b
7818	1560925.3	2567669.5	6606.44	b
7819	1560929.4	2567668.8	6606.79	b
7820	1560933.4	2567665.2	6606.62	b
7821	1560940.3	2567663.1	6606.25	b
7822	1560950.2	2567661.3	6606.05	b
7823	1560945	2567662.5	6605.86	b
7824	1560944.7	2567660.3	6604.86	b
7825	1560942.1	2567667.3	6608.59	wse b
7826	1561004.7	2567567.2	6607.36	wse gc
7827	1561006.9	2567570.7	6606.73	gc
7828	1561009.3	2567575	6606.02	gc
7829	1561012.5	2567580.9	6604.83	gc
7830	1561013.1	2567584.9	6604.19	gc
7831	1561008.2	2567587.7	6603.73	c
7832	1561006	2567581.9	6605.14	gcb
7833	1561004.4	2567578.2	6605.85	gcb
7834	1561002.8	2567576.2	6607.13	gcb

7835	1560999.7	2567577.4	6608.16	b
7836	1560998.9	2567581.2	6607.32	b
7837	1560999.3	2567583.2	6604.83	b
7838	1560997	2567583.9	6606.61	b
7839	1560995	2567581.5	6606.28	b
7840	1560994.2	2567580	6609.01	b
7841	1560997.4	2567577	6608.77	b
7842	1560993.7	2567575.6	6609.44	b
7843	1560992.6	2567573.4	6609.34	b
7844	1560996.3	2567570.3	6609.05	b
7845	1560997	2567573.3	6608.79	b
7846	1561001	2567572.2	6608.16	b
7847	1560985.3	2567571.7	6610.95	b
7848	1560984.9	2567570.3	6612.59	b
7849	1560986.3	2567572.5	6609.89	b
7850	1560986.5	2567574.4	6609.81	b
7851	1560981.5	2567576.4	6610.24	b
7852	1560985.5	2567577.8	6609.38	b
7853	1560988.1	2567578.3	6609.55	b
7854	1560990.7	2567580.6	6609.29	b
7855	1560988.1	2567580.1	6608.46	b
7856	1560987.5	2567581.6	6609.5	b
7857	1560985.3	2567583.2	6609.16	b
7858	1560982.6	2567582.9	6609.82	b
7859	1560980.1	2567580.2	6610.17	b
7860	1560977.8	2567582.7	6609.99	b
7861	1560977	2567584.4	6610	b
7862	1560977.8	2567586.9	6610.01	b
7863	1560979.6	2567588.1	6609.21	b
7864	1560981.1	2567587.4	6609.86	b
7865	1560983.2	2567587.8	6608.47	b
7866	1560986.2	2567587.2	6609.4	b
7867	1560988.4	2567587.3	6607.74	b
7868	1560990.4	2567586.8	6608.08	b
7869	1560989.4	2567585	6608.74	b
7870	1560994.2	2567586.6	6607.6	b
7871	1560996.9	2567586.6	6604.79	b
7872	1560997.6	2567588.1	6603.09	b
7873	1561000.3	2567586.5	6604.03	b
7874	1561002.8	2567587.3	6603.79	b
7875	1561004	2567583.1	6604.5	b

7876	1561006.7	2567587.9	6603.47	b
7877	1561000.9	2567589.5	6603.38	b
7878	1560998.9	2567589.2	6603.35	b
7879	1560998.9	2567591.1	6603.2	b
7880	1560998.9	2567591.1	6603.17	b
7881	1561023.3	2567568.5	6605.73	g
7882	1561027	2567575.9	6604.61	gcb
7883	1561023.4	2567568.4	6605.79	g
7884	1561021.1	2567561.8	6606.42	gc
7885	1561017.1	2567559	6607.33	wse gc
7886	1561011.1	2567571.6	6606.5	gc
7887	1561017.1	2567566.9	6606.21	sgc
7888	1561013.7	2567562	6607.32	wse sgc
7889	1561011.8	2567568.2	6606.72	gc
7890	1561024.4	2567578.3	6604.48	c
7891	1561017.9	2567581.8	6604.18	c
7892	1561029.4	2567563	6605.72	sgc
7893	1561043	2567558.1	6605.45	gcb
7894	1561033.4	2567553.5	6605.99	c
7895	1561113.1	2567526.8	6605.01	cb
7896	1561130.1	2567531.9	6606.11	cb
7897	1561168.5	2567533.7	6612.09	cp20 chck