

Appendix 5A

Hydrologic and Hydraulic Analysis of Project Specific FMSs

Appendix 5A. Project-Specific Evaluation Methodology for FMSs

This appendix explains sources of hydrologic and hydraulic models, mapping, and other information utilized to estimate pre-project and post-project benefits for specific FMSs evaluated in the RFP. Evaluations of all potential FMEs and most potentially feasible FMSs were performed at a reconnaissance or screening-level, unsupported by associated detailed hydrologic and hydraulic analyses. The exceptions were the following three FMSs which had specified hydrologic, hydraulic, and/or mapping information available which could be used to estimate proposed FMS benefits:

- FMS ID: 142000001, FEMA Levee Accreditation for All Rio Grande Levees at El Paso (see **Exhibit Map 21.01**)
 - Sufficient hydrologic and hydraulic models and mapping available
 - Hydrologic Model ID: 140000000011 (Preliminary FEMA)
 - Hydraulic Model IDs: 140000000001 (Preliminary FEMA) and 140000000003 through 140000000010 (El Paso County Interior Drainage 2021)
- FMS ID: 142000004, Coordination with Ft. Bliss for FMP Permitting and Maintenance Access (see **Exhibit Map 21.04**)
 - Sufficient hydrologic and hydraulic models and mapping available
 - Hydrologic Model IDs: 140000000011 (Preliminary FEMA) and 140000000019 [El Paso County Stormwater Master Plan (SWMP), Montana Sector]
 - Hydraulic Model ID: 140000000001 (Preliminary FEMA) and 140000000020 (El Paso County SWMP, Montana Sector)
- FMS ID: 142000008, Develop Certification Package for Cibolo Creek Channel and Levee (see **Exhibit Map 21.08**)
 - Sufficient mapping available
 - Existing conditions – RFP 1% annual chance flood risk boundary (*see Chapter 2, Flood Risk Analyses*)
 - Proposed conditions – Fathom 1% annual chance flood risk boundary (Model ID: 140000000038)

Individual mapbook figures displaying zoomed-in project locations and existing downstream flood risk areas are provided as part of **Exhibit Map 21** (see specified mapbook figure numbers listed above for each FMS). In addition, **Exhibit Map 22** shows a region-wide map of hydrologic and hydraulic model coverage extents, with coverage areas displayed according to the last two digits of the corresponding Model IDs.

Each of these three FMSs were analyzed to estimate potential flood benefits as well as demonstrate no negative impacts on neighboring areas. Methods and assumptions related to these detailed evaluations are provided in this appendix, along with discussion on the remaining FMSs which were not evaluated for 1% annual chance flood benefits.

5A-1. Mapping Analysis for FMS ID: 142000001

The RFPG has a short-term goal to accredit all levees in El Paso County by 2033 (Goal ID: 14004001). This FMS is associated with achieving that goal. Currently, only one Rio Grande levee is accredited by FEMA, extending through Central and East El Paso. All other existing levees are assumed to not be present in the 2019 Preliminary FEMA 1% annual chance mapping in El Paso County, based upon FEMA regulations. This mapping was also utilized in the RFP as it is a TWDB requirement to assume levees that are not accredited by FEMA are not present in RFP flood risk mapping.

Interior drainage studies are a requirement to certify and accredit levees with FEMA, which would remove areas protected by those accredited levees from the regulatory floodplain. An interior drainage study consists of hydrologic and hydraulic mapping performed to estimate 1% annual chance flood risk on the landward side of a levee. If a FEMA levee is accredited, FEMA will utilize results from the interior drainage analysis and mapping to establish regulatory flood risk inundation boundaries on the landward side of the levee.

Data Sources and FMS Extent

In locations where the levees are assumed not to be present, results from a natural valley flood analysis (2D hydraulic model, FLO-2D software) were utilized by FEMA to develop preliminary regulatory floodplain mapping extents as well as 1% annual chance depth and water surface grids. The National Levee Database, maintained by USACE, includes service area boundaries which can be downloaded as ArcMap (ESRI) GIS shp files for specific levees, where available. These service area boundaries represent locations where areas are protected from flooding due to existing levees.

The FMS boundary shown in **Exhibit Map 21.01** was derived for the RFP, using engineering judgment, to estimate areas at risk from a failure of the existing levees along the Rio Grande which affect flooding in El Paso and are not accredited by FEMA. The two primary flood extents utilized to develop this boundary were the 1% annual chance flood extents from the El Paso County Natural Valley Analysis Pre-LAMP Report (Study ID 41 in Appendix Table 1D from *Chapter 1*), and the service area boundaries for the Rio Grande levees through El Paso County, downloaded from the National Levee Database website.

Pre- and Post- Project Risk Analyses

Original source models were not modified as part of the analysis for this FMS. To estimate existing conditions for this FMS, 1% annual chance inundation extent boundaries and water surface elevation rasters resulting from the hydrologic and hydraulic models associated with the 2019 Preliminary FEMA Mapping study for El Paso County (Model IDs 140000000001 and 140000000011 from Table 2.1 in *Chapter 2*) were utilized. To estimate proposed conditions for this FMS, 1% annual chance inundation extent boundaries and water surface elevation rasters resulting from the hydrologic and hydraulic models developed as part of the 2021 El Paso

County Interior Drainage Study (Model IDs 140000000003 through 140000000010 in Table 2.1 from *Chapter 2*) were utilized.

Pre- and post-project water surface elevations intersecting building footprints within the FMS extent were compared to estimated finished floor elevations, which were assumed to be 0.5 ft higher than the average ground elevation from the terrain used in the Preliminary FEMA models. Structures at risk were assumed for buildings with finished floor elevations lower than pre- or post-project water surface elevations. No flood benefits were assumed for the 0.2% annual chance flood event, since levee accreditation does not require analysis of the 0.2% annual chance flooding.

No Negative Impact Analyses

The potential for this FMS to negatively impact neighboring areas depends upon specific requirements needed for individual levee segments to meet FEMA certification standards. For levee segments which have already been constructed to FEMA standards, but which lack continuous interior drainage studies along the entire levee segment, there are no additional proposed flood infrastructure improvements associated with this FMS. The benefits of accrediting those levee segments are associated with updated flood risk mapping only; therefore, an impact analysis is not required to confirm that this FMS would not negatively impact neighboring areas.

For levee segments which may require various infrastructure improvements to be certified by project sponsors and accredited by FEMA, the necessary improvements should be identified early in the scope of work associated with performing this FMS. Any potential negative flood impacts associated with proposed levee improvements or the construction process for levee improvements, which may be needed to certify existing levees, should be identified by project sponsors early in the design phases of each specific levee project.

5A-2. Modeling and Mapping Analysis for FMS ID: 142000004

This FMS is primarily associated with facilitating coordination between El Paso Water and the U.S. Army to allow for necessary access on Fort Bliss property to maintain two existing dams (Fusselman and Northgate) by removing sediment regularly, and to eventually perform final design and construct two proposed sediment/detention basins. The two proposed basins are NE7 from the El Paso Water SWMP (Study ID: 13) and MON1 from the El Paso County SWMP (Study ID: 26).

Data Sources and FMS Extent

Existing dams and proposed basin areas are identified in **Exhibit Map 21.04**, along with existing downstream areas at risk of 1% annual chance flooding (shown in purple). The flood risk areas downstream of Northgate and Fusselman dams, as well as downstream of the proposed NE7 basin were delineated based upon 2019 Preliminary FEMA 1% annual chance flood extents. Proposed conditions were not modeled for the existing dams since the amount of sediment to be removed and additional storage volume which may become available is unknown at this time. Proposed conditions were not modeled for NE7 because hydrologic and hydraulic models were not available for this proposed project.

Pre-project and post-project conditions for the area associated with the proposed basin, MON1 were mapped based on a hydrologic HEC-HMS model and a 2D hydraulic HEC-RAS model developed for the MON1 project as part of the 2021 El Paso County SWMP (Study ID: 26). The source models were set up with outflow hydrographs from the existing conditions HEC-HMS hydrologic model applied to the proposed 2D hydraulic model terrain in selected locations toward the downstream end of each contributing watershed. As part of the RFP, the existing condition HEC-HMS hydrographs were re-applied to the 2D hydraulic HEC-RAS model to ensure that the latest hydrologic model output hydrographs are consistent with the hydraulic model inputs. The proposed condition model was not modified as part of the RFP.

Pre- and Post- Project Risk Analyses

The 2019 Preliminary FEMA 1% annual chance water surface elevation grids were compared to finished floor elevations to estimate pre- and post-project conditions for the two existing dams and proposed basin NE7.

The post-project conditions hydraulic model obtained from the El Paso County SWMP assumes that all 1% annual chance flood risk upstream of the proposed basin is detained by the basin, resulting in no flow being discharged directly downstream of the proposed basin. All other subbasins affecting discharge downstream of the project, which are applied in the existing conditions model, are still applied in the proposed conditions hydraulic model. Pre- and post-project water surface elevation grids from the MON1 analysis were exported from the 2D hydraulic model results and compared to finished floor elevations of buildings within building footprint areas to estimate structures at risk.

Since proposed conditions were not modeled for the two existing dams or proposed NE7 basin, there were no structures downstream of these project areas anticipated to be removed from 1% annual chance flooding as part of the FMS risk analyses. However, downstream structures

with finished floor elevations impacted by 1% annual chance water surface elevations are anticipated to have reduced flood risk, due to the creation of additional flood storage volume upstream. Therefore, these structures were included, along with structures measured to be benefited by the MON1 project, in the reported number of structures with reduced 1% annual chance flood risk in the FMS evaluation table shown in **Appendix 4F**. There were no benefits assumed for the 0.2% annual chance flood.

No Negative Impact Analyses

While proposed condition modeling was not performed for the proposed maintenance of the two existing dams (Northgate and Fusselman) or for the proposed NE7 basin, results of the MON1 analysis showed that post-project downstream water surface elevations are lower than or equal to pre-project water surface elevations. Similar positive benefits would be expected if the two existing dams were maintained by clearing out sediment (because more storage volume would be available), and if the proposed basin NE7 were constructed (it would capture and detain runoff, reducing flows downstream). Therefore, there are no negative impacts estimated for this FMS.

5A-3. Mapping Analysis for FMS ID: 142000008

The RFPG has a long-term goal of accrediting all levees in Region 14 by 2053 (Goal ID: 14004002). In alignment with that goal, this FMS is associated with accrediting the “Presidio, TX, Cibolo Creek Left Levee” as identified in the National Levee Database, maintained by USACE. The extent of the FMS study area is shown on **Exhibit Map 21.08**.

Data Sources and FMS Extent

The National Levee Database includes a service area boundary for this levee, which can be downloaded as an ArcMap (ESRI) GIS shp file. The National Levee Database service area boundary was used as the FMS extent, and represents the area protected from flooding due to the existing Cibolo Creek levee. The 1% annual chance risk boundary developed for the RFP in this location includes a merged inundation extent consisting of the 1% annual chance Fathom flood risk boundary combined with the FAFDS boundary, which assumes the unaccredited Cibolo Creek levees are not in place. This mapping was utilized in the RFP flood risk layer because it is a TWDB requirement to assume levees that are not accredited by FEMA are not present in RFP flood risk mapping.

Interior drainage studies are a requirement to certify and accredit levees with FEMA. The certification and accreditation of a levee would remove areas protected by those accredited levees from the regulatory floodplain. An interior drainage study consists of hydrologic and hydraulic mapping performed to estimate 1% annual chance flood risk on the landward side of a levee. If a FEMA levee is accredited, FEMA will utilize results from the interior drainage analysis and mapping to establish regulatory flood risk inundation boundaries on the landward side of the levee.

An associated FME, to be completed prior to this FMS, is the development of hydrologic and hydraulic models for Cibolo Creek and interior drainage as part of the SWMP for the City of Presidio (FME ID: 141000002). It is expected this interior drainage analysis would be relatively straight forward, since topography does not drain toward the Cibolo Creek levee, but rather, it drains south, toward the Rio Grande. Therefore, significant ponding against the levee from the landward side is not anticipated.

Pre- and Post- Project Risk Analyses

The developers of the Fathom flood risk boundaries were interviewed as part of the regional flood planning process to understand assumptions and modeling methods related to levees in the 2D hydrologic and hydraulic modeling and mapping software. According to the Fathom modelers/developers, the assumptions related to levee protection in the software are consistent with flood protection service areas and information regarding frequency of overtopping included in the National Levee Database (which gets updated periodically as new information becomes available). If the information is not available for a specific levee, the model and mapping results are based upon the quality and resolution of the terrain used in that area, which may or may not capture the continuous raised ground elevations associated with a levee, depending on the height and extent of the levee.

Where the information is available, a National Levee Database field named, “Incipient Overtopping Annual Exceedance Probability (AEP)” specifies the frequency of flood event

contained by a levee before it is overtopped. For the Cibolo Creek Left and Right levees, the National Levee Database specifies this AEP as 0.001 (or the 1,000-year return period). Based on the information provided, it is assumed that the Fathom risk layer incorporates levee protection from the 1% annual chance Cibolo Creek riverine flooding within the associated service area obtained from the National Levee Database. Inspection of the Fathom 1% annual chance flood risk layer in this area (shown in purple on **Exhibit Map 21.08**) demonstrates that minimal flood extents are inundated within the FMS extent, which is consistent with the assumptions communicated to the RFPG by the Fathom modelers/developers.

Therefore, to estimate post-project flood risk, it was estimated that the building polygons that intersect the Fathom 1% annual chance risk boundary within the National Levee Database service area are approximately the same number of buildings that would remain in the 1% annual chance flood risk area if a detailed interior drainage analysis were performed, and the levee was accredited by FEMA.

Furthermore, since the RFP 1% annual chance flood risk boundary does not consider the left or right Cibolo Creek levees to be in place, the pre-project flood risk boundary for this FMS was assumed to match the RFP flood risk boundary within the study limits of the National Levee Database service area for the levee. Pre-project flood risk was then estimated by performing a spatial analysis in ArcMap (ESRI) to intersect the building footprint polygons and road layers, documented in *Chapter 2*, with the RFP 1% annual chance flood risk boundary. There were no benefits assumed for the 0.2% annual chance event, due to the high level of uncertainty associated with the capacity and performance of the Cibolo Creek levees relative to the 0.2% annual chance flood.

No Negative Impact Analyses

The potential for this FMS to negatively impact neighboring areas depends upon specific requirements that must be met for the levee segment to meet FEMA certification standards. If the existing left Cibolo Creek levee is already constructed to FEMA certification standards, there would be no proposed flood infrastructure improvements associated with this FMS. The levee accreditation benefits would be associated with updated flood risk mapping only, and an impact analysis would not be required to confirm that the FMS does not negatively impact neighboring areas.

If various infrastructure improvements are required for the levee segment to be certified by project sponsors and accredited by FEMA, the necessary improvements should be identified early in the scope of work associated with performing this FMS. Any potential negative flood impacts associated with proposed levee improvements or the construction process for levee improvements, which may be needed to certify existing levees, should be identified by project sponsors early in the design phases of each specific levee project.

5A-4. FMSs not analyzed for flood risk benefits

The only other FMSs involving potential infrastructure improvements are FMS IDs: 142000002 and 142000003 (discussed in the following subsections), which both involve more conceptual level planning before specific flood benefits can be quantified. The remaining FMSs are non-structural strategies involving early warning systems with recurring costs, developing regulatory standards to be applied by multiple entities, complex stakeholder coordination, or other associated FMEs, FMSs, or FMPs required to be completed prior to implementation. Since these FMSs are not estimated to have a direct effect on 1% annual chance flooding due to the nature of the FMS or the early conceptual phase, no flood benefits are reported, and it is estimated there will be no negative impacts to neighboring areas.

Discussion of FMS ID: 142000002

FMS ID: 142000002 (Irrigation and Recharge Application of Captured Rainwater Runoff at Alpine) involves landscaping design and minor street runoff diversions into rainwater harvesting catchment areas in Kokernot Park in the City of Alpine. Hydrologic calculations were performed as a donation from project supporters to quantify annual water supply benefits (discussed in *Chapter 6*). However, hydrologic and hydraulic models were not available, nor were spatial files defining specific watersheds or project components. This project was selected for evaluation as a strategy since it includes multiple project locations and phases, with some portions already constructed, and others still in need of funding and design.

The strategy is primarily associated with water quality benefits and groundwater infiltration, since the proposed curb cut openings for roadway runoff diversions would only have the capacity to divert very high frequency/low intensity rain events, such as the 50% annual chance event. Since, this strategy is supported by volunteers, including the City of Alpine Street Department, who are in favor of diverting local street runoff into the City park for landscaping and infiltration purposes, this strategy was not evaluated for 1% annual chance flood risk benefits, and it is estimated to cause no negative impacts on neighboring areas.

Discussion of FMS ID: 142000003

FMS ID: 142000003 includes implementing a colonia-wide drainage system and maintenance and outreach program for roadside swales and driveway culverts at Fort Hancock. However, it first requires associated FME ID: 141000014, to be performed, which includes a SWMP for Fort Hancock. The designs developed as part of the SWMP would be used to implement this strategy in a second phase. This strategy also involves a public education and outreach component to inform residents of the importance of maintaining drainage systems. This outreach component of the strategy has a recurring cost. Since the FME ID: 141000014 is required before any proposed designs can be conceptualized, this FMS was not analyzed for flood risk benefits, and it is estimated to cause no negative impacts on neighboring areas.

Appendix 5B

Evaluation Methodology for FMPs

Appendix 5B. Project-Specific Evaluation Methodology for FMPs

This appendix explains sources of hydrologic and hydraulic models, mapping, and other information utilized to estimate pre-project and post-project benefits for specific FMPs evaluated in the Regional Flood Plan (RFP). Each of these Flood Mitigation Projects (FMPs) were analyzed to estimate potential flood benefits as well as demonstrate no negative impacts on neighboring areas. Methods and assumptions related to these evaluations are discussed for each FMP in the following sections.

5B-1. Modeling and Mapping Analysis for FMPs involving Detention/Retention Basins

Four of the FMPs discussed in this section are from the 2021 El Paso County SWMP, while the other two (EA10A and EA9A) are from the El Paso Water SWMP/Americas Ten Dam Study. All of the FMPs in this group of FMPs were modeled with HEC-HMS point discharge hydrographs applied to HEC-RAS 2D Hydraulic models. The first five projects listed below were prioritized and selected for evaluation by the Regional Flood Planning Group (RFPG) using the process for identifying potentially feasible FMPs, documented in *Chapter 4, Identification of Flood Mitigation Needs and Solutions*. The proposed EA9A project was later added to the list of evaluated FMPs by the RFPG, since it was adjacent to EA10A, it was included in the same Americas Ten Study hydrologic and hydraulic models, and it was also included in the El Paso Water SWMP. See the list of evaluated storage basin FMPs below, with corresponding Model IDs from *Chapter 2, Flood Risk Analyses*:

- **FMP ID: 143000011**, SSA4 – Proposed detention basin with sufficient hydrologic and hydraulic models and mapping available (see **Exhibit Map 20.11**)
 - Hydrologic Model ID: 14000000016 (Original Source: El Paso County SWMP)
 - Hydraulic Model ID: 14000000015 (Original Source: El Paso County SWMP)
- **FMP ID: 143000021**, SOC4 – Proposed sediment/detention basin with sufficient hydrologic and hydraulic models and mapping available (see **Exhibit Map 20.21**)
 - Hydrologic Model ID: 14000000017 (Original Source: El Paso County SWMP)
 - Hydraulic Model ID: 14000000018 (Original Source: El Paso County SWMP)
- **FMP ID: 143000024**, MON3 – Proposed sediment/retention basin with sufficient hydrologic and hydraulic models and mapping available (see **Exhibit Map 20.24**)
 - Hydrologic Model ID: 14000000019 (Original Source: El Paso County SWMP)
 - Hydraulic Model ID: 14000000020 (Original Source: El Paso County SWMP)
- **FMP ID: 143000025**, HAC3 – Proposed sediment/retention basin with sufficient hydrologic and hydraulic models and mapping available (see **Exhibit Map 20.25**)
 - Hydrologic Model ID: 14000000021 (Original Source: El Paso County SWMP)
 - Hydraulic Model ID: 14000000022 (Original Source: El Paso County SWMP)
- **FMP ID: 143000105**, EA10A – Proposed sediment/detention basin with sufficient hydrologic and hydraulic models and mapping available (see **Exhibit Map 20.105**)

- Hydrologic Model ID: 140000000029 (Original Source: Americas Ten Study)
- Hydraulic Model ID: 140000000028 (Original Source: Americas Ten Study)
- **FMP ID: 143000116**, EA9A – Proposed sediment/detention basin with sufficient hydrologic and hydraulic models and mapping available (see **Exhibit Map 20.116**)
 - Hydrologic Model ID: 140000000029 (Original Source: Americas Ten Study)
 - Hydraulic Model ID: 140000000028 (Original Source: Americas Ten Study)

Data Sources and FMP Extents

Individual mapbook figures displaying zoomed-in project locations and existing downstream flood risk areas are provided as part of **Exhibit Map 20** (see specified mapbook figure numbers listed above for each FMP). In addition, **Exhibit Map 22** shows a region-wide map of hydrologic and hydraulic model coverage extents, with coverage areas displayed according to the last two digits of the corresponding Model IDs.

Pre-project and post-project conditions for the areas associated with the six proposed basins listed above were mapped based on the hydrologic HEC-HMS models and a 2D hydraulic HEC-RAS models listed above. Four of these project area models were originally developed as part of the 2021 El Paso County Interior Drainage Study and the other two (EA10A and EA9A) were developed as part of an unpublished feasibility study recently performed by AECOM for El Paso Water (2021). The proposed EA10A and EA9A sediment/detention basins were also included in the El Paso Water SWMP for the City of El Paso (2021).

All original models obtained were modified for the purposes of the RFP. The source models were set up with outflow hydrographs from the existing conditions HEC-HMS hydrologic models applied to the corresponding proposed 2D hydraulic model terrains in selected locations toward the downstream end of each contributing watershed. As part of the RFP, the existing and proposed condition HEC-HMS hydrographs were re-applied to the 2D hydraulic HEC-RAS models with modifications for the purposes of the RFP analysis, and to ensure that the latest hydrologic model output hydrographs are consistent with the hydraulic model inputs.

Pre- and Post- Project 1% Annual Chance Risk Analyses

The original post-project conditions hydraulic models obtained from the specified sources assume that all 1% annual chance flood risk upstream of the proposed basins are detained by the basin, resulting in no flow being discharged directly downstream of each proposed basin. All other subbasins affecting discharge downstream of the project, which are applied in the existing conditions models, are still applied in the proposed conditions hydraulic models. Pre- and post-project water surface elevation grids from the FMP analyses were exported from the 2D hydraulic model results and compared to finished floor elevations of buildings within building footprint areas to estimate structures at risk.

Pre- and Post- Project 0.2% Annual Chance Risk Analyses

The 0.2% annual chance events were not modeled as part of the original studies. Since this event is required for FMP evaluations in the RFP, meteorological models were added to the existing and proposed HEC-HMS hydrologic models for each project area. The 0.2% annual

chance rainfall parameters from the same data source locations as the 1% annual chance rainfall were utilized for the pre- and post-project hydrologic and hydraulic analyses.

Diversions were set up in each applicable FMP proposed condition hydrologic models to divert all upstream runoff from the 0.2% annual chance event into a sink until the total inflow volume reached the capacity of each detention/retention structure. All excess runoff beyond the reported capacity of each structure was discharged downstream. The resulting discharge hydrograph was applied to the corresponding post-project 2D hydraulic model immediately downstream of each proposed structure.

Pre- and post- project water surface elevations were compared at downstream structures at risk to measure reductions in 0.2% annual chance flood risk. This approach assumed no outflow through a principal or auxiliary spillway. This is a conservative assumption, since outflow from principal and/or auxiliary spillways would likely limit the releases from the 0.2% annual chance flood.

However, even with the assumption noted above, FMPs for structures EA10A and EA9A from the El Paso Water SWMP (FMP IDs: 143000105 and 143000116) are estimated to have 0.2% annual chance flood capacity based on the design volumes included in the original 2009 City of El Paso SWMP. This is because existing upstream storage from both natural depressions and constructed features now contains a significant portion of the contributing watershed for each project. This existing upstream storage capacity was not accounted for when the projects were initially conceived in the 2009 SWMP.

No Negative Impact Analyses

The hydraulic analyses performed as part of the RFP demonstrated that post-project downstream water surface elevations extracted at building footprints are lower than or equal to pre-project water surface elevations. Similar positive benefits were observed throughout the study area, as would be expected since the projects add storage volume to reduce downstream flows. Therefore, there are no negative impacts estimated for the four FMPs listed above, from the El Paso County SWMP. The determination of no negative impact is based upon analysis of existing and proposed condition models, using the hydrologic HEC-HMS and hydraulic HEC-RAS models listed for each of the six FMPs referenced at the beginning of this section (Section 5B-1). The existing and proposed hydraulic model results showing depth of flooding at buildings relative to estimated Finished Floor Elevations (FEEs) are provided in **Appendix 5H** for reference. In addition, the spatial data (GIS building polygons) associated with the data table in **Appendix 5H** is provided in the “FPR14_Supplemental” geodatabase for the Region 14 RFP, named “Appendix_5H_FMP_Flooded_Structures.gdb.”

Benefit Cost Ratio

Consistent with TWDB guidelines, benefits associated with FMPs considered in the evaluation process are based upon pre-project and post-project water surface elevations relative to estimated finished floor elevations, assumed to be raised 0.5 feet above existing ground. The existing ground elevation for each building was estimated by calculating the average ground level within each building footprint, based upon the same LiDAR data used to estimate water

surface elevations. Annual structural benefits were estimated for the 1% and 0.2% annual chance events by comparing the depth of water above each finished floor elevation to the residential and commercial building depth-structure damage curves and depth-content damage curves provided in the FEMA BCA toolkit 6.0 by TWDB.

Benefit Cost Analysis (BCA) methodology was adopted from the El Paso County SWMP 2021 methods with updates applied for the purposes of the RFP, including the use of the FEMA BCA toolkit 6.0 depth-damage and depth-content curves. Each detention/retention project noted above was assumed to have annual operation and maintenance (O&M) costs of \$10,000 associated with sediment clearing. The sum of the annual structural and agricultural benefits was divided by the annualized project cost with a discount rate of 2.75% and a planning horizon of 50 years to obtain the Benefit Cost Ratio (BCR) for each project. Flooded roadways were not directly evaluated for benefits associated with the BCR, so it is anticipated that the projects will have higher BCRs than presented in the FMP evaluation table (**Appendix 4C**). A summary of the estimated BCR calculations for each of the six projects discussed in this section is provided below.

Table 5B.1. BCA Calculations for FMPs involving Detention/Retention Basins

| FMP ID | 143000116 | 143000105 | 143000024 | 143000021 | 143000011 | 143000025 |
|----------------------------------|------------------|------------------|--------------------|-----------------|------------------|------------------|
| FMP Name | EA9 | EA10 | MON3 | SOC4 | SSA4 | HAC3 |
| Total FMP Cost Sep (2020) | \$11,897,000 | \$9,647,000 | \$27,033,000 | \$2,383,000 | \$14,744,000 | \$4,619,000 |
| Discount Rate: | 2.75% | 2.75% | 2.75% | 2.75% | 2.75% | 2.75% |
| Planning Horizon (years) | 50 | 50 | 50 | 50 | 50 | 50 |
| Annuity | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 |
| Average Annual FMP Cost | \$440,676 | \$357,334 | \$1,001,327 | \$88,269 | \$546,131 | \$171,092 |
| Annual O&M | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 | \$10,000 |
| Total Annual Cost | \$450,676 | \$367,334 | \$1,011,327 | \$98,269 | \$556,131 | \$181,092 |
| Annual Benefit to Houses | \$8,367 | \$8,367 | \$200,385 | \$5,828 | \$77,198 | \$1,704 |
| Annual Benefit to Agriculture | \$4,609 | \$4,609 | \$0 | \$1,303 | \$4,581 | \$2,181 |
| Total Annual Benefit | \$12,976 | \$12,976 | \$200,385 | \$7,131 | \$81,779 | \$3,885 |
| BCR | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.0 |

5B-2. Modeling and Mapping Analysis for FMP ID: 143000100

The **FMP ID: 143000100** (NE3B) project in the El Paso SWMP (also known as Alcan Pond) is a proposed pond located in an highly developed area in northeast El Paso. This pond was originally conceived as part of a feasibility study (MCi, 2017) for El Paso Water entitled, “Northeast Sump Improvements – Hydrologic and Hydraulic Analysis” (Study ID: 89 from *Chapter 1*), where it was modeled with FLO2D software in conjunction with the Will Ruth Pond (Existing Project ID: 1400007), a proposed pond with contributing storm drain system located downstream of Alcan pond. Will Ruth Pond currently has the 100% final design plans completed, and committed funding by the Flood Infrastructure Fund.

Data Sources and FMP Extents

Exhibit Map 20.100 shows the proposed FMP extent as well as the proposed Will Ruth Pond location. The pre- and post-project conditions hydrologic HEC-HMS model (Model ID: 140000000031) and hydraulic FLO-2D model (Model ID: 140000000030) from the above-referenced feasibility study were provided by El Paso Water for the purpose of evaluating this FMP for the RFP. Consistent with the feasibility study, the post-project conditions hydraulic model for this FMP assumes that the proposed Will Ruth Pond, located downstream of Alcan pond, is constructed first. The pre-project hydraulic model assumes that neither Will Ruth Pond nor Alcan pond are constructed, and it is based upon a modified version of the model submitted to FEMA as part of the LOMR Case Number 18-06-0885P (published on June 12, 2018).

Pre- and Post- Project Risk Analyses

While Alcan pond would likely have flood risk benefits downstream of the proposed Will Ruth pond if the Will Ruth pond were not constructed, only the cost of Alcan pond, and the benefits associated with the flood risk area between Alcan pond and Will Ruth pond were considered in the BCR associated with this Project.

The pre-and post-project hydraulic models 2D models developed in FLO-2D software, with HEC-HMS point discharge hydrographs applied directly on the terrain surface, which was modified from existing conditions to represent the proposed pond in the proposed hydraulic model.

Water surface elevation grids from pre- and post-project hydraulic model results were extracted at building footprint polygons to compare depth inundation based on finished floor elevations. Finished floor elevations were assumed to be 0.5 ft above the average FLO-2D terrain elevation within the footprint of each building.

No Negative Impact Analyses

Pre- and post-project water surface elevation grids as well as depth grids were compared to assess potential negative impacts associated with the project. The comparison showed that the only locations where post project depths exceeded pre-project depths were in the location of the proposed pond. Buildings in the location of the proposed pond were not assumed to have negative impacts as the project would not be constructed if they remained in place. None of the buildings analyzed within the affected flood risk area between the two ponds were observed to have increased water surface elevations. Therefore, this FMP is estimated to have negative impacts.

The determination of no negative impact is based upon analysis of existing and proposed condition models, using the hydrologic HEC-HMS model (Model ID: 140000000031) and hydraulic FLO-2D model (Model ID: 140000000030) from the feasibility study entitled, “Northeast Sump Improvements – Hydrologic and Hydraulic Analysis” (Study ID: 89). The existing and proposed hydraulic model results showing depth of flooding at buildings relative to estimated Finished Floor Elevations (FFE) are provided in **Appendix 5H** for reference. In addition, the spatial data (GIS building polygons) associated with the data table in **Appendix 5H** is provided in the “FPR14_Supplemental” geodatabase for the Region 14 RFP, named “Appendix_5H_FMP_Flooded_Structures.gdb.”

Benefit Cost Ratio

Consistent with TWDB guidelines, benefits associated with FMPs considered in the evaluation process are based upon pre-project and post-project water surface elevations relative to estimated finished floor elevations, assumed to be raised 0.5 feet above existing ground. The existing ground elevation for each building was estimated by calculating the average ground level within each building footprint, based upon the same FLO-2D terrain used to estimate water surface elevations. Annual structural benefits were estimated for the 1% and 0.2% annual chance events by comparing the depth of water above each finished floor elevation to the residential and commercial building depth-structure damage curves and depth-content damage curves provided in the FEMA BCA toolkit 6.0 by TWDB.

Benefit Cost Analysis (BCA) methodology was adopted from the El Paso County SWMP 2021 methods with updates applied for the purposes of the RFP, including the use of the FEMA BCA toolkit 6.0 depth-damage and depth-content curves. The project was assumed to have annual operation and maintenance (O&M) costs of \$5,000 associated with clearing the pond and contributing system of trash/sediment/debris. The sum of the annual structural benefits was divided by the annualized project cost with a discount rate of 2.75% and a planning horizon of 50 years to obtain the Benefit Cost Ratio (BCR) for each project. Flooded roadways were not directly evaluated for benefits associated with the BCR, so it is anticipated that the projects will have higher BCRs than presented in the FMP evaluation table (**Appendix 4C**). A summary of the estimated BCR calculations for FMP ID: 143000100 is provided below.

Table 5B.2. BCA Calculations for FMP ID: 143000100

| | |
|----------------------------------|------------------|
| FMP ID | 143000100 |
| FMP Name | NE3B |
| Total FMP Cost Sep (2020) | \$21,234,000 |
| Discount Rate: | 2.75% |
| Planning Horizon (years) | 50 |
| Annuity | 0.037 |
| | |
| Average Annual FMP Cost | \$786,527 |
| Annual O&M | \$5,000 |
| Total Annual Cost | \$791,527 |
| | |
| Annual Benefit to Houses | \$39,646 |
| Annual Benefit to Agriculture | \$0 |
| Total Annual Benefit | \$39,646 |
| | |
| BCR | 0.1 |

5B-3. Modeling and Mapping Analysis for FMPs Affecting Doniphan Drive

This subsection documents modeling and mapping assumptions for two FMPs (**FMP IDs: 143000111 and 143000113**), which both address flooding on Doniphan Drive in the cities of El Paso, Texas and Sunland Park, New Mexico. This area experiences repetitive localized flooding and sediment/debris damage to multiple buildings and major access road, Doniphan Drive. This is a high priority flood improvement area for El Paso Water. Both FMP IDs: 143000111 and 143000113 are included in the El Paso Water SWMP as NW3 and NW 26, respectively.

Data Sources and FMP Extents

El Paso Water funded a feasibility study (URS, 2014) for FMP ID: 143000111 entitled, “Doniphan Storm Water Pump Stations PS1 and PS2 System Evaluation and Potential Improvements” (Study ID: 90). These pump station locations can be seen along with other relevant stormwater infrastructure in the area in **Exhibit Map 16.111**. The HEC-HMS hydrologic model associated with this study is identified as Model ID: 140000000035. The study recommends a proposed pump station replacement of PS1 with a new 110 cfs pump (1% annual chance capacity) and proposed storm drain system to relieve flooding in localized ponding areas on Doniphan, also shown in **Exhibit Map 16.111**. The hydrologic modeling analysis from the feasibility study considers the following drainage components:

- Existing overland drainage for Doniphan Drive;
- Channel routing for Doniphan Ditch;
- Contributing flows to existing Pump Station, PS1;
- Contributing flows to existing Pump Station, PS2; and
- Storm drain routing of principal spillway outfall for Keystone Dam, a 96-inch diameter RCP connected to Pump Station 1, which discharges to the Rio Grande.

A later feasibility study (AECOM, 2016) for FMP ID: 143000113 entitled, “Technical Memorandum with Project Recommendation, Montoya Drain H&H Analysis” (Study ID: 38) was also performed for El Paso Water to further investigate alternative improvements for flooding along Doniphan Drive with a proposed pond and a constructed wetland (a nature-based solution). The proposed pond and conduit/channel routing flow to it are depicted in **Exhibit Map 16.113**. The hydrologic and storm drain routing HEC-HMS model from the initial feasibility study (Study ID: 90, discussed above) was used as the base model for existing conditions, and it was refined as part of the 2016 study (Model ID: 140000000034).

The 2016 feasibility study defines existing 1% annual chance flood risk based upon the 2013 Courchesne Interior Drainage Study (Study ID: 91). However, since 2013, a more recent interior drainage study has been completed in the area, which is the Doniphan Corridor Interior Drainage Study (Study: ID 64). Mapping from the Doniphan Corridor study is partially incorporated in both the 2019 Preliminary FEMA (Study ID: 21) mapping for El Paso County, as well as the recent 2021 El Paso County Interior Drainage Study (Study: ID 24).

Pre- and Post- Project Risk Analyses

Based upon the history of hydrologic and hydraulic models discussed above, the most updated hydrologic model available for specific design purposes related to these two FMPs is the hydrologic model associated with the 2016 feasibility study (Model ID: 14000000034). Since the Preliminary FEMA mapping in this area is based upon the Natural Valley Analysis (Study ID 41), which assumes there are no Rio Grande levees in place, the most appropriate existing conditions hydraulic model for the 1% AC risk mapping in this area is estimated to be the 2021 El Paso County Interior Drainage Study (Study ID: 24, Model ID: 14000000004), which is a FLO-2D hydraulic model with point discharges applied from a corresponding HEC-HMS model.

Exhibit Maps 16.111 and **16.113** both depict existing 1% annual chance flood risk in this area, which is based upon Study ID: 24 and the following assumptions:

- The existing Rio Grande levees (which are not accredited by FEMA in this area) are in place;
- Tailwater of the interior drainage outfalls to the Rio Grande in the area are associated with typical base flow in the river, and not the 1% annual chance flood in the Rio Grande. This assumption was applied in the El Paso County Interior Drainage study based upon a coincident flooding analysis of the Rio Grande with local interior flooding.

In the pre-project conditions evaluation for both FMP IDs: 143000111 and 143000113, the 1% annual chance water surface elevation raster associated with the El Paso County Interior Drainage Study (Study ID: 24, Model ID: 14000000004) was compared to finished floor elevations extracted from the associated FLO-2D model terrain (assuming finished floor elevations are 0.5 ft higher than existing ground) at intersecting building footprint locations. This comparison was used to estimate the number of existing structures and population at risk.

The Doniphan Pump Station 2014 feasibility study assumes a storm drain system and pump station with 1% annual chance capacity would be installed along repetitive flooding locations of Doniphan and the surrounding area. Therefore, the post-project conditions for FMP ID: 143000111 (Doniphan Pump Station 1 Reconstruction Project, NW3) assume that all the localized 1% annual chance flood risk areas shown in **Exhibit Maps 16.111** are mitigated.

Based upon the information available from the 2016 feasibility study (Study ID: 38) and the recently updated El Paso Water SWMP, the proposed FMP ID: 143000113 (the Montoya Pond/Wetland Project, NW26) is only anticipated to relieve localized flooding coming from the northwest along Doniphan, which does not inundate any buildings according to the pre-project 1% annual chance risk mapping. Therefore, no buildings are anticipated to be removed from flood risk for this FMP.

However, the FMP ID: 143000113 is expected to reduce flooding coming from the northwest on Doniphan toward the buildings that are estimated to be removed from flooding in the post-project conditions for FMP ID: 143000111. Therefore, the number of structures removed from flood risk in FMP ID: 143000111 was estimated to be equal to the number of structures with reduced 1% annual chance flooding in FMP ID: 143000113. Based upon vicinity of the project to the Rio Grande levees, which are not designed for the 0.2% annual chance flood, there are no 0.2% annual chance flood risk benefits assumed for either of the FMPs.

No Negative Impact Analyses

Based upon the modeling and information available about **FMP ID: 143000111**, a new storm drain system along Doniphan Drive is proposed to route 1% annual chance runoff to a proposed reconstructed pump station with additional capacity relative to the existing Pump Station 1, discharging directly to the Rio Grande. This is expected to improve the performance of the Keystone Dam 96-inch RCP outfall conduit, which currently routes stormwater through the existing Pump Station 1. At this conceptual phase of design, and since the nature of flooding in this area is associated with localized flooding, there are no project components or modeling results which are anticipated to have negative impacts on neighboring areas.

This determination of no negative impact for **FMP ID: 143000111** is based upon engineering judgment after reviewing the feasibility study entitled, “Doniphan Storm Water Pump Stations PS1 and PS2 System Evaluation and Potential Improvements” (Study ID: 90) and analysis of existing condition models, using the hydrologic HEC-HMS model (Model ID: 140000000035) and the hydraulic FLO-2D model (Model ID: 140000000004) discussed in this section (Section 5B-3).

For **FMP ID: 143000113**, runoff coming from the northwest, along Doniphan is proposed to be routed to a proposed pond by channel or storm drain. The proposed pond will add storage capacity to the system, and discharge from the pond is proposed to be pumped into the Rio Grande with a new pump station. A series of new pump stations are also proposed to control groundwater levels in the area, creating more additional storage volume, and benefitting the Montoya Drain outfall to the Rio Grande which has historically reported issues related to high groundwater tables in the area. At this conceptual phase of design, and since the nature of flooding in this area is associated with localized flooding, there are no project components or modeling results which are anticipated to have negative impacts on neighboring areas.

This determination of no negative impact for **FMP ID: 143000113** is based upon engineering judgment after reviewing the feasibility study entitled, “Technical Memorandum with Project Recommendation, Montoya Drain H&H Analysis” (Study ID: 38) and analysis of existing condition models, using the hydrologic HEC-HMS model (Model ID: 140000000034) and the hydraulic FLO-2D model (Model ID: 140000000004) discussed in this section (Section 5B-3).

Benefit Cost Ratio

Consistent with TWDB guidelines, benefits associated with FMPs considered in the evaluation process are based upon pre-project and post-project water surface elevations relative to estimated finished floor elevations, assumed to be raised 0.5 feet above existing ground. The existing ground elevation for each building was estimated by calculating the average ground level within each building footprint, based upon the same FLO-2D terrain used to estimate water surface elevations. Annual structural benefits were estimated for the 1% and 0.2% annual chance events by comparing the depth of water above each finished floor elevation to the residential and commercial building depth-structure damage curves and depth-content damage curves provided in the FEMA BCA toolkit 6.0 by TWDB.

Benefit Cost Analysis (BCA) methodology was adopted from the El Paso County SWMP 2021 methods with updates applied for the purposes of the RFP, including the use of the FEMA BCA toolkit 6.0 depth-damage and depth-content curves. Each project was assumed to have annual operation and maintenance (O&M) costs of \$5,000 associated with maintaining the pumps and

stormwater conveyance systems. The sum of the annual structural benefits was divided by the annualized project cost with a discount rate of 2.75% and a planning horizon of 50 years to obtain the Benefit Cost Ratio (BCR) for each project. Flooded roadways were not directly evaluated for benefits associated with the BCR, so it is anticipated that the projects will have higher BCRs than presented in the FMP evaluation table (**Appendix 4C**). A summary of the estimated BCR calculations for FMP ID: 143000100 is provided below.

Table 5B.3. BCA Calculations for FMPs Affecting Doniphan Drive

| FMP ID | 143000111 | 143000113 |
|----------------------------------|------------------|--------------------|
| FMP Name | NW3 | NW26 |
| Total FMP Cost Sep (2020) | \$16,132,000 | \$35,568,000 |
| Discount Rate: | 2.75% | 2.75% |
| Planning Horizon (years) | 50 | 50 |
| Annuity | 0.037 | 0.037 |
| | | |
| Average Annual FMP Cost | \$597,544 | \$1,317,471 |
| Annual O&M | \$5,000 | \$5,000 |
| Total Annual Cost | \$602,544 | \$1,322,471 |
| | | |
| Annual Benefit to Houses | \$2,307 | \$506 |
| Annual Benefit to Agriculture | \$0 | \$0 |
| Total Annual Benefit | \$2,307 | \$506 |
| | | |
| BCR | 0.0 | 0.0 |

5B-4. Modeling and Mapping Analysis for FMP ID: 143000097

The El Paso Water SWMP identifies **FMP ID: 143000097** as a channel improvement project in northwest El Paso city limits, named NW16. The channel segment is also known as the Upper White Spur Drain, which extends from Village Court to Doniphan Drive. The downstream channel segment on the west side of the Doniphan Drive crossing has been widened; however, the FMP area is identified to be undersized in the SWMP (see FMP area identified in **Exhibit Map 20.97**). The existing concrete-lined channel has a depth of 3 feet (ft) with side slopes of 1.25 horizontal (H) : 1 vertical (V), and a bottom width of 6 ft. The proposed channel is designed to be 4.5 ft deep with side slopes of 1.25H: 1V, and a bottom width of 6 ft..

Data Sources and FMP Extents

Due to the significant portion of drainage area contributing to this channel from SH20 (Mesa Street), the most appropriate base hydrologic model was assumed to be from the 2019 TXDOT feasibility study for SH20 (Study ID: 59, Model ID: 140000000002), entitled “Drainage Study for SH 20 (Mesa Street) From Doniphan Drive to Texas Avenue.” Spatial hydrologic modeling layers such as drainage areas and longest flowpaths, as well as the applicable hydrologic HEC-HMS model were obtained from the SH20 study and were modified for the purposes of the RFP evaluation of FMP ID: 143000097. The base hydrologic model was modified in the RFP to create an updated hydrologic HEC-HMS model (Model ID: 1400000000033) to estimate flows contributing to the White Spur Drain.

The most appropriate hydraulic model identified as the base model for this FMP (before modifications) is the 2019 Preliminary FEMA hydraulic 2D HEC-RAS model (Model ID: 1400000000001). As part of the evaluation of FMP ID: 143000097 for the RFP, the base hydraulic model was modified to develop a pre-project and post-project conditions 2D hydraulic HEC-RAS model (Model ID: 1400000000032).

Pre- and Post- Project Risk Analyses

Output point discharge hydrographs from the modified HEC-HMS model were released onto the HEC-RAS 2D hydraulic model terrain within the White Spur Drain channel. The Preliminary FEMA hydraulic model terrain was developed by FEMA to allow flow to pass through the downstream Doniphan Drive culvert crossing and subsequent downstream crossings with the placement of breaklines rather than the use of 2D connections for detailed culvert hydraulic analyses. As part of the RFP analysis, the 2D hydraulic model mesh was modified with revised breaklines around the White Spur Drain, and the Doniphan Drive culvert crossing was modeled as a 2D connection. The hydraulic model results in the FMP area showed that the upstream portion of the White Spur Drain is undersized, resulting in out of bank flooding affecting commercial buildings adjacent to the channel. However, the model shows flow eventually draining back into the channel further downstream, just upstream of the Doniphan Drive crossing.

Due to limitations associated with 2D models simulating channelized flow, and since survey data were not available for channel flowlines or downstream crossing dimensions, a field visit was conducted to measure relevant channel, culvert, and headwall dimensions. Then, additional CulvertMaster and Flowmaster models were developed to check capacities of existing and

proposed channel dimensions, as well as the downstream crossings. Since proposed channel and culvert dimensions were estimated to contain existing 1% AC flows based on the different hydraulic modeling analyses performed, the buildings adjacent to the existing channels were estimated to be removed from flood risk in post-project conditions. Due to the uncertainties associated with capacities of contributing storm drains conveying the 0.2% annual chance runoff into the channel from the various inlets and pipe networks draining to the channel, this event was not modeled in detail, and the FMP was assumed to have no benefits for the 0.2% annual chance flood.

No Negative Impact Analyses

Channel widening projects can sometimes present an increased risk to downstream properties if out of bank flooding from pre-project conditions is contained in post-project conditions, and the channel is undersized further downstream. This FMP is not estimated to have that issue, as the downstream channel segment is already significantly wider (~13 ft bottom width, 6ft depth) than the upstream segment being widened from a bottom width of 3ft to 6ft, with 4.5 ft depth, and flow from the channel is allowed to interact with flow in the adjacent pond downstream and northwest of the channel. Furthermore, pre-project out of bank flooding was observed to re-enter the channel further downstream in the 2D hydraulic model results, which indicates the total flow in the channel is not increasing. As an additional test, the full flows estimated to enter the upper channel segment based on the hydrologic modeling results were released downstream of the Doniphan crossing, and results showed the same flood extents as pre-project conditions. Based upon the analyses described above, it is estimated that this FMP would cause no negative impacts on neighboring areas.

The determination of no negative impact is based upon analysis of existing and proposed condition models, using the hydrologic HEC-HMS model (Model ID: 140000000033) and hydraulic HEC-RAS 2D model (Model ID: 140000000032) described in this section. The existing and proposed hydraulic model results showing depth of flooding at buildings relative to estimated Finished Floor Elevations (FFE) are provided in **Appendix 5H** for reference. In addition, the spatial data (GIS building polygons) associated with the data table in **Appendix 5H** is provided in the "FPR14_Supplemental" geodatabase for the Region 14 RFP, named "Appendix_5H_FMP_Flooded_Structures.gdb."

Benefit Cost Ratio

Consistent with TWDB guidelines, benefits associated with FMPs considered in the evaluation process are based upon pre-project and post-project water surface elevations relative to estimated finished floor elevations, assumed to be raised 0.5 feet above existing ground. The existing ground elevation for each building was estimated by calculating the average ground level within each building footprint, based upon the same FLO-2D terrain used to estimate water surface elevations. Annual structural benefits were estimated for the 1% and 0.2% annual chance events by comparing the depth of water above each finished floor elevation to the residential and commercial building depth-structure damage curves and depth-content damage curves provided in the FEMA BCA toolkit 6.0 by TWDB.

Benefit Cost Analysis (BCA) methodology was adopted from the El Paso County SWMP 2021 methods with updates applied for the purposes of the RFP, including the use of the FEMA BCA

toolkit 6.0 depth-damage and depth-content curves. The project was assumed to have annual operation and maintenance (O&M) costs of \$1,000 associated with trash and debris removal from the channel and contributing storm drain systems. The sum of the annual structural benefits was divided by the annualized project cost with a discount rate of 2.75% and a planning horizon of 50 years to obtain the Benefit Cost Ratio (BCR) for each project. Flooded roadways were not directly evaluated for benefits associated with the BCR, so it is anticipated that the projects will have higher BCRs than presented in the FMP evaluation table (**Appendix 4C**). A summary of the estimated BCR calculations for FMP ID: 143000097 is provided below.

Table 5B.3. BCA Calculations for FMP ID: 143000097

| | |
|----------------------------------|------------------|
| FMP ID | 143000097 |
| FMP Name | NW16 |
| Total FMP Cost Sep (2020) | \$1,570,000 |
| Discount Rate: | 2.75% |
| Planning Horizon (years) | 50 |
| Annuity | 0.037 |
| | |
| Average Annual FMP Cost | \$58,154 |
| Annual O&M | \$1,000 |
| Total Annual Cost | \$59,154 |
| | |
| Annual Benefit to Houses | \$2,826 |
| Annual Benefit to Agriculture | \$0 |
| Total Annual Benefit | \$2,826 |
| | |
| BCR | 0.0 |

5B-5. Modeling and Mapping Analysis for FMP ID: 143000003

The City of San Elizario has communicated to the RFPG several flooding issues associated with their historic district. A 2021 feasibility study was identified, entitled, “Drainage Feasibility Study, Socorro Rd. Intersections with San Antonio St. & Main St.” (Study ID: 49). The feasibility study used TXDOT aerial imagery and topography to delineate a 48-acre drainage area, and used the Rational Method to estimate a proposed 1% annual chance runoff volume of 10.4 ac-ft. The study identified three alternatives for flooding locations in San Elizario:

- Alternative 1 - An 11.5 ac-ft regional pond with contributing storm drain system (\$758,493);
- Alternative 2 - A series of park ponds with a total capacity of 6.7 ac-ft (\$910,391); and
- Alternative 3 - A small pond with a 0.34 ac-ft capacity (\$192,375)

The recommended alternative from the feasibility study is the Alternative 1; however, **FMP ID: 143000003** is associated with Alternative 3 from the feasibility study. The approximate localized flooding extent estimated from the feasibility study is shown in **Exhibit Map 20.03**.

Data Sources and FMP Extents

An analysis performed as part of the RFP, reviewing 2D Preliminary FEMA and Fathom hydraulic model results. In addition, the 2014 LiDAR topography data associated with the Preliminary FEMA study was analyzed in the area, along with aerial imagery to estimate existing flow patterns. A copy of the Preliminary FEMA hydrologic HEC-HMS model (Model ID: 140000000011) for Work Area 7 (WA7) was utilized as the hydrologic model for this FMP (Model ID: 140000000037). Similarly, a copy of the Preliminary FEMA 2D hydraulic HEC-RAS model (Model ID: 140000000001) for WA7 was utilized as the hydraulic model for this FMP (Model ID: 140000000036).

Pre- and Post- Project Risk Analyses

The analysis did not agree with the extent of the drainage area delineated in the feasibility study, which prevented the RFPG from recommending Alternative 1. It is anticipated that in order for the Alternative 1 pond to provide flood benefits for a drainage area of the size estimated in the feasibility study (48 acres), a more extensive storm drain network than the one proposed would be necessary, which was not reflected in the proposed cost for the alternative.

However, through continued coordination with local stakeholders at the City of San Elizario, specific known localized flooding areas near the proposed Alternative 3 small pond location were identified (circled in **Exhibit Map 20.03**). In reference to Alternative 3, the feasibility study states, “This alternative was identified by the City of San Elizario officials due to its practical and close proximity location to the flooding intersections.”

A small local drainage area that could be captured by Alternative 3 without an extensive storm drain network was delineated at approximately 3 acres. City of San Elizario utilizes the City of El Paso Drainage Design Manual (COEP, 2008) to regulate stormwater design. The feasibility study utilized “El Paso Design Standards for Construction,” dated June 2008 (COEP-DSC) to estimate the 1% annual chance volume required for retention basins such as the Alternative 3 pond. These standards require a 4-inch rainfall depth for the 1% annual chance event, which is

between the 12-hour and 24-hour duration rainfall depth in this area according to NOAA Atlas 14 rainfall. Assuming the reduced drainage area of approximately 3 acres results in a 1% annual chance volume of 0.65 acre-feet.

Since the proposed Alternative 3 volume is 0.34 acre-feet, it is not anticipated to contain the 1% annual chance event based on these standards. Assuming a similar storm duration as the design standards (between 12-hour and 24-hour) results in the proposed pond having an estimated capacity to contain an event between the 20% and 10% annual chance storm. Since a minimum time of concentration is assumed for a drainage area of 3 acres, a shorter duration storm intensity is more applicable to the site; so it is estimated that the pond would relieve localized flooding in this known ponding area for approximately the 10% annual chance level of service. This is in alignment with the RFPG goal to remove 40% of the low water crossings from 10% annual chance floodplain by 2033, and to remove 90% of low water crossings in the region from 10% annual chance floodplain by 2053.

This Alternative 3 pond location could intercept runoff draining toward one of the repetitive ponding areas through curb cuts or minimal storm drain infrastructure. Therefore, with approval from the RFPG and local City of San Elizario stakeholders, Alternative 3 was selected for evaluation as part of the RFP.

Since the Preliminary FEMA 2D hydraulic model (Model ID: 140000000001) is considered the best available model in this location, and it does not delineate significant flood depths in the repetitive flooding locations, there are no structures estimated to be removed from flooding due to the FMP.

No Negative Impact Analyses

Since this a small-scale project to alleviate localized road flooding, and it adds storage volume to the project area, there are estimated to be no negative impacts on neighboring areas associated with this FMP. This determination of no negative impact is based upon engineering judgment after reviewing the feasibility study entitled, “Drainage Feasibility Study, Socorro Rd. Intersections with San Antonio St. & Main St.” (Study ID: 49) and analysis of existing condition runoff patterns in the contributing drainage area, using a copy of the Preliminary FEMA 2D hydraulic model for WA7 (Model ID: 1400000000036).

Benefit Cost Ratio

Since there were no 1% or 0.2% annual chance benefits associated with this project, a BCA of 0 was assumed for the FMP.

5B-6. Modeling and Mapping Analysis for FMP ID: 143000005

The 2019 TXDOT feasibility study for **FMP ID: 143000005** (SH 20 Drainage improvements) is entitled “Drainage Study for SH20, from Doniphan Drive to Texas Avenue” (Study ID: 59). The report documents a hydrologic HEC-HMS (Model ID: 140000000002) and hydraulic EPA SWMM (Model ID: 140000000012) modeling analysis of 39 culvert/storm drain crossings on SH20 (Mesa Street) on the Westside of the City of El Paso. The capacity of each crossing was analyzed and reported for roadway gutter/inlet level of service as well as crossing capacity level of service.

Data Sources and FMP Extents

Eight drainage improvement projects are proposed in the feasibility study (all of which were evaluated for inclusion in this FMP) to increase roadway drainage levels of service from less than the 20% annual chance in pre-project conditions to the 10% annual chance level of service in post-project conditions. The projects are identified and prioritized with documented cost estimates in the feasibility study (Study ID: 59). Descriptions of the proposed improvements are documented in the FMP narratives in **Appendix 4D** of *Chapter 4*, and the locations of each improvement are shown in **Exhibit Map 20.05**, along with relevant existing inlet and conduit locations. A summary of the proposed projects is below:

- Six projects include expanding the capacity of existing inlets and/or adding new inlets and connecting them to existing crossings;
- One project includes lengthening a weir that conveys flow to an existing crossing; and
- One project includes increasing the capacity of inlets and increasing the capacity of the existing crossing to which they are connected.

Pre- and Post- Project Risk Analyses

Since all of the projects are proposed to only increase levels of service for roadway flooding to the 10% annual chance, this FMP was estimated to have no 1% annual chance benefits affecting buildings or roadways. While this outcome does not achieve a 1% annual chance level of service at each crossing, it is in alignment with the RFGP goal of removing 40% of low water crossings from the 10% annual chance floodplain in the region by 2033, and removing 90% of low water crossings from the 10% annual chance floodplain by 2053.

No Negative Impact Analyses

All of the proposed projects would increase runoff to existing crossings, but only one project includes expanding the crossing which receives the additional runoff. To investigate potential negative impacts related to the eight proposed projects, the level of service of each existing crossing that is proposed to receive increased runoff due to the projects was reviewed. Based on the EPA SWMM hydraulic model results, two of the crossings that are proposed to receive increased runoff have less than the capacity needed to convey the 1% annual chance flood:

- Crossings 9A and 9B, a 36” Steel pipe and a 36” Reinforced Concrete Pipe (RCP) located near the intersection of Vin Granada and SH20
 - Associated with Improvement 10-3 to “Increase the capacity of the inlets and crossing at 9A & 9B by 30 cfs”

- Crossing 18, a 48" RCP located near the Baltimore Avenue/SH20 intersection
 - Associated with Improvement 10-7 to "Add inlets at the sag near crossing 18. Connect the inlets to crossing 18. Estimated capacity: Approximately 50 cfs"

At the locations listed above, the following data were reviewed to assess potential negative impacts associated with increasing conveyance to crossings that are undersized for the 1% annual chance flood:

- Existing drainage infrastructure;
- HEC-HMS and EPA SWMM inputs/results;
- Existing downstream flood risk boundaries based on Preliminary FEMA 1% annual chance floodplains; and
- Overflow flooding patterns and contributing drainage areas based on 2014 LiDAR topography associated with the Preliminary FEMA 2D hydraulic model

At the location of proposed Improvement 10-3, the two drainage areas contributing to the inlets that are proposed to have increased capacity/conveyance (C_9A_1 and C_9B_1) are significantly smaller (~52 acres and ~19 acres, respectively) than the drainage area of Flowpath No. 20A (C_8_1, ~588 acres), which would receive the increased runoff due to the improvements. As expected, based on the difference in drainage area sizes, there are significant differences in lag times/timing of peak flows (6.7 minutes for C_9A_1 and 6 minutes for C_9B_1 vs. 17.2 minutes for C_8_1). Therefore, the anticipated increased runoff associated with the 30 cfs increased capacity of the inlets and crossing at Improvement 10-3 is expected to arrive much sooner than the approximate 1,768 cfs peak flow of the receiving stream (Crossing 8, Flowpath No. 20A), and any impact to the peak flow of the receiving stream is expected to be negligible. In addition, the 1% annual chance floodplain is contained within the banks of the channel of the receiving stream for more than 2,000 feet downstream of the outfall location from Improvement 10-3. Based on the information above, the project Improvement 10-3 is not estimated to cause negative impacts on neighboring areas.

At the location of proposed Improvement 10-7, the pre-project 1% annual chance event is currently estimated to cause 120 cfs to overflow at Crossing 18, with overflow draining downstream (southwest) down Baltimore Avenue. By installing new inlets at the sag located on East Baltimore Avenue, where there is currently a grate inlet, any existing overflows associated with the 1% annual chance event are not expected to change since there is no new flow being directed into the drainage area, and the roadway inlets are not designed to convey the 1% annual chance flood. Based on the information above, the project Improvement 10-3 is not estimated to cause negative impacts on neighboring areas.

Based on the analyses of the two projects above, and since the other 6 proposed projects are estimated to improve 10% annual chance conveyance to crossings which are reported to have capacity for greater than the 1% annual chance flood, there are estimated to be no negative impacts on neighboring areas associated with this FMP. This determination of no negative impact is based upon engineering judgment after reviewing the feasibility study entitled, "Drainage Study for SH20, from Doniphan Drive to Texas Avenue" (Study ID: 59) and analysis of existing condition models, using the hydrologic HEC-HMS (Model ID: 14000000002) and hydraulic EPA SWMM (Model ID: 140000000012).

Benefit Cost Ratio

Since there were no 1% or 0.2% annual chance benefits associated with this project, a BCA of 0 was assumed for the FMP.

5B-7. Non-structural FMPs that were not Analyzed

The two remaining FMPs are non-structural FMPs, and were not analyzed with modeling or mapping data.

FMP ID: 143000007 (flood gage and flood gates for low water crossings in Marfa) was not analyzed for 1% annual chance flood benefits or impacts, since there is no flood infrastructure proposed which would have a measurable effect on flood conditions. The determination of no negative impact is based upon engineering judgment.

Since the **FMP ID: 143000009** is a non-structural FMP associated with Hudspeth County developing and implementing a floodplain ordinance to regulate development, a hydrologic and hydraulic analysis was not performed, and the post-project level of service is not applicable. The determination of no negative impact is based upon engineering judgment.

Appendix 5C

FMEs Recommended by the RFPG

Table 5C. Flood Management Evaluations Recommended by the RFPG

| FME ID | FME Name | Description | Associated Goals | Counties | HUC8s | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost | RFPG Recommendation (Y/N) | Reason for Recommendation |
|-----------|---|--|--|----------|--|-----------------|------------------------------|---|--|----------------|----------------------|---------------------------|--|
| 14100001 | Develop a plan for a Sediment and Vegetation Control Program in the Rio Grande at El Paso | Assess Rio Grande capacity in El Paso County considering updated hydrology, sediment, and vegetation conditions. Establish maintenance program with minimum risk-based channel capacity. Address maintenance agreements between U.S. and Mexico. | 14007003, 14004001 | El Paso | 13030102, 13040100 | 110.7 | Riverine | El Paso Water, El Paso County, EPCWID1 | USIBWC, El Paso Water, El Paso County, Doña Ana County, Hudspeth County, EPCWID1 | No | \$ 107,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100002 | Develop H&H Models for Cibolo Creek and arroyos through the City of Presidio, and develop an FMP for flood reduction of buildings and emergency access roadways. | Develop H&H models for Cibolo Creek and the City of Presidio arroyos to evaluate flood risk. Develop FMPs, an interior drainage analysis for east Cibolo Creek levee, and a coincident storm analysis for Cibolo Creek, the Rio Conchos, and the Rio Grande. | 14007003, 14014002, 14009002, 14009004 | Presidio | 13040201 | 10.2 | Riverine | Presidio city, Presidio County | Presidio city, Presidio County, USIBWC, USACE | No | \$ 183,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100003 | Arroyo Siphon at SH20 near Tornillo | Coordinate with TXDOT to install siphon at SH20 to prevent road from overtopping and stormwater from entering EPCWID1 canal system. | 14010001, 14010002 | El Paso | 13040100 | 0.1 | Riverine | El Paso County, EPCWID1, TXDOT | El Paso County, EPCWID1, TXDOT | No | \$ 38,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100004 | Lower Mesa Drain Improvements at El Paso | Assess capacity of upstream reservoirs; develop detailed hydraulic model of Lower Mesa Drain to design 30+ culvert improvements; assess capacity of Mesa Drain to accept runoff without impacting downstream agricultural property. | 14007003, 14009001, 14009003 | El Paso | 13040100 | 5.6 | Urban/Local | El Paso Water, El Paso County, EPCWID1 | El Paso Water, El Paso County, EPCWID1 | No | \$ 689,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100005 | Develop solution for flooding of San Elizario historic district, and localized flooding in San Elizario and adjacent communities | Develop Stormwater Master Plan for San Elizario, including drainage swales to convey runoff into the River Drain and relieve localized ponding, as well as plantings along flowpaths for butterfly habitat. | 14009001, 14009003 | El Paso | 13040100 | 7.3 | Urban/Local | San Elizario city, El Paso County | San Elizario city, El Paso County | No | \$ 73,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100006 | Increase Storage Capacity of Fort Bliss Sump | Excavate Fort Bliss Sump while avoiding newly delineated wetland to increase storage capacity of sump. Requires continued coordination with U.S. Army due to project location on Fort Bliss. | 14009001, 14009003 | El Paso | 13040100 | 0.7 | Urban/Local | El Paso Water | U.S. Army, El Paso Water | No | \$ 30,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100008 | Sediment Control at Alamito and Ternereros Creek | Design sediment control structures on Alamito Creek and Ternereros Creek upstream of confluence with the Rio Grande to reduce sediment in the Rio Grande and reduce USIBWC maintenance burden. | 14004002, 14011001 | Presidio | 13040201, 13040202, 13040203, 13040204, 13070005, 13070006, 13050004 | 1621.9 | Riverine | Presidio County | USIBWC, Presidio County | No | \$ 111,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000010 | Develop city-wide drainage study and stormwater master plan for Pecos | Develop city-wide drainage study and stormwater master plan for City of Pecos and adjacent Lindsay Census Designated Place. Develop detailed H&H models and floodplain maps. Evaluate FMP alternatives. | 14014001, 14009002, 14009004, 14010001, 14010002 | Reeves | 13070003, 13070001 | 23.1 | Urban/Local, Playa, Riverine | Pecos city, Lindsay CDP, Reeves County, TXDOT | Pecos city, Lindsay CDP, Reeves County, TXDOT | No | \$ 92,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000012 | Dam Improvements at Comanche Creek Reservoir at Fort Stockton | Inspect and evaluate rehabilitation improvements for Comanche Creek Reservoir to protect Fort Stockton from similar flooding to that which occurred on April 4, 2004. | 14014001, 14009002, 14009004, 14010001, 14010002 | Pecos | 13070007 | 6.1 | Urban/Local, Riverine | Fort Stockton city, Pecos County | Fort Stockton city, Pecos County | Yes | \$ 68,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000014 | Develop a Colonia-wide Drainage System at Fort Hancock | Conduct surveys and drainage study to define flood areas, size 5th St crossing structures, develop H&H models, and propose FMPs. Address flooding at Hwy 20, Mustang Rd, and complete Supplemental Watershed Plans for Camp Rice Dam 1, Alamo Dam 3. | 14014001, 14009002, 14009004, 14010001, 14010002 | Hudspeth | 13040100 | 22.0 | Urban/Local, Riverine | Hudspeth County | Fort Hancock CDP, Hudspeth County | Yes | \$ 795,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000015 | Prioritize arroyos on their likelihood of producing sediment/ debris flows | Investigate uncontrolled arroyos that have created flood damages and high maintenance costs. Develop method to estimate relative production of sediment for uncontrolled arroyos and estimate added flood risk associated with drainage conveyance blockage. | 14009001, 14009003, 14010001, 14010002 | El Paso | 13030102, 13040100, 13050003 | 1011.0 | Riverine | El Paso Water, El Paso County, EPCWID1 | El Paso Water, El Paso County, EPCWID1 | No | \$ 70,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000018 | Conduct flood risk assessment at El Paso locations where drainage is controlled by river stage, and there are significant flood risks on the non-river side of the levee. | Identify the Rio Grande outfalls that are most susceptible to blockage, and most likely to allow flood damage during periods of high river stage. | 14009001, 14009003, 14004001 | El Paso | 13030102, 13040100 | 110.7 | Urban/Local, Riverine | El Paso Water, El Paso County | El Paso Water, El Paso County | No | \$ 70,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000019 | Plan for mitigation of drainage controls where ground water reduces storm water conveyance capacity in the Montoya Drain | Perform H&H modeling to develop a FMP for increasing the capacity of Montoya Drain through measures to control groundwater intrusion into the drain. | 14007003 | El Paso | 13030102 | 0.3 | Urban/Local | El Paso Water, EPCWID1 | El Paso Water, EPCWID1, Doña Ana County, EBID | No | \$ 130,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000021 | Develop city-wide drainage study and stormwater master plan for the City of Kermit. | Develop city-wide drainage study and stormwater master plan for Kermit. Develop detailed H&H models and floodplain maps. Evaluate FMP alternatives. | 14014001, 14009002, 14009004, 14010001, 14010002 | Winkler | 13070007 | 2.5 | Urban/Local, Playa | Kermit city, Winkler County | Kermit city, Winkler County | No | \$ 75,000 | Yes | Aligns with RFPG and stakeholder goals |
| 141000022 | Develop solutions for flooding near Sierra Blanca | Develop drainage study and stormwater master plan for Sierra Blanca and surrounding ranches with access issues during floods. Develop detailed H&H models and floodplain maps. Evaluate FMP alternatives. | 14014001, 14009002, 14009004, 14010001, 14010002 | Hudspeth | 13040201 | 4.8 | Riverine | Hudspeth County | Hudspeth County | No | \$ 76,000 | Yes | Aligns with RFPG and stakeholder goals |

Table 5C. Flood Management Evaluations Recommended by the RFPG

| FME ID | FME Name | Description | Associated Goals | Counties | HUC8s | FME Area (sqmi) | Flood Risk Type | Sponsor | Entities with Oversight | Emergency Need | Estimated Study Cost | RFPG Recommendation (Y/N) | Reason for Recommendation |
|----------|--|--|--|---------------|------------------------------|-----------------|-----------------------|--|--|----------------|----------------------|---------------------------|--|
| 14100023 | Develop city-wide drainage study and stormwater master plan for Alpine | Develop city-wide drainage study and stormwater master plan for Alpine. Develop detailed H&H models and floodplain maps. Evaluate FMP alternatives. | 14014001, 14009002, 14009004, 14010001, 14010002 | Brewster | 13070006 | 4.8 | Urban/Local, Riverine | Alpine city, Brewster County | Alpine city, Brewster County | No | \$ 250,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100024 | Develop Supplemental Watershed Plans for flood control dams protecting Sonora | Assess & evaluate rehabilitation improvements for 7 NRCS dams identified by TCEQ as "Hydraulically Inadequate". Define upgrades of dams in Supplemental Watershed Plans for Dry Devils & Lowry Dams 3, 4, 5, 7, 8, 10, & 12. | 14014001, 14009002, 14009004, 14010001, 14010002 | Sutton | 13040301 | 2.2 | Riverine | Sonora city, Sutton County | Sonora city, Sutton County | Yes | \$ 1,456,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100025 | Develop Supplemental Watershed Plans for flood control dams protecting Ozona | Assess & evaluate rehabilitation improvements for NRCS dam identified by TCEQ as "Hydraulically Inadequate". Define upgrades of dam in Supplemental Watershed Plans for Johnsons Draw SCS Site 7 Dam. | 14014001, 14009002, 14009004, 14010001, 14010002 | Crockett | 13040301 | 4.6 | Riverine | Ozona CDP, Crockett County | Ozona CDP, Crockett County | Yes | \$ 1,456,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100026 | Develop city-wide drainage study and stormwater master plan for Monahans/Southwest Sandhill | Develop drainage study and stormwater master plan for City of Monahans and Southwest Sandhill Census Designated Place. Develop detailed H&H models and floodplain maps. Evaluate FMP alternatives. | 14014001, 14009002, 14009004, 14010001, 14010002 | Ward, Winkler | 13070007 | 36.1 | Urban/Local, Playa | Monahans city, Southwest Sandhill CDP, Ward County | Monahans city, Southwest Sandhill CDP, Ward County | No | \$ 104,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100033 | Develop city-wide drainage study and stormwater master plan for City of Socorro | Develop city-wide drainage study and stormwater master plan for Socorro. Develop detailed H&H models and floodplain maps. Evaluate FMP alternatives. | 14014001, 14009001, 14009003, 14010001, 14010002 | El Paso | 13040100 | 21.9 | Urban/Local, Riverine | Socorro city, El Paso County | Socorro city, El Paso County | No | \$ 73,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100034 | Develop FMPs for additional projects in City of El Paso/El Paso Water Stormwater Master Plan | Develop all required datasets and models for 52 projects from the City of El Paso/El Paso Water Stormwater Master Plan to be recommended as FMPs in the Regional Flood Plan. | 14009001, 14009003, 14010001, 14010002 | El Paso | 13030102, 13040100, 13050003 | 298.8 | Urban/Local, Riverine | El Paso Water | El Paso Water | No | \$ 1,288,000 | Yes | Aligns with RFPG and stakeholder goals |
| 14100035 | Develop FMPs for additional projects from the El Paso County Stormwater Master Plan | Develop all required datasets and models for 21 projects from the El Paso County Stormwater Master Plan to be considered as FMPs in the Regional Flood Plan. | 14009001, 14009003, 14010001, 14010002 | El Paso | 13030102, 13040100, 13050003 | 711.1 | Urban/Local, Riverine | El Paso County | El Paso County | No | \$ 276,000 | Yes | Aligns with RFPG and stakeholder goals |

Appendix 5D

FMPs Recommended by the RFPG

Table 5D. Flood Mitigation Projects Recommended by RFPG

| FMP ID | FMP Name | Description | Associated Goals (ID) | Counties | HUC12s | Project Type | Project Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa, Other) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Project Cost (\$) | Potential Funding Sources and Amount | Cost/Structure removed | Percent Nature-based Solution (by cost) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | How No Negative Impact was Determined | Social Vulnerability Index (SVI) | Water Supply Benefit (Y/N) | Benefit-Cost Ratio | RFPG Recommendation (Y/N) | Reason for Recommendation |
|-----------|--|---|------------------------------|-----------------|--------------|----------------|---------------------|--|-------------------------|-------------------------------|----------------------|-----------------------------|--------------------------------------|------------------------|---|-----------------------|----------------------------------|---|----------------------------------|----------------------------|--------------------|---------------------------|--|
| 14300003 | Small pond at San Elizario | Construct a new 0.34 ac-ft pond to relieve roadway flooding. Described as Alternative 3 from City of San Elizario "Drainage Feasibility Study" (2018). | 14009001, 14009003 | El Paso | 130401000307 | Detention Pond | 0.001 | Urban/Local | San Elizario city | San Elizario city | No | \$224,000 | General Revenue | N/A | 0 | No | No | Engineering Judgment (Append. 5B, Section 5B-5) | 0 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300005 | SH20 Drainage Improvements from Doniphan Drive to Texas Avenue | Improvements to inlet and culvert capacities at 8 crossings, with cost estimates and prioritizations available. | 14010001, 14010002 | El Paso | 130401000107 | Storm Drain | 0.1 | Urban/Local | TXDOT, El Paso Water | TXDOT, El Paso Water | No | \$3,745,000 | Revenue bonds, Cash Revenues, Credit | N/A | 0 | No | No | Engineering Judgment (Append. 5B, Section 5B-6) | 0.29 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300007 | Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17 | Add flood gates to roadways at 4 LWCs on Alamito Creek, and a monitoring gage/early detection on North Alamito Creek at Hwy 17 Bridge upstream of Marfa. This provides early warning for Emergency Management to deploy before imminent road flooding. | 14005001, 14006001 | Presidio County | 130402020105 | Preparedness | 0.02 | Riverine | Marfa city | Marfa city | Yes | \$358,000 | General Funds | N/A | 0 | No | No | Engineering Judgment (Append. 5B, Section 5B-7) | 0.00 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300009 | Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County | Coordinate with Hudspeth County Commissioners, Road & Bridge Departments, Safety & Inspection Departments, & County Attorney to draft a floodplain ordinance (or modify existing subdivision ordinance) to regulate development standards in Hudspeth County. | 14001001, 14002001 | Hudspeth County | | Other | 4552.1 | Riverine, Playa, Urban/Local | Hudspeth County | Hudspeth County | No | \$50,000 | General Revenue | N/A | 0 | No | No | Engineering Judgment (Append. 5B, Section 5B-7) | 0.56 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300011 | SSA4 | Detention Basin SSA4 | 14009003, 14009001, 14011001 | El Paso | 130401000204 | Detention Pond | 0.1 | Riverine | El Paso County | El Paso County | No | \$14,744,000 | General Funds, Bonds, Tax Notes | \$148,929 | 0 | No | No | Model IDs: 140000000016 and 140000000015 | 0.902 | No | 0.1 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300021 | SOC4 | Sediment/Detention Basin at "Mankato Arroyo" | 14009003, 14009001, 14011001 | El Paso | 130401000307 | Detention Pond | 0.04 | Riverine | El Paso County, EPCWID1 | El Paso County, EPCWID1 | No | \$2,383,000 | Taxes, water use fees | \$238,300 | 0 | No | No | Model IDs: 140000000021 and 140000000018 | 0.943 | No | 0.1 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300024 | MON3 | Sediment/Retention Basin | 14009003, 14009001, 14011001 | El Paso | 130401000203 | Detention Pond | 1.3 | Playa | El Paso County | El Paso County | No | \$27,033,000 | General Funds, Bonds, Tax Notes | \$82,670 | 0 | No | No | Model IDs: 140000000019 and 140000000020 | 0.739 | No | 0.2 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300025 | HAC3 | Sediment/Retention Basin | 14009003, 14009001, 14011001 | El Paso | 130401000307 | Detention Pond | 0.1 | Riverine | El Paso County | El Paso County | No | \$4,619,000 | General Funds, Bonds, Tax Notes | \$461,900 | 0 | No | No | Model IDs: 140000000021 and 140000000022 | 0.985 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 14300097 | NW16 | Expand channel from Village Ct to Doniphan Dr | 14009003, 14009001 | El Paso | 130301020906 | Channel | 0.0 | Urban/Local | El Paso Water | El Paso Water | No | \$1,570,000 | Revenue bonds, Cash Revenues, Credit | \$523,333 | 0 | No | No | Model IDs: 140000000002 and 140000000001 | 0.889 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 143000100 | NE3B | Alcan Pond: new catch basin to capture FP15 upstream | 14009003, 14009001, 14011001 | El Paso | 130401000103 | Detention Pond | 0.1 | Urban/Local | El Paso Water | El Paso Water | No | \$21,234,000 | Revenue bonds, Cash Revenues, Credit | \$393,222 | 0 | No | No | Model IDs: 140000000031 and 140000000030 | 0.779 | No | 0.1 | Yes | In alignment with RFPG and Stakeholder Goals |
| 143000105 | EA10A | Build sediment/detention basin upstream of Paseo del Este Drive | 14009003, 14009001, 1401101 | El Paso | 130401000204 | Detention Pond | 0.02 | Riverine | El Paso Water | El Paso Water, El Paso County | No | \$9,647,000 | Revenue bonds, Cash Revenues, Credit | \$9,647,000 | 0 | No | No | Model IDs: 140000000029 and 140000000028 | 0.644 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 143000111 | NW3 | Construction of new larger capacity Doniphan Pump Station to replace PS1, with new force main directly to the Rio Grande. Install new catch basin with mechanical bar screen upstream of PS2. | 14009003, 14009001 | El Paso | 130401000107 | Storm Drain | 0.3 | Urban/Local | El Paso Water | El Paso Water | No | \$16,132,000 | Revenue bonds, Cash Revenues, Credit | \$2,688,667 | 0 | No | No | Engineering Judgment (Append. 5B, Section 5B-3) | 0.786 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 143000113 | NW26 | Acquire land, construct a permanent wetland, install a storm drain system to Doniphan Drive, construct pipeline to Doniphan Pump Station and build new pump station to control flood levels. | 14009003, 14009001 | El Paso | 130401000107 | Detention Pond | 0.2 | Urban/Local | El Paso Water | El Paso Water | No | \$35,568,000 | Revenue bonds, Cash Revenues, Credit | N/A | 1 | No | No | Engineering Judgment (Append. 5B, Section 5B-3) | 0 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |
| 143000116 | EA9A | Build sediment/detention basin upstream of Paseo del Este Drive | 14009003, 14009001, 14011001 | El Paso | 130401000204 | Detention Pond | 0.04 | Riverine | El Paso Water | El Paso Water | No | \$11,897,000 | Revenue bonds, Cash Revenues, Credit | \$915,154 | 0 | No | No | Model IDs: 140000000029 and 140000000028 | 0.644 | No | 0 | Yes | In alignment with RFPG and Stakeholder Goals |

Appendix 5E

FMSs Recommended by the RFPG

Table 5E. Flood Management Strategies Recommended by RFPG

| FMS ID | FMS Name | Description | Associated Goals (ID) | Counties | HUC8s | Strategy Type | Strategy Project Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Project Cost (\$) | Potential Funding Sources and Amount | Cost/Structure removed | Consideration of nature-based solution (Y/N) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | Water Supply Benefit (Y/N) | RFPG Recommendation (Y/N) | Reason for Recommendation |
|-----------|---|--|--|--------------------|--|-------------------------------|------------------------------|---|---|--|----------------------|-----------------------------|--------------------------------------|------------------------|--|-----------------------|----------------------------------|----------------------------|---------------------------|--|
| 142000001 | FEMA Levee Accreditation for All Rio Grande Levees at El Paso | Coordination needed between USIBWC, FEMA, El Paso Water, El Paso County, Doña Ana County, and Hudspeth County to certify and accredit all remaining levee segments through El Paso County. Interior drainage studies are needed in Hudspeth and Doña Ana. | 14004001 | El Paso | 13030102, 13040100 | Regulatory and Guidance | 91.19 | Riverine | USIBWC, El Paso Water, El Paso County, Doña Ana County, Hudspeth County | USIBWC, El Paso Water, El Paso County, Doña Ana County, Hudspeth County | No | \$ 482,000 | Federal, State, Local | \$ 44 | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000002 | Irrigation and Recharge Application of Captured Rainwater Runoff at Alpine | Construct rainwater basins at 3 locations around Kokernot Park to drain neighboring streets, impound runoff volume, promote infiltration and aquifer recharge, reduce landscaping water costs, and remediate pollutants. | 14012001, 14013001 | Brewster | 13070006 | Infrastructure Projects | 0.06 | Urban/Local | City of Alpine, Brewster County | City of Alpine, Brewster County | No | \$ 1,282,000 | State, Local | N/A | Yes | No | No | Yes | Yes | Aligns with RFPG and stakeholder goals |
| 142000003 | Implement Colonia-wide Drainage System and Maintenance and Outreach Program for Roadside Swales and Driveway Culverts at Fort Hancock | Construct drainage improvements as detailed in FME ID: 141000014; maintain existing roadside ditches/swales to ensure positive drainage; and develop an outreach program to encourage residents to maintain and repair driveway culverts. | 14007001, 14007002, 14014001, 14009002, 14009004, 14010001, 14010002 | Hudspeth | 13040100 | Education and Outreach, Other | 1.12 | Urban/Local | City of Fort Hancock, Hudspeth County | City of Fort Hancock, Hudspeth County | No | \$ 404,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000004 | Coordination with Ft. Bliss for FMP Permitting and Maintenance Access | El Paso Water designed NE7 on Ft. Bliss near unexploded ordinances (UXOs), and has an easement to maintain Fusselman and Northgate Dams, but can't access them due to UXOs. El Paso County designed MON1 on Ft. Bliss near a training ground and potential UXOs. | 14007003, 14011001, 14009001, 14009003, 14010001, 14010002 | El Paso | 13040100 | Infrastructure Projects | 0.67 | Urban/Local | El Paso Water, El Paso County, U.S. Army | El Paso Water, El Paso County, U.S. Army | No | \$ 49,000 | Federal, State, Local | \$ 415 | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000005 | Maintenance Program to control Salt Cedar vegetation along Rio Grande upstream of Presidio | Study to develop alternatives to clear vegetation along the Rio Grande between Candelaria and City of Presidio to allow for proper drainage for communities located along FM 170. Coordination needed between RGCOG, Presidio County, TXDOT, USACE and USIBWC. | 14007003, 14012001 | Presidio | 13040201 | Education and Outreach, Other | 28.86 | Urban/Local | RGCOG, Presidio County, TXDOT, USIBWC, USACE | Presidio County, TXDOT, USIBWC, USACE | No | \$ 97,000 | Federal, State, Local | N/A | Yes | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000006 | Study Binational Streamflow Recommendations for Big Bend Reach of Rio Grande/Rio Bravo | Conduct study with recommendations for binationally beneficial stream flows for Big Bend reach of the Rio Grande/Rio Bravo. Study will identify stream flows to support the river's ecological environment in state and federal parks in the U.S. and Mexico. | 14007003, 14012001 | Presidio, Brewster | 13040203, 13040204, 13040205, 13040202, 13040201 | Other | 212.79 | Riverine | Presidio County, USIBWC, RG/B Basin Flows Collaboration, Rio Grande Joint Venture | City of Presidio, Presidio County, Brewster County, Big Bend National Park, Rio Grande Wild and Scenic River, Big Bend Ranch State Park, Black Gap Wildlife Management Area, Santa Elena Canyon Wildlife and Plant Protection Area, Maderas del Carmen Wildlife and Plant Protection Area, Ocampo Wildlife and Plant Protection Area, and the Rio Bravo Monument | No | \$ 63,000 | Federal, State | N/A | Yes | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000007 | Study to plan the management of saltcedar growth and debris in channels in/adjacent to City of Pecos | Study to identify and characterize alternatives to manage vegetation in natural drainages in and adjacent to the City of Pecos to increase conveyance and reduce flooding within the City of Pecos. | 14012001 | Reeves | 13060007, 13060011, 13040212, 13070002, 13070003, 13070006 | Other | 124.33 | Riverine | City of Pecos, Reeves County | City of Pecos, Reeves County | No | \$ 73,000 | Federal, State, Local | N/A | Yes | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000008 | Develop Certification Package for Cibolo Creek Channel and Levee | Perform planning and design required by FEMA for levee accreditation, then complete certification package for Cibolo Creek levee in vicinity of City of Presidio. Package includes O&M Plan. | 14015001, 14007000, 14004002 | Presidio | 13040201 | Regulatory and Guidance | 2.75 | Riverine | USACE, Presidio County, City of Presidio | USACE, Presidio County | No | \$ 79,000 | Federal, State, Local | \$ 116 | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000009 | Regulatory Review of Off-Road Traffic on State Lands | Coordination should take place between EPCWID1, El Paso County, and State land owners to discuss enforcement of restrictions associated with off-road motor vehicles on undeveloped land. | 14002001, 14007003 | El Paso | 13040100, 13050003 | Regulatory and Guidance | 620.49 | Other | EPCWID1, El Paso County, Texas GLO | EPCWID1, El Paso County, Texas GLO | No | \$ 99,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |

Table 5E. Flood Management Strategies Recommended by RFPG

| FMS ID | FMS Name | Description | Associated Goals (ID) | Counties | HUC8s | Strategy Type | Strategy Project Area (sqmi) | Flood Risk Type (Riverine, Coastal, Urban, Playa) | Sponsor | Entities with Oversight | Emergency Need (Y/N) | Estimated Project Cost (\$) | Potential Funding Sources and Amount | Cost/Structure removed | Consideration of nature-based solution (Y/N) | Negative Impact (Y/N) | Negative Impact Mitigation (Y/N) | Water Supply Benefit (Y/N) | RFPG Recommendation (Y/N) | Reason for Recommendation |
|-----------|--|---|--|--|--|--------------------------------|------------------------------|---|--|---|----------------------|-----------------------------|--------------------------------------|------------------------|--|-----------------------|----------------------------------|----------------------------|---------------------------|--|
| 142000010 | Regulatory Review of Impervious Cover on New Development in El Paso County | Coordination should take place between EPCWID1, El Paso County, and Texas GLO land owners to discuss revisions to development regulations associated with detention and impervious cover. | 14001001, 14007003 | El Paso | 13040100, 13050003 | Regulatory and Guidance | 619.88 | Urban/Local | EPCWID1, El Paso County, Texas GLO | EPCWID1, El Paso County, Texas GLO | No | \$ 64,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000013 | Staff augmentation support or funding for at risk communities to join and/or enforce the NFIP | Prioritize and provide staff augmentation support or funding for at risk communities not currently participating in the NFIP or communities with limited resources to enforce the NFIP. Aid communities in implementing recommended minimum standards. | 14001001, 14001002 | Presidio, Hudspeth, Reeves, Andrews, Edwards, Pecos, Winkler | | Regulatory and Guidance | 16144.52 | Urban/Local, Riverine | RGCOG | Presidio County, Hudspeth County, Reeves County, Andrews County, Edwards County, Pecos County, Winkler County, City of Alpine, City of Sonora, City of Barstow, City of Kermit, City of Rankin, City of Thorntonville, Town of Valentine, City of Wickett, City of Wink | No | \$ 44,000 | Federal, State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000014 | Develop new flood gages throughout the region | Prioritize, fund, and develop new flood gages (rainfall and/or stream gages) throughout the region to support flood warning system improvements and improve ability to validate or calibrate existing and new flood models | 14005001, 14006001, 1400602 | All of Region 14 | | Flood Measurement and Warning | 43031.15 | Riverine | RGCOG | | Yes | \$ 240,000 | Federal, State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000015 | Develop and design standard options for addressing identified development-related flooding in El Paso | Evaluate COEP and El Paso County drainage design standards for inlets, curb cuts, requirements for on-site storage in new developments, addressing as-built elevations, protecting remaining on-site storage and recovering original storage for existing developments. | 14002001, 14003001 | El Paso | 13030102, 13040100, 13050003 | Regulatory and Guidance | 1011.05 | Urban/Local | El Paso Water, El Paso County | El Paso Water, El Paso County | No | \$ 35,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000016 | Develop regional solutions to address erosion issues in natural channels affecting stormwater conveyance | Develop consensus region-specific erosion-resistant designs to prevent removal of material from drainage conveyances, with functional comparisons to aid selection of best practices. | 14007003, 14002001, 14003001, 14007001, 14007002 | All of Region 14 | 13030102, 13040100, 13050003 | Other | 1011.05 | Urban/Local, Riverine | RGCOG | | No | \$ 57,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000017 | Develop solutions to address city/county stormwater conveyance into the Rio Grande (El Paso County) | Refine agency action coordination in conveyance of interior flooding to the Rio Grande. Develop FMP designs and costs for improvements of conveyance from river terrace storm water infrastructure, considering high ground water. | 14006001, 14004001, 14004002, 14007003 | El Paso | 13030102, 13040100, 13040201, 13040202, 13040203, 13040204, 13040205, 13040206, 13040207, 13040208, 13040209, 13040210, 13040211, 13040212, 13070006, 13070008, 13070010, 13070012, 13050003, 13050004, 13070007 | Infrastructure Projects, Other | 17923.72 | Urban/Local, Riverine | El Paso Water, El Paso County | El Paso Water, El Paso County | No | \$ 99,000 | Federal, State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000019 | Initiate program to develop integrated solutions to improve irrigation system/stormwater conveyance system interaction in El Paso area | Initiate program to develop integrated solutions to improve irrigation system/stormwater conveyance system interaction in El Paso area | 14014001, 14007000 | El Paso | 13030102, 13040100, 13050003 | Other | 1011.05 | Urban/Local, Riverine | El Paso Water, El Paso County, EPCWID1 | El Paso Water, El Paso County, EPCWID1 | No | \$ 21,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000020 | Develop and Improve Early Warning System for El Paso City/ County interior drainage | Conduct study to evaluate and proposed improvements to Early Warning Systems (EWSs) for interior drainage in El Paso City and El Paso County. Includes assessment of existing flood EWS. | 14006001, 1400602 | El Paso | 13030102, 13040100, 13050003 | Flood Measurement and Warning | 1010.83 | Urban/Local, Riverine | El Paso Water, COEP, El Paso County, EPCWID1 | El Paso Water, COEP, El Paso County, EPCWID1 | Yes | \$ 140,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000021 | Develop and Improve Early Warning System for City of Pecos | Conduct study to evaluate and propose improvements to Early Warning Systems (EWSs) for City of Pecos and adjacent Lindsay Census Designated Place. Includes assessment of existing flood EWS. | 14006001, 1400602 | Reeves | 13070003, 13070001 | Flood Measurement and Warning | 23.03 | Urban/Local, Riverine | City of Pecos, Reeves County | City of Pecos, Reeves County | Yes | \$ 50,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000022 | Develop and Improve Early Warning System for City of Alpine | Conduct study to evaluate and propose improvements to Early Warning Systems (EWSs) for City of Alpine. Includes assessment of existing flood EWS. | 14006001, 1400602 | Brewster | 13070006 | Flood Measurement and Warning | 4.79 | Urban/Local, Riverine | City of Alpine, Brewster County | City of Alpine, Brewster County | Yes | \$ 50,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000023 | Develop and Improve Early Warning System for City of Presidio, Presidio County | Identify and design access routes and bridges/culverts to provide emergency access during extreme flood events in the City of Presidio. | 14006001, 1400602 | Presidio | 13040201 | Flood Measurement and Warning | 2.57 | Urban/Local, Riverine | City of Presidio, Presidio County | City of Presidio, Presidio County | Yes | \$ 50,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 141000024 | Develop and Improve Early Warning System for City of Fort Stockton | Conduct study to evaluate and propose improvements to Early Warning Systems (EWSs) for City of Fort Stockton. Includes assessment of existing flood EWS. | 14006001, 1400602 | Pecos | 13070007 | Flood Measurement and Warning | 5.53 | Urban/Local, Riverine | City of Fort Stockton, Pecos County | City of Fort Stockton, Pecos County | Yes | \$ 50,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |
| 142000025 | Develop and Improve Early Warning System for City of Marfa, Presidio County | Identify and design access routes and bridges/culverts to provide emergency access during extreme flood events in Marfa. Southeast Marfa and dirt portion of FM2810 were identified as problem areas by Presidio County Office of Emergency Management. | 14006001, 1400602 | Presidio | 13040202 | Flood Measur | 1.62 | Urban/Local, Riverine | City of Marfa, Presidio County | City of Marfa, Presidio County | Yes | \$ 50,000 | State, Local | N/A | No | No | No | No | Yes | Aligns with RFPG and stakeholder goals |

Appendix 5F

Data Entry Scoring Summary Table for FMPs



| Project Name | FMP ID | General Project Data | | | | | | | | | | | | |
|--|-----------|---|--------------|----------------|-----------------------|--|-----------------|--------------|--------------------|--|------------------------------|--|--|----------------|
| | | Project Description | Flood Region | Project Type | FIUP Project Category | Project Watershed | Rural Applicant | Project Cost | Benefit Cost Ratio | Cost per Structure Removed | Pre-Project Level-of-Service | Post-Project Level-of-Service | # of Structures in 1% Annual Chance FP (Pre-Project) | Project Status |
| Small pond at San Elizario | 143000003 | Construct a new 0.34 ac-ft pond to relieve roadway flooding. Described as Alternative 3 from City of San Elizario "Drainage Feasibility Study" (2018). | 14 | Detention Pond | Category 2 | Daugherty Lateral-Rio Grande,Small pond at San Elizario,Unnamed_FME_Watershed,City of Socorro-Rio Grande | N | \$224,000 | 0 | N/A | Unknown | 10% annual chance | 0 | Planning |
| SH20 Drainage Improvements from Doniphan Drive to Texas Avenue | 143000005 | Improvements to inlet and culvert capacities at 8 crossings, with cost estimates and prioritizations available. | 14 | Storm Drain | Category 4 | <Null> | N | \$3,745,000 | 0 | N/A | <20% annual chance | 10% annual chance | 4 | Planning |
| Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17 | 143000007 | Add flood gates to roadways at 4 LWCs on Alamito Creek, and a monitoring gage/early detection on North Alamito Creek at Hwy 17 Bridge upstream of Marfa. This provides early warning for Emergency Management to deploy before imminent road flooding. | 14 | Preparedness | Category 4 | Alamito_Creek_US_of_Marfa,Unnamed_FME_Watershed,Alamito Creek-San Esteban Lake | Y | \$358,000 | 0 | Not applicable, non-structural FMP (early warning) | <20% annual chance | Not applicable, non-structural FMP (early warning) | 0 | Planning |
| Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County | 143000009 | Coordinate with Hudspeth County Commissioners, Road & Bridge Departments, Safety & Inspection Departments, & County Attorney to draft a floodplain ordinance (or modify existing subdivision ordinance) to regulate development standards in Hudspeth County. | 14 | Other | Category 1 | <Null> | N | \$50,000 | 0 | Not applicable, non-structural FMP (regulatory) | Unknown | Not applicable, non-structural FMP (regulatory) | 823 | Planning |
| SSA4 | 143000011 | Detention Basin SSA4 | 14 | Detention Pond | Category 2 | SSA4-B,SSA4-C,SSa4-DS-1,Unnamed_FME_Watershed,City of Socorro-Rio Grande | N | \$14,744,000 | 0.1 | \$148,929 | <1% annual chance | 1% annual chance | 185 | Planning |
| SOC4 | 143000021 | Sediment/Detention Basin at "Mankato Arroyo" | 14 | Detention Pond | Category 2 | A_Hacienda Real-1,A_Stream 5.5-1,A_Mesa Spur 5.5-1,Daugherty Lateral-Rio Grande,SOC_4,Unnamed_FME_Watershed,City of Socorro-Rio Grande | N | \$2,383,000 | 0.1 | \$238,300 | <1% annual chance | 1% annual chance | 10 | Planning |



| Project Name | FMP ID | Score 1: Severity - Pre-Project Average Depth of Flooding (100-year) | | | | Score 2: Severity - Community Need (% Population) | | | | | | Score 3: Flood Risk Reduction | | | |
|--|-----------|--|--|--|---------|---|-----------------------------|------------------------|--|---|---------|--|--|--|---------|
| | | Average Flood Depth (100yr) | Notes | Severity Ranking: Pre-Project Average Depth of Flooding (100-year) | Score 1 | Communities Served by Project | Community Population Served | Flood Plain Population | Notes 2 | Severity Ranking: Community Need (% Population) | Score 2 | # of Structures Removed from 1% Annual Chance FP | Notes 3 | Flood Risk Reduction | Score 3 |
| Small pond at San Elizario | 143000003 | 0.3 | Preliminary FEMA 2D model does not show 1% AC flood depths, but community reports localized flooding | Baseline average flood depth < 0.5ft | 2 | San Elizario city | 10,116 | 0 | 0.00% | <25% of project community affected | 1 | 0.00 | 100% | Reduced risk to 0 structures in floodplain | 0 |
| SH20 Drainage Improvements from Doniphan Drive to Texas Avenue | 143000005 | 0.9 | Preliminary FEMA 2D model does not show 1% AC flood depths at all crossing locations. Average depth is based on locations with flood depths shown in 2D model results. | Baseline average flood depth > 0.5ft | 4 | El Paso city | 678,815 | 30 | 0.004% | <25% of project community affected | 1 | 0.00 | 0% | Reduced risk to 0 structures in floodplain | 0 |
| Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17 | 143000007 | 9.2 | Based on Fathom 1% annual chance depth grid | Baseline average flood depth > 9.2 ft | 10 | Marfa city | 1,788 | 0 | Not applicable, non-structural FMP (early warning) | | 0 | 0.00 | Not applicable, non-structural FMP (early warning) | | 0 |
| Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County | 143000009 | 0.47 | Not applicable, non-structural FMP (regulatory) | Not applicable, non-structural FMP (regulatory) | 0 | Hudspeth County | 3,913 | 1629 | Not applicable, non-structural FMP (regulatory) | | 0 | 0.00 | Not applicable, non-structural FMP (early warning) | | 0 |
| SSA4 | 143000011 | 0.727 | | Baseline average flood depth > 0.5ft | 4 | Sorroco City, Sparks CDP | 39,066 | 564 | 1.44% | <25% of project community affected | 1 | 99.00 | 54% | Reduced risk to <75% of structures in floodplain | 7 |
| SOC4 | 143000021 | 0.598 | | Baseline average flood depth > 0.5ft | 4 | Sorroco City | 34,306 | 26 | 0.08% | <25% of project community affected | 1 | 10.00 | 100% | Reduced risk to >75% of structures in floodplain | 10 |



| Project Name | FMP ID | Score 4: Flood Damage Reduction | | | | | | Score 5: Critical Facilities Damage Reduction | | | |
|--|-----------|--|-----------------------|------------------------|---|------------------------------|---------|---|---|---|---------|
| | | # of Structures with Reduced 1% Annual Chance Flood Risk | Pre-Project Damage \$ | Post-Project Damage \$ | Notes 4 | Flood Damage Reduction | Score 4 | # of Critical Facilities Removed from 1% Annual Chance FP | Notes 5 | Reduction in Critical Facilities Flood Risk | Score 5 |
| Small pond at San Elizario | 143000003 | 0 | \$0 | \$0 | Project does not have 1% annual chance Level of service | | 0 | 0 | No Critical Facilities in Floodplain | | 0 |
| SH20 Drainage Improvements from Doniphan Drive to Texas Avenue | 143000005 | 0 | \$355,136 | \$355,136 | Project does not have 1% annual chance Level of service | | 0 | 0 | No Critical Facilities in Floodplain | | 0 |
| Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17 | 143000007 | 0 | \$0 | \$0 | Not applicable, non-structural FMP (early warning) | | 0 | 0 | Not applicable, non-structural FMP (regulatory) | | 0 |
| Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County | 143000009 | N/A | \$0 | \$0 | Not applicable, non-structural FMP (regulatory) | | 0 | 0 | Not applicable, non-structural FMP (regulatory) | | 0 |
| SSA4 | 143000011 | 185 | \$8,172,542 | \$2,996,393 | 63.34% | Flood Damage Reduction > 50% | 6 | 0 | No Critical Facilities in Floodplain | | 0 |
| SOC4 | 143000021 | 10 | \$432,110 | \$0 | 100.00% | Flood Damage Reduction > 95% | 10 | 0 | No Critical Facilities in Floodplain | | 0 |



| Project Name | FMP ID | Score 6: Life and Safety | | | | Score 7: Water Supply | | | | | | Score 8: Social Vulnerability | | | |
|--|-----------|--------------------------|---|---|---------|-----------------------------------|----------|--------|---------|----------------------------|---------|-------------------------------|---------|---|---------|
| | | Adjusted Injury Risk (%) | Notes 6 | Life and Safety Ranking (Injury/Loss of Life) | Score 6 | Water Supply Benefit in Acre-Feet | SourceID | WMS_ID | Notes 7 | Water Supply Yield Ranking | Score 7 | SVI Score | Notes 8 | Social Vulnerability Ranking | Score 8 |
| Small pond at San Elizario | 143000003 | 0.4 | | Life/injury risk percentage <20% | 2 | 0 | | | | No impact on water supply | 0 | 0.96 | | SVI between 0.75-1.00 (high vulnerability) | 10 |
| SH20 Drainage Improvements from Doniphan Drive to Texas Avenue | 143000005 | 11.1 | | Life/injury risk percentage <20% | 2 | 0 | | | | No impact on water supply | 0 | 0.29 | | SVI between 0.25-0.5 (low to moderate vulnerability) | 4 |
| Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17 | 143000007 | 90.5 | | Life/injury risk percentage >50% | 10 | 0 | | | | No impact on water supply | 0 | 0.91 | | SVI between 0.01-0.25 (low vulnerability) | 1 |
| Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County | 143000009 | 0 | Not applicable, non-structural FMP (regulatory) | | | N/A | | | | No impact on water supply | 0 | 0.56 | | SVI between 0.5-0.75 (moderate to high vulnerability) | 7 |
| SSA4 | 143000011 | 4.0 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.90 | | SVI between 0.75-1.00 (high vulnerability) | 10 |
| SOC4 | 143000021 | 2.7 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.94 | | SVI between 0.75-1.00 (high vulnerability) | 10 |



| Project Name | FMP ID | Score 9: Nature-Based Solution | | | Score 10: Multiple Benefites | | | | Score 11: O&M | | | | |
|---|-----------|---------------------------------|---|--------------------------------|------------------------------|-------------------------------|--|--|---------------|-------------------|--|--|----------|
| | | % Nature Based Solution by Cost | Notes 9 | Nature-Based Solutions Ranking | Score 9 | Multiple Benefits Description | Notes 10 | Multiple Benefit Ranking | Score 10 | O&M Cost (Annual) | Notes 11 | Operations and Maintenance Ranking | Score 11 |
| Small pond at San Elizario | 143000003 | 0% | | | 0 | | Transportation benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$2,000 | sediment/trash/debris removal | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| SH20 Drainage Improvements from Doniphan Drive to Texas Avenue | 143000005 | 0% | | | 0 | | Transportation benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$2,000 | sediment/trash/debris removal | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| Install Flood Gates in Marfa and Monitoring Gage on North Alamo Creek and Highway 17 | 143000007 | 0% | | | 0 | | Transportation benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$21,650 | One time training course is available to train City staff on annual maintenance requirements for \$3,500. To contract out annual maintenance is \$21,650 annually. | Project will require ongoing operation and maintenance outside of the owner's regular maintenance practices; long-term O&M requirements are undefined; and/or high annual O&M cost > 1% of project (high); | 4 |
| Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County | 143000009 | | Not applicable, non-structural FMP (regulatory) | | | | | Not applicable, non-structural FMP (regulatory) | | | Ongoing operation costs of new program to regulate development are currently unknown. | Project will require ongoing operation and maintenance outside of the owner's regular maintenance practices; long-term O&M requirements are undefined; and/or high annual O&M cost > 1% of project (high); | 4 |
| SSA4 | 143000011 | 0% | | | 0 | | Agricultural benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$10,000 | Sediment Clearing | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| SOC4 | 143000021 | 0% | | | 0 | | Transportation and agricultural benefits | Project delivers benefits in 2 wider benefit categories | 4 | \$10,000 | Sediment Clearing | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |



| Project Name | FMP ID | Score 12: Admin, Regulatory Obstacles | | | Score 13: Environmental Benefit | | | Score 14: Environmental Impact | | | Score 15: Mobility | | | |
|--|-----------|--|---|----------|---|--|----------|--|---|----------|-------------------------------|---|---|----------|
| | | Notes 12 | Administrative, Regulatory and Other Obstacle Ranking | Score 12 | Notes 13 | Environmental Benefit Ranking | Score 13 | Notes 14 | Environmental Impact Ranking | Score 14 | Traffic Count for LWC Project | Notes 15 | Mobility Ranking | Score 15 |
| Small pond at San Elizario | 143000003 | Potential stream and cultural resources impacts. National Register district compliance. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Captures sediment and trash, improving water quality. Slows velocities by adding storage volume to the system. | Project will deliver a low level of environmental benefits (benefits in only 1 category) | 3 | Impacts to cultural heritage. Two National Register Districts and five archaeological sites are located within and /or adjacent to the proposed project area. | Project will have adverse environmental impacts in 1 environmental category | 6 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| SH20 Drainage Improvements from Doniphan Drive to Texas Avenue | 143000005 | Potential for impacts to stream channels. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Improvements to inlet and culvert capacities will help facilitate flow of stormwater in the drainage system, reducing erosion caused by stormwater overflowing from the system. | Project will deliver a low level of environmental benefits (benefits in only 1 category) | 3 | Low potential for impacts to protected species. No cultural resources are located within or immediately adjacent to the project areas. | Project has no adverse environmental impacts | 10 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17 | 143000007 | Low potential for impacts to protected species. | Project has few administrative, regulatory and implementation limitations / requirements | 10 | | Project does not provide any environmental benefits | 0 | non-structural FMP (early warning) | Project has no adverse environmental impacts | 10 | | Project would provide early warning to deploy road closures and would prevent drivers from injury/fatalities associated with crossing low water crossings during a flood. | Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas (i.e. >50% of floodplain by area inaccessible). | 4 |
| Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County | 143000009 | Not applicable, non-structural FMP (regulatory) | | | Expected to increase Section 404 permitting/regulatory compliance | Project will deliver a moderate level of environmental benefits (benefits in 2-3 categories) | 6 | Non-structural FMP (regulatory), FMP would reduce impacts on jurisdictional waters of the U.S. by improving regulation. | Project has no adverse environmental impacts | 10 | | Not applicable, non-structural FMP (regulatory) | | |
| SSA4 | 143000011 | Moderate bird nesting, mammal, and reptile potential habitat adjacent to arroyo. Federally listed southwestern willow flycatcher and western yellow-billed cuckoo could occur in riparian habitats | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Mitigate flooding events and keep sediment and/or trash from washing downstream during severe storms. | Project will deliver a moderate level of environmental benefits (benefits in 2-3 categories) | 6 | Potential for impacts to protected species | Project will have adverse environmental impacts in 1 environmental category | 6 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| SOC4 | 143000021 | Federally listed southwestern willow flycatcher and western yellow-billed cuckoo could occur in riparian habitats. National Register district compliance. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Captures sediment coming down the arroyos reducing sedimentation, slowing velocities (erosion), and promotes infiltration. Agricultural Properties removed from flooding. | Project will deliver a moderate level of environmental benefits (benefits in 2-3 categories) | 6 | Federally listed southwestern willow flycatcher and western yellow-billed cuckoo could occur in riparian habitats. Located within the EPCWID1 National Register District, requiring cultural resources survey. | Project will have adverse environmental impacts in 2-3 environmental categories | 3 | | | Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area. | 10 |



| Project Name | FMP ID | General Project Data | | | | | | | | | | | | |
|--------------|-----------|---|--------------|----------------|-----------------------|--|-----------------|--------------|--------------------|----------------------------|------------------------------|-------------------------------|--|--------------------|
| | | Project Description | Flood Region | Project Type | FIUP Project Category | Project Watershed | Rural Applicant | Project Cost | Benefit Cost Ratio | Cost per Structure Removed | Pre-Project Level-of-Service | Post-Project Level-of-Service | # of Structures in 1% Annual Chance FP (Pre-Project) | Project Status |
| MON3 | 143000024 | Sediment/Retention Basin | 14 | Detention Pond | Category 2 | SUB_C11,SUB_G01,SUB_G02,MON3,Unnamed_FME_Watershed,City of Socorro-Rio Grande | N | \$27,033,000 | 0.2 | \$82,670 | <1% annual chance | 1% annual chance | 756 | Planning |
| HAC3 | 143000025 | Sediment/Retention Basin | 14 | Detention Pond | Category 2 | A_Stream 8-1,A_Stream 8-2,A_Hacienda Real-4,Daugherty Lateral-Rio Grande,HAC3,Unnamed_FME_Watershed,City of Socorro-Rio Grande | N | \$4,619,000 | 0 | \$461,900 | <1% annual chance | 1% annual chance | 10 | Planning |
| NW16 | 143000097 | Expand channel from Village Ct to Doniphan Dr | 14 | Channel | Category 2 | WSD_2,DD_1,DD_3,D_1A_2,D_O1_2,NW16,Unnamed_FME_Watershed,City of El Paso-Rio Grande | N | \$1,570,000 | 0 | \$523,333 | <1% annual chance | 1% annual chance | 3 | Planning |
| NE3B | 143000100 | Alcan Pond: new catch basin to capture FP15 upstream | 14 | Detention Pond | Category 2 | A_Tobin Drain U/S Irvin High,Unnamed_FME_Watershed,Bowman Lateral-Rio Grande | N | \$21,234,000 | 0.1 | \$393,222 | <1% annual chance | 1% annual chance | 136 | Planning |
| EA10A | 143000105 | Build sediment/detention basin upstream of Paseo del Este Drive | 14 | Detention Pond | Category 2 | Unnamed Watershed,WS-124C,A_Ten_130,Unnamed_FME_Watershed,City of Socorro-Rio Grande | N | \$9,647,000 | 0 | \$9,647,000 | <1% annual chance | 0.2% annual chance | 17 | Preliminary Design |
| NW3 | 143000111 | Construction of new larger capacity Doniphan Pump Station to replace PS1, with new force main directly to the Rio Grande. Install new catch basin with mechanical bar screen upstream of PS2. | 14 | Detention Pond | Category 2 | OO_1,DD_1,Ind_1,Doniphan_PS1,Doniphan_PS2,Montoya_Wetland,Unnamed_FME_Watershed,City of El Paso-Rio Grande | N | \$16,132,000 | 0 | \$2,688,667 | <1% annual chance | 1% annual chance | 6 | Planning |
| NW26 | 143000113 | Acquire land, construct a permanent wetland, install a storm drain system to Doniphan Drive, construct pipeline to Doniphan Pump Station and build new pump station to control flood levels. | 14 | Detention Pond | Category 2 | OO_1,DD_1,Doniphan_PS2,Montoya_Wetland,Unnamed_FME_Watershed,City of El Paso-Rio Grande | N | \$35,568,000 | 0 | N/A | <1% annual chance | 1% annual chance | 6 | Planning |
| EA9A | 143000116 | Build sediment/detention basin upstream of Paseo del Este Drive | 14 | Detention Pond | Category 2 | Unnamed Watershed,WS-124A,A_Ten_121,Unnamed_FME_Watershed,City of Socorro-Rio Grande | N | \$11,897,000 | 0 | \$915,154 | <1% annual chance | 0.2% annual chance | 17 | Preliminary Design |



| Project Name | FMP ID | Score 1: Severity - Pre-Project Average Depth of Flooding (100-year) | | | | Score 2: Severity - Community Need (% Population) | | | | | | Score 3: Flood Risk Reduction | | | |
|--------------|-----------|--|-------|--|---------|--|-----------------------------|------------------------|---------|---|---------|--|---------|--|---------|
| | | Average Flood Depth (100yr) | Notes | Severity Ranking: Pre-Project Average Depth of Flooding (100-year) | Score 1 | Communities Served by Project | Community Population Served | Flood Plain Population | Notes 2 | Severity Ranking: Community Need (% Population) | Score 2 | # of Structures Removed from 1% Annual Chance FP | Notes 3 | Flood Risk Reduction | Score 3 |
| MON3 | 143000024 | 1.373 | | Baseline average flood depth > 1ft | 6 | Homestead Meadows North CDP, Homestead Meadows South CDP | 12,352 | 1977 | 16.01% | <25% of project community affected | 1 | 327.00 | 43% | Reduced risk to <50% of structures in floodplain | 4 |
| HAC3 | 143000025 | 0.150 | | Baseline average flood depth < 0.5ft | 2 | Morning Glory CDP | 522 | 23 | 4.41% | <25% of project community affected | 1 | 10.00 | 100% | Reduced risk to >75% of structures in floodplain | 10 |
| NW16 | 143000097 | 1.316 | | Baseline average flood depth > 1ft | 6 | El Paso City | 678,815 | 12 | 0.00% | <25% of project community affected | 1 | 3.00 | 100% | Reduced risk to >75% of structures in floodplain | 10 |
| NE3B | 143000100 | 0.704 | | Baseline average flood depth > 0.5ft | 4 | El Paso city | 678,815 | 615 | 0.09% | <25% of project community affected | 1 | 54.00 | 40% | Reduced risk to <50% of structures in floodplain | 4 |
| EA10A | 143000105 | 1.147 | | Baseline average flood depth > 1ft | 6 | El Paso city, Sorroco city | 713,121 | 287 | 0.04% | <25% of project community affected | 1 | 1.00 | 6% | Reduced risk to <10% of structures in floodplain | 1 |
| NW3 | 143000111 | 0.618 | | Baseline average flood depth > 0.5ft | 4 | El Paso city | 678,815 | 37 | 0.01% | <25% of project community affected | 1 | 6.00 | 100% | Reduced risk to >75% of structures in floodplain | 10 |
| NW26 | 143000113 | 0.618 | | Baseline average flood depth > 0.5ft | 4 | El Paso city | 678,815 | 37 | 0.01% | <25% of project community affected | 1 | 0.00 | 100% | Reduced risk to 0 structures in floodplain | 10 |
| EA9A | 143000116 | 1.147 | | Baseline average flood depth > 1ft | 6 | El Paso city, Sorroco city | 713,121 | 287 | 0.04% | <25% of project community affected | 1 | 13.00 | 76% | Reduced risk to >75% of structures in floodplain | 10 |



| Project Name | FMP ID | Score 4: Flood Damage Reduction | | | | | | Score 5: Critical Facilities Damage Reduction | | | |
|--------------|-----------|--|-----------------------|------------------------|---------|------------------------------|---------|---|---|---|---------|
| | | # of Structures with Reduced 1% Annual Chance Flood Risk | Pre-Project Damage \$ | Post-Project Damage \$ | Notes 4 | Flood Damage Reduction | Score 4 | # of Critical Facilities Removed from 1% Annual Chance FP | Notes 5 | Reduction in Critical Facilities Flood Risk | Score 5 |
| MON3 | 143000024 | 655 | \$30,463,281 | \$14,206,208 | 53.37% | Flood Damage Reduction > 50% | 6 | 0 | No Critical Facilities in Floodplain | | 0 |
| HAC3 | 143000025 | 10 | \$104,579 | \$0 | 100.00% | Flood Damage Reduction > 95% | 10 | 0 | No Critical Facilities in Floodplain | | 0 |
| NW16 | 143000097 | 11 | \$225,771 | \$0 | 100.00% | Flood Damage Reduction > 95% | 10 | 0 | No Critical Facilities in Floodplain | | 0 |
| NE3B | 143000100 | 98 | \$7,162,935 | \$3,198,310 | 55.35% | Flood Damage Reduction > 50% | 6 | 0 | No Critical Facilities in Floodplain | | 0 |
| EA10A | 143000105 | 8.00 | \$214,923 | \$121,861 | 43.30% | Flood Damage Reduction > 25% | 4 | 0 | No Critical Facilities in Floodplain | | 0 |
| NW3 | 143000111 | 6 | \$230,709 | \$0 | 100.00% | Flood Damage Reduction > 95% | 10 | 1 | 100% | Critical Facilities reduction >95% | 10 |
| NW26 | 143000113 | 0 | \$312,687 | \$269,098 | 13.94% | Flood Damage Reduction < 25% | 2 | 0 | Does not remove critical facility from floodplain | Critical facilities reduction <25% | 2 |
| EA9A | 143000116 | 17 | \$856,243 | \$86,910 | 89.85% | Flood Damage Reduction > 75% | 8 | 0 | No Critical Facilities in Floodplain | | 0 |



| Project Name | FMP ID | Score 6: Life and Safety | | | | Score 7: Water Supply | | | | | | Score 8: Social Vulnerability | | | |
|--------------|-----------|--------------------------|---------|---|---------|-----------------------------------|----------|--------|---------|----------------------------|---------|-------------------------------|---------|---|---------|
| | | Adjusted Injury Risk (%) | Notes 6 | Life and Safety Ranking (Injury/Loss of Life) | Score 6 | Water Supply Benefit in Acre-Feet | SourceID | WMS_ID | Notes 7 | Water Supply Yield Ranking | Score 7 | SVI Score | Notes 8 | Social Vulnerability Ranking | Score 8 |
| MON3 | 143000024 | 13.5 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.74 | | SVI between 0.5-0.75 (moderate to high vulnerability) | 7 |
| HAC3 | 143000025 | 2.0 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.99 | | SVI between 0.75-1.00 (high vulnerability) | 10 |
| NW16 | 143000097 | 5.9 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.89 | | SVI between 0.75-1.00 (high vulnerability) | 10 |
| NE3B | 143000100 | 9.0 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.78 | | SVI between 0.75-1.00 (high vulnerability) | 10 |
| EA10A | 143000105 | 2.6 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.64 | | SVI between 0.5-0.75 (moderate to high vulnerability) | 7 |
| NW3 | 143000111 | 12.7 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.79 | | SVI between 0.75-1.00 (high vulnerability) | 10 |
| NW26 | 143000113 | 12.7 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.79 | | SVI between 0.75-1.00 (high vulnerability) | 10 |
| EA9A | 143000116 | 2.6 | | Life/injury risk percentage <20% | | 0 | | | | No impact on water supply | 0 | 0.64 | | SVI between 0.5-0.75 (moderate to high vulnerability) | 7 |



| Project Name | FMP ID | Score 9: Nature-Based Solution | | | | Score 10: Multiple Benefites | | | | Score 11: O&M | | | |
|--------------|-----------|---------------------------------|---|---|---------|--------------------------------|--|--|----------|-------------------|-------------------------------|---|----------|
| | | % Nature Based Solution by Cost | Notes 9 | Nature-Based Solutions Ranking | Score 9 | Multiple Benefites Description | Notes 10 | Multiple Benefit Ranking | Score 10 | O&M Cost (Annual) | Notes 11 | Operations and Maintenance Ranking | Score 11 |
| MON3 | 143000024 | 0% | | | 0 | | Transportation benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$10,000 | Sediment Clearing | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| HAC3 | 143000025 | 0% | | | 0 | | Transportation and agricultural benefits | Project delivers benefits in 2 wider benefit categories | 2 | \$10,000 | Sediment Clearing | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| NW16 | 143000097 | 0% | | | 0 | | | Project does not deliver any wider benefits | 0 | \$1,000 | sediment/trash/debris removal | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| NE3B | 143000100 | 0% | | | 0 | | Transportation benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$5,000 | Sediment/trash removal | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| EA10A | 143000105 | 0% | | | 0 | | Agricultural benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$10,000 | Sediment Clearing | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| NW3 | 143000111 | 0% | | | 0 | | Transportation benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$5,000 | Pump Maintenance | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| NW26 | 143000113 | 1% | 1% of the project cost is associated with a nature-based solution (constructed wetland) | < 25% of the project cost is nature-based | 1 | | Transportation benefit | Project delivers benefits in only 1 wider benefit category | 1 | \$5,000 | Pump Maintenance | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |
| EA9A | 143000116 | 0% | | | 0 | | Transportation and agricultural benefits | Project delivers benefits in 2 wider benefit categories | 2 | \$10,000 | Sediment Clearing | Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular) | 7 |



| Project Name | FMP ID | Score 12: Admin, Regulatory Obstacles | | | Score 13: Environmental Benefit | | | Score 14: Environmental Impact | | | Score 15: Mobility | | | |
|--------------|-----------|--|---|----------|---|--|----------|---|---|----------|-------------------------------|----------|---|----------|
| | | Notes 12 | Administrative, Regulatory and Other Obstacle Ranking | Score 12 | Notes 13 | Environmental Benefit Ranking | Score 13 | Notes 14 | Environmental Impact Ranking | Score 14 | Traffic Count for LWC Project | Notes 15 | Mobility Ranking | Score 15 |
| MON3 | 143000024 | High bird nesting, reptile, and mammal habitat potential throughout project area. Low amphibian habitat potential in low, depression areas. Federally listed southwestern willow flycatcher and western yellow-billed cuckoo could occur in riparian habitats. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Captures sediment coming down the arroyos reducing sedimentation, slowing velocities (erosion), and promotes infiltration. | Project will deliver a low level of environmental benefits (benefits in only 1 category) | 3 | Potential for impacts to protected species and stream channels. One prehistoric archaeological site is located within the proposed project area with undetermined NRHP eligibility, recommend structured cultural resources survey | Project will have adverse environmental impacts in 2-3 environmental categories | 3 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| HAC3 | 143000025 | Potential for impacts to protected species and stream channels. National Register district compliance. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Captures sediment coming down the arroyos reducing sedimentation, slowing velocities (erosion), and promotes infiltration. Agricultural Properties removed from flooding. | Project will deliver a moderate level of environmental benefits (benefits in 2-3 categories) | 6 | The state threatened Texas horned lizard may be present in open habitats. Located within the EPCWID1 National Register District, requiring cultural resources survey. | Project will have adverse environmental impacts in 2-3 environmental categories | 3 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| NW16 | 143000097 | Low potential for impacts to protected species. National Register district compliance. | Project has few administrative, regulatory and implementation limitations / requirements | 10 | | Project does not provide any environmental benefits | 0 | Low potential for impacts to protected species. | Project will have adverse environmental impacts in 1 environmental category | 6 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| NE3B | 143000100 | No state or federally listed species are likely to occur within or adjacent to the project area. | Project has few administrative, regulatory and implementation limitations / requirements | 10 | Captures sediment and trash, improving water quality. Slows velocities by adding storage volume to the system. | Project will deliver a low level of environmental benefits (benefits in only 1 category) | 3 | Low potential for impacts based on desktop analysis and available information. | Project has no adverse environmental impacts | 10 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| EA10A | 143000105 | Federally listed southwestern willow flycatcher and western yellow-billed cuckoo could occur in riparian habitats. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Captures sediment coming down the arroyos reducing sedimentation, slowing velocities (erosion), and promotes infiltration. Agricultural Properties removed from flooding. | Project will deliver a moderate level of environmental benefits (benefits in 2-3 categories) | 6 | Federally listed southwestern willow flycatcher and western yellow-billed cuckoo could occur in riparian habitats. | Project will have adverse environmental impacts in 1 environmental category | 6 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |
| NW3 | 143000111 | Low bird nesting potential along proposed new force main. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Catch screen will filter out trash and debris from drainage. | Project will deliver a low level of environmental benefits (benefits in only 1 category) | 3 | Low bird nesting potential along proposed new force main. | Project has no adverse environmental impacts | 10 | | | Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area. | 10 |
| NW26 | 143000113 | Moderate bird nesting, mammal, and reptile potential habitat adjacent to Rio Grande River. Federally listed southwestern willow flycatcher and western yellow-billed cuckoo could occur in riparian habitats. | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Construction of artificial wetland will improve wildlife habitat and water quality in the area. | Project will deliver a moderate level of environmental benefits (benefits in 2-3 categories) | 6 | Proposed constructed wetland is directly adjacent to but not connected to Segment 2314 of the Rio Grande River, TCEQ classifies this portion of the river as impaired due to bacteria in water. Cultural resource survey recommended due to close proximity (0.2 mi) to Elephant Butte Irrigation National Register District. | Project will have adverse environmental impacts in 2-3 environmental categories | 3 | | | Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area. | 10 |
| EA9A | 143000116 | Low potential for impacts to protected species; cultural resources due diligence survey recommended | Project has a typical number of administrative, regulatory and limitations / requirements | 6 | Captures sediment coming down the arroyos reducing sedimentation, slowing velocities (erosion), and promotes infiltration. Agricultural Properties removed from flooding. | Project will deliver a moderate level of environmental benefits (benefits in 2-3 categories) | 6 | Low potential for impacts based on desktop analysis and available information. | Project has no adverse environmental impacts | 10 | | | Project provides no change to major, minor, or emergency access routes in the project area. | 0 |

Appendix 5H

Hydraulic Model Depth Results and Buildings Analyzed

Appendix 5H

EA9A (FMP ID: 143000116) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 568680 | 3639.03 | 3639.53 | 3639.88 | 3639.42 | 0.35 | 0.00 | -0.35 |
| | 123037 | 3638.50 | 3639.00 | 3639.88 | 3639.41 | 0.88 | 0.41 | -0.47 |
| | 398344 | 3643.23 | 3643.73 | 3643.77 | 3643.54 | 0.04 | 0.00 | -0.04 |
| | 451120 | 3652.65 | 3653.15 | 3653.52 | 3653.33 | 0.37 | 0.18 | -0.19 |
| | 492701 | 3652.55 | 3653.05 | 3653.52 | 3653.32 | 0.47 | 0.28 | -0.19 |
| | 166442 | 3652.58 | 3653.08 | 3653.52 | 3653.33 | 0.44 | 0.25 | -0.19 |
| | 76960 | 3653.67 | 3654.17 | 3654.41 | 3654.17 | 0.24 | 0.00 | -0.24 |
| | 77779 | 3766.47 | 3766.97 | 3769.53 | 0.00 | 2.56 | 0.00 | -2.56 |
| | 30575 | 3765.83 | 3766.33 | 3770.70 | 0.00 | 4.38 | 0.00 | -4.38 |
| | 679498 | 3780.01 | 3780.51 | 3781.74 | 0.00 | 1.22 | 0.00 | -1.22 |
| 701113 | 3780.34 | 3780.84 | 3783.13 | 0.00 | 2.29 | 0.00 | -2.29 | |
| 1% Annual Chance Commercial Buildings | 425531 | 3754.56 | 3755.06 | 3755.22 | 3754.58 | 0.16 | 0.00 | -0.16 |
| | 701110 | 3774.23 | 3774.73 | 3777.94 | 0.00 | 3.21 | 0.00 | -3.21 |
| | 701111 | 3790.29 | 3790.79 | 3791.27 | 0.00 | 0.48 | 0.00 | -0.48 |
| | 679516 | 3795.34 | 3795.84 | 3796.73 | 0.00 | 0.89 | 0.00 | -0.89 |
| | 77892 | 3803.52 | 3804.02 | 3805.21 | 0.00 | 1.19 | 0.00 | -1.19 |
| | 77768 | 3807.43 | 3807.93 | 3808.52 | 0.00 | 0.59 | 0.00 | -0.59 |
| 0.2% Annual Chance Residences | 75658 | 3639.88 | 3640.38 | 3640.59 | 3640.56 | 0.21 | 0.18 | -0.03 |
| | 568680 | 3639.03 | 3639.53 | 3640.61 | 3640.58 | 1.07 | 1.04 | -0.03 |
| | 28170 | 3643.78 | 3644.28 | 3644.37 | 3644.33 | 0.10 | 0.06 | -0.04 |
| | 399236 | 3643.67 | 3644.17 | 3644.39 | 3644.35 | 0.22 | 0.18 | -0.04 |
| | 589672 | 3643.86 | 3644.36 | 3644.39 | 3644.35 | 0.03 | 0.00 | -0.03 |
| | 203019 | 3643.74 | 3644.24 | 3644.45 | 3644.39 | 0.21 | 0.16 | -0.05 |
| | 492381 | 3644.11 | 3644.61 | 3644.67 | 3644.62 | 0.06 | 0.01 | -0.05 |
| | 589968 | 3653.59 | 3654.09 | 3654.41 | 3654.23 | 0.31 | 0.13 | -0.18 |
| | 633160 | 3653.27 | 3653.77 | 3654.40 | 3654.22 | 0.63 | 0.45 | -0.18 |
| | 126183 | 3830.28 | 3830.78 | 3831.50 | 3831.50 | 0.72 | 0.72 | 0.00 |
| | 348053 | 3648.84 | 3649.34 | 3650.19 | 3649.72 | 0.85 | 0.38 | -0.47 |
| | 633025 | 3648.87 | 3649.37 | 3650.26 | 3649.72 | 0.89 | 0.35 | -0.54 |
| | 671745 | 3648.29 | 3648.79 | 3650.19 | 3649.72 | 1.40 | 0.93 | -0.47 |
| | 124126 | 3649.37 | 3649.87 | 3650.18 | 3649.72 | 0.31 | 0.00 | -0.31 |
| | 322978 | 3649.63 | 3650.13 | 3650.19 | 3649.72 | 0.06 | 0.00 | -0.06 |
| | 164642 | 3649.14 | 3649.64 | 3650.19 | 3649.72 | 0.55 | 0.08 | -0.47 |
| | 424811 | 3653.81 | 3654.31 | 3654.38 | 3654.19 | 0.07 | 0.00 | -0.07 |
| | 3407 | 3639.66 | 3640.16 | 3640.58 | 3640.55 | 0.41 | 0.39 | -0.03 |
| | 123037 | 3638.50 | 3639.00 | 3640.58 | 3640.55 | 1.58 | 1.55 | -0.03 |
| | 204029 | 3643.81 | 3644.31 | 3644.37 | 3644.33 | 0.07 | 0.03 | -0.04 |
| | 399262 | 3643.71 | 3644.21 | 3644.37 | 3644.33 | 0.16 | 0.13 | -0.04 |
| | 283301 | 3642.28 | 3642.78 | 3643.43 | 3643.37 | 0.65 | 0.60 | -0.06 |
| | 398344 | 3643.23 | 3643.73 | 3644.37 | 3644.33 | 0.64 | 0.61 | -0.04 |
| | 240339 | 3643.84 | 3644.34 | 3644.36 | 3644.32 | 0.02 | 0.00 | -0.02 |
| | 374724 | 3643.75 | 3644.25 | 3644.34 | 3644.31 | 0.09 | 0.05 | -0.04 |
| | 399849 | 3653.73 | 3654.23 | 3654.42 | 3654.24 | 0.18 | 0.01 | -0.18 |
| | 203037 | 3653.84 | 3654.34 | 3654.42 | 3654.25 | 0.08 | 0.00 | -0.08 |
| | 75347 | 3653.72 | 3654.22 | 3654.42 | 3654.24 | 0.20 | 0.02 | -0.17 |
| | 399848 | 3653.61 | 3654.11 | 3654.42 | 3654.24 | 0.30 | 0.13 | -0.17 |
| | 654546 | 3653.58 | 3654.08 | 3654.42 | 3654.24 | 0.33 | 0.16 | -0.17 |
| | 607764 | 3653.46 | 3653.96 | 3654.42 | 3654.25 | 0.45 | 0.28 | -0.17 |
| | 243447 | 3653.74 | 3654.24 | 3654.42 | 3654.24 | 0.18 | 0.01 | -0.17 |
| | 451120 | 3652.65 | 3653.15 | 3654.42 | 3654.24 | 1.27 | 1.10 | -0.17 |
| | 492701 | 3652.55 | 3653.05 | 3654.42 | 3654.24 | 1.37 | 1.20 | -0.17 |
| | 166442 | 3652.58 | 3653.08 | 3654.42 | 3654.25 | 1.34 | 1.16 | -0.17 |
| | 300625 | 3655.27 | 3655.77 | 3655.85 | 3655.26 | 0.09 | 0.00 | -0.09 |
| | 76960 | 3653.67 | 3654.17 | 3655.46 | 3655.33 | 1.29 | 1.16 | -0.13 |
| | 4201 | 3761.27 | 3761.77 | 3762.46 | 0.00 | 0.68 | 0.00 | -0.68 |
| | 77779 | 3766.47 | 3766.97 | 3770.53 | 0.00 | 3.56 | 0.00 | -3.56 |
| | 30575 | 3765.83 | 3766.33 | 3770.94 | 0.00 | 4.61 | 0.00 | -4.61 |
| 679498 | 3780.01 | 3780.51 | 3781.88 | 0.00 | 1.37 | 0.00 | -1.37 | |
| 701113 | 3780.34 | 3780.84 | 3783.27 | 3783.27 | 2.43 | 2.43 | 0.00 | |
| 0.2% Annual Chance Commercial Buildings | 425531 | 3754.56 | 3755.06 | 3,755.35 | 3754.82 | 0.28 | 0.00 | -0.28 |
| | 701110 | 3774.23 | 3774.73 | 3,778.12 | 0.00 | 3.39 | 0.00 | -3.39 |
| | 701111 | 3790.29 | 3790.79 | 3,791.52 | 0.00 | 0.74 | 0.00 | -0.74 |
| | 679516 | 3795.34 | 3795.84 | 3,797.00 | 0.00 | 1.16 | 0.00 | -1.16 |
| | 77892 | 3803.52 | 3804.02 | 3,805.55 | 3803.78 | 1.54 | 0.00 | -1.54 |
| | 77768 | 3807.43 | 3807.93 | 3,808.89 | 3807.24 | 0.96 | 0.00 | -0.96 |

Appendix 5H

EA10A (FMP ID: 143000105) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 568680 | 3639.03 | 3639.53 | 3639.88 | 3639.58 | 0.35 | 0.04 | -0.31 |
| | 123037 | 3638.50 | 3639.00 | 3639.88 | 3639.57 | 0.88 | 0.57 | -0.31 |
| | 398344 | 3643.23 | 3643.73 | 3643.77 | 3643.61 | 0.04 | 0.00 | -0.04 |
| | 451120 | 3652.65 | 3653.15 | 3653.52 | 3653.38 | 0.37 | 0.24 | -0.14 |
| | 492701 | 3652.55 | 3653.05 | 3653.52 | 3653.38 | 0.47 | 0.33 | -0.14 |
| | 166442 | 3652.58 | 3653.08 | 3653.52 | 3653.39 | 0.44 | 0.31 | -0.14 |
| | 76960 | 3653.67 | 3654.17 | 3654.41 | 3654.25 | 0.24 | 0.07 | -0.16 |
| | 77779 | 3766.47 | 3766.97 | 3769.53 | 3769.53 | 2.56 | 2.56 | 0.00 |
| | 30575 | 3765.83 | 3766.33 | 3770.70 | 3770.70 | 4.38 | 4.38 | 0.00 |
| | 679498 | 3780.01 | 3780.51 | 3781.74 | 3781.74 | 1.22 | 1.22 | 0.00 |
| 701113 | 3780.34 | 3780.84 | 3783.13 | 3783.13 | 2.29 | 2.29 | 0.00 | |
| 1% Annual Chance Commercial Buildings | 425531 | 3754.56 | 3755.06 | 3755.22 | 3755.22 | 0.16 | 0.15 | -0.01 |
| | 701110 | 3774.23 | 3774.73 | 3777.94 | 3777.94 | 3.21 | 3.21 | 0.00 |
| | 701111 | 3790.29 | 3790.79 | 3791.27 | 3791.27 | 0.48 | 0.48 | 0.00 |
| | 679516 | 3795.34 | 3795.84 | 3796.73 | 3796.73 | 0.89 | 0.89 | 0.00 |
| | 77892 | 3803.52 | 3804.02 | 3805.21 | 3805.21 | 1.19 | 1.19 | 0.00 |
| | 77768 | 3807.43 | 3807.93 | 3808.52 | 3808.52 | 0.59 | 0.59 | 0.00 |
| 0.2% Annual Chance Residences | 75658 | 3639.88 | 3640.38 | 3640.59 | 3640.54 | 0.21 | 0.17 | -0.04 |
| | 568680 | 3639.03 | 3639.53 | 3640.61 | 3640.56 | 1.07 | 1.03 | -0.04 |
| | 28170 | 3643.78 | 3644.28 | 3644.37 | 3644.32 | 0.10 | 0.04 | -0.06 |
| | 399236 | 3643.67 | 3644.17 | 3644.39 | 3644.33 | 0.22 | 0.16 | -0.06 |
| | 589672 | 3643.86 | 3644.36 | 3644.39 | 3644.33 | 0.03 | 0.00 | -0.03 |
| | 203019 | 3643.74 | 3644.24 | 3644.45 | 3644.37 | 0.21 | 0.14 | -0.08 |
| | 492381 | 3644.11 | 3644.61 | 3644.67 | 3644.61 | 0.06 | 0.00 | -0.06 |
| | 589968 | 3653.59 | 3654.09 | 3654.41 | 3654.18 | 0.31 | 0.08 | -0.23 |
| | 633160 | 3653.27 | 3653.77 | 3654.40 | 3654.17 | 0.63 | 0.39 | -0.23 |
| | 126183 | 3830.28 | 3830.78 | 3831.50 | 3831.50 | 0.72 | 0.72 | 0.00 |
| | 348053 | 3648.84 | 3649.34 | 3650.19 | 3649.45 | 0.85 | 0.11 | -0.74 |
| | 633025 | 3648.87 | 3649.37 | 3650.26 | 3649.45 | 0.89 | 0.08 | -0.81 |
| | 671745 | 3648.29 | 3648.79 | 3650.19 | 3649.45 | 1.40 | 0.66 | -0.74 |
| | 124126 | 3649.37 | 3649.87 | 3650.18 | 3649.45 | 0.31 | 0.00 | -0.31 |
| | 322978 | 3649.63 | 3650.13 | 3650.19 | 3649.45 | 0.06 | 0.00 | -0.06 |
| | 164642 | 3649.14 | 3649.64 | 3650.19 | 3649.45 | 0.55 | 0.00 | -0.55 |
| | 424811 | 3653.81 | 3654.31 | 3654.38 | 3654.11 | 0.07 | 0.00 | -0.07 |
| | 3407 | 3639.66 | 3640.16 | 3640.58 | 3640.54 | 0.41 | 0.37 | -0.04 |
| | 123037 | 3638.50 | 3639.00 | 3640.58 | 3640.54 | 1.58 | 1.54 | -0.04 |
| | 204029 | 3643.81 | 3644.31 | 3644.37 | 3644.32 | 0.07 | 0.01 | -0.06 |
| | 399262 | 3643.71 | 3644.21 | 3644.37 | 3644.32 | 0.16 | 0.11 | -0.06 |
| | 283301 | 3642.28 | 3642.78 | 3643.43 | 3643.34 | 0.65 | 0.57 | -0.09 |
| | 398344 | 3643.23 | 3643.73 | 3644.37 | 3644.32 | 0.64 | 0.59 | -0.06 |
| | 240339 | 3643.84 | 3644.34 | 3644.36 | 3644.30 | 0.02 | 0.00 | -0.02 |
| | 374724 | 3643.75 | 3644.25 | 3644.34 | 3644.29 | 0.09 | 0.04 | -0.06 |
| | 399849 | 3653.73 | 3654.23 | 3654.42 | 3654.19 | 0.18 | 0.00 | -0.18 |
| | 203037 | 3653.84 | 3654.34 | 3654.42 | 3654.20 | 0.08 | 0.00 | -0.08 |
| | 75347 | 3653.72 | 3654.22 | 3654.42 | 3654.19 | 0.20 | 0.00 | -0.20 |
| | 399848 | 3653.61 | 3654.11 | 3654.42 | 3654.19 | 0.30 | 0.08 | -0.22 |
| | 654546 | 3653.58 | 3654.08 | 3654.42 | 3654.19 | 0.33 | 0.11 | -0.22 |
| | 607764 | 3653.46 | 3653.96 | 3654.42 | 3654.20 | 0.45 | 0.23 | -0.22 |
| | 243447 | 3653.74 | 3654.24 | 3654.42 | 3654.19 | 0.18 | 0.00 | -0.18 |
| | 451120 | 3652.65 | 3653.15 | 3654.42 | 3654.19 | 1.27 | 1.05 | -0.22 |
| | 492701 | 3652.55 | 3653.05 | 3654.42 | 3654.19 | 1.37 | 1.15 | -0.22 |
| | 166442 | 3652.58 | 3653.08 | 3654.42 | 3654.20 | 1.34 | 1.12 | -0.22 |
| | 300625 | 3655.27 | 3655.77 | 3655.85 | 3655.19 | 0.09 | 0.00 | -0.09 |
| | 76960 | 3653.67 | 3654.17 | 3655.46 | 3655.27 | 1.29 | 1.10 | -0.19 |
| | 4201 | 3761.27 | 3761.77 | 3762.46 | 3762.46 | 0.68 | 0.68 | 0.00 |
| | 77779 | 3766.47 | 3766.97 | 3770.53 | 3770.53 | 3.56 | 3.56 | 0.00 |
| | 30575 | 3765.83 | 3766.33 | 3770.94 | 3770.94 | 4.61 | 4.61 | 0.00 |
| 679498 | 3780.01 | 3780.51 | 3781.88 | 3781.88 | 1.37 | 1.37 | 0.00 | |
| 701113 | 3780.34 | 3780.84 | 3783.27 | 3783.27 | 2.43 | 2.43 | 0.00 | |
| 0.2% Annual Chance Commercial Buildings | 425531 | 3754.56 | 3755.06 | 3,755.35 | 3755.34 | 0.28 | 0.27 | -0.01 |
| | 701110 | 3774.23 | 3774.73 | 3,778.12 | 3778.12 | 3.39 | 3.39 | 0.00 |
| | 701111 | 3790.29 | 3790.79 | 3,791.52 | 3791.52 | 0.74 | 0.74 | 0.00 |
| | 679516 | 3795.34 | 3795.84 | 3,797.00 | 3797.00 | 1.16 | 1.16 | 0.00 |
| | 77892 | 3803.52 | 3804.02 | 3,805.55 | 3805.55 | 1.54 | 1.54 | 0.00 |
| | 77768 | 3807.43 | 3807.93 | 3,808.89 | 3808.89 | 0.96 | 0.96 | 0.00 |

Appendix 5H

HAC3 (FMP ID: 14300025) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 504775 | 3627.17 | 3627.67 | 3627.73 | 0.00 | 0.07 | 0.00 | -0.07 |
| | 671136 | 3627.12 | 3627.62 | 3627.73 | 0.00 | 0.12 | 0.00 | -0.12 |
| | 424049 | 3627.21 | 3627.71 | 3627.73 | 0.00 | 0.03 | 0.00 | -0.03 |
| | 530124 | 3627.09 | 3627.59 | 3627.73 | 0.00 | 0.15 | 0.00 | -0.15 |
| | 321773 | 3627.14 | 3627.64 | 3627.73 | 0.00 | 0.09 | 0.00 | -0.09 |
| | 44984 | 3631.10 | 3631.60 | 3631.67 | 3631.13 | 0.07 | 0.00 | -0.07 |
| | 655059 | 3645.09 | 3645.59 | 3645.84 | 0.00 | 0.25 | 0.00 | -0.25 |
| | 202948 | 3632.66 | 3633.16 | 3633.35 | 3632.77 | 0.19 | 0.00 | -0.19 |
| | 627999 | 3639.27 | 3639.77 | 3640.04 | 3639.74 | 0.27 | 0.00 | -0.27 |
| 449678 | 3639.99 | 3640.49 | 3640.77 | 3640.05 | 0.28 | 0.00 | -0.28 | |
| 0.2% Annual Chance Residences | 530123 | 3625.97 | 3626.47 | 3626.58 | 3625.93 | 0.11 | 0.00 | -0.11 |
| | 119717 | 3625.55 | 3626.05 | 3626.58 | 3625.93 | 0.53 | 0.00 | -0.53 |
| | 504775 | 3627.17 | 3627.67 | 3628.02 | 3627.77 | 0.35 | 0.11 | -0.25 |
| | 671136 | 3627.12 | 3627.62 | 3628.02 | 3627.77 | 0.40 | 0.15 | -0.25 |
| | 423490 | 3627.37 | 3627.87 | 3628.02 | 3627.77 | 0.15 | 0.00 | -0.15 |
| | 424049 | 3627.21 | 3627.71 | 3628.02 | 3627.77 | 0.31 | 0.06 | -0.25 |
| | 530124 | 3627.09 | 3627.59 | 3628.02 | 3627.77 | 0.43 | 0.18 | -0.25 |
| | 321773 | 3627.14 | 3627.64 | 3628.02 | 3627.77 | 0.38 | 0.13 | -0.25 |
| | 121724 | 3627.43 | 3627.93 | 3628.02 | 3627.77 | 0.09 | 0.00 | -0.09 |
| | 517547 | 3627.26 | 3627.76 | 3628.03 | 3627.78 | 0.27 | 0.02 | -0.25 |
| | 346765 | 3630.40 | 3630.90 | 3630.97 | 3630.66 | 0.07 | 0.00 | -0.07 |
| | 44984 | 3631.10 | 3631.60 | 3631.93 | 3631.63 | 0.33 | 0.03 | -0.30 |
| | 44985 | 3637.67 | 3638.17 | 3638.33 | 3638.16 | 0.17 | 0.00 | -0.17 |
| | 655059 | 3645.09 | 3645.59 | 3646.17 | 3645.87 | 0.58 | 0.28 | -0.30 |
| | 202948 | 3632.66 | 3633.16 | 3633.76 | 3633.32 | 0.59 | 0.16 | -0.43 |
| | 27563 | 3632.50 | 3633.00 | 3633.12 | 3632.90 | 0.12 | 0.00 | -0.12 |
| | 627999 | 3639.27 | 3639.77 | 3640.35 | 3640.06 | 0.59 | 0.29 | -0.29 |
| 449678 | 3639.99 | 3640.49 | 3641.02 | 3640.79 | 0.53 | 0.30 | -0.23 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 504571 | 4073.16 | 4073.66 | 4076.25 | 0.00 | 2.59 | 0.00 | -2.59 |
| | 261492 | 4047.85 | 4048.35 | 4054.49 | 4054.48 | 6.14 | 6.13 | -0.01 |
| | 27900 | 4051.53 | 4052.03 | 4055.13 | 4055.13 | 3.11 | 3.11 | 0.00 |
| | 119572 | 4051.32 | 4051.82 | 4055.14 | 4055.14 | 3.31 | 3.31 | 0.00 |
| | 627862 | 4063.52 | 4064.02 | 4064.61 | 4064.22 | 0.59 | 0.20 | -0.40 |
| | 44836 | 4064.41 | 4064.91 | 4065.41 | 4065.13 | 0.50 | 0.22 | -0.29 |
| | 74280 | 4064.92 | 4065.42 | 4065.84 | 4065.50 | 0.42 | 0.08 | -0.33 |
| | 654537 | 4066.47 | 4066.97 | 4067.04 | 0.00 | 0.07 | 0.00 | -0.07 |
| | 120714 | 4065.87 | 4066.37 | 4066.59 | 4066.14 | 0.21 | 0.00 | -0.21 |
| | 475030 | 4065.91 | 4066.41 | 4066.46 | 4066.23 | 0.05 | 0.00 | -0.05 |
| | 653536 | 4066.80 | 4067.30 | 4067.32 | 4066.96 | 0.02 | 0.00 | -0.02 |
| | 542679 | 4065.57 | 4066.07 | 4066.61 | 4066.27 | 0.54 | 0.20 | -0.34 |
| | 606851 | 4065.44 | 4065.94 | 4066.63 | 4066.26 | 0.69 | 0.32 | -0.37 |
| | 261453 | 4065.77 | 4066.27 | 4066.87 | 4066.33 | 0.60 | 0.06 | -0.54 |
| | 239411 | 4066.40 | 4066.90 | 4067.34 | 4066.64 | 0.44 | 0.00 | -0.44 |
| | 423787 | 4066.28 | 4066.78 | 4067.28 | 4066.64 | 0.51 | 0.00 | -0.51 |
| | 74134 | 4062.83 | 4063.33 | 4063.81 | 0.00 | 0.48 | 0.00 | -0.48 |
| | 448633 | 4500.15 | 4500.65 | 4502.62 | 4502.62 | 1.97 | 1.97 | 0.00 |
| | 449286 | 4061.91 | 4062.41 | 4063.38 | 4063.27 | 0.96 | 0.86 | -0.10 |
| | 346344 | 4061.19 | 4061.69 | 4061.81 | 4061.52 | 0.13 | 0.00 | -0.13 |
| | 299706 | 4041.76 | 4042.26 | 4042.31 | 0.00 | 0.05 | 0.00 | -0.05 |
| | 119597 | 4043.14 | 4043.64 | 4044.07 | 0.00 | 0.43 | 0.00 | -0.43 |
| | 373854 | 4041.75 | 4042.25 | 4043.04 | 4042.67 | 0.79 | 0.42 | -0.37 |
| | 74296 | 4047.12 | 4047.62 | 4048.69 | 0.00 | 1.07 | 0.00 | -1.07 |
| | 121006 | 4062.55 | 4063.05 | 4063.39 | 4061.47 | 0.34 | 0.00 | -0.34 |
| | 239840 | 4062.86 | 4063.36 | 4063.55 | 0.00 | 0.18 | 0.00 | -0.18 |
| | 120885 | 4043.55 | 4044.05 | 4044.59 | 4044.40 | 0.54 | 0.36 | -0.19 |
| | 320627 | 4062.74 | 4063.24 | 4063.26 | 4062.17 | 0.02 | 0.00 | -0.02 |
| | 27885 | 4062.81 | 4063.31 | 4063.43 | 4063.06 | 0.12 | 0.00 | -0.12 |
| | 606868 | 4042.07 | 4042.57 | 4043.17 | 4042.94 | 0.60 | 0.37 | -0.23 |
| | 282281 | 4062.41 | 4062.91 | 4063.38 | 0.00 | 0.47 | 0.00 | -0.47 |
| | 373852 | 4042.20 | 4042.70 | 4043.49 | 4042.98 | 0.79 | 0.28 | -0.51 |
| | 606865 | 4043.11 | 4043.61 | 4044.40 | 4044.00 | 0.78 | 0.39 | -0.40 |
| | 321519 | 4044.47 | 4044.97 | 4045.40 | 0.00 | 0.43 | 0.00 | -0.43 |
| | 239422 | 4048.63 | 4049.13 | 4049.13 | 0.00 | 0.01 | 0.00 | -0.01 |
| | 73971 | 4062.00 | 4062.50 | 4063.58 | 0.00 | 1.08 | 0.00 | -1.08 |
| | 346421 | 4043.56 | 4044.06 | 4045.04 | 0.00 | 0.98 | 0.00 | -0.98 |
| | 491889 | 4045.08 | 4045.58 | 4046.84 | 4046.50 | 1.26 | 0.92 | -0.34 |
| | 27395 | 4046.84 | 4047.34 | 4048.17 | 4047.72 | 0.84 | 0.38 | -0.46 |
| | 654724 | 4046.00 | 4046.50 | 4047.32 | 4046.85 | 0.82 | 0.35 | -0.47 |
| | 73400 | 4063.02 | 4063.52 | 4063.58 | 4063.14 | 0.06 | 0.00 | -0.06 |
| | 121290 | 4063.74 | 4064.24 | 4064.34 | 4063.82 | 0.10 | 0.00 | -0.10 |
| | 321414 | 4062.30 | 4062.80 | 4063.57 | 4061.84 | 0.77 | 0.00 | -0.77 |
| | 73973 | 4062.86 | 4063.36 | 4063.57 | 0.00 | 0.21 | 0.00 | -0.21 |
| | 201555 | 4063.95 | 4064.45 | 4064.69 | 4064.29 | 0.25 | 0.00 | -0.25 |
| | 239968 | 4050.05 | 4050.55 | 4050.85 | 4050.63 | 0.30 | 0.09 | -0.21 |
| | 653546 | 4048.56 | 4049.06 | 4049.62 | 0.00 | 0.56 | 0.00 | -0.56 |
| | 44845 | 4044.89 | 4045.39 | 4045.93 | 0.00 | 0.54 | 0.00 | -0.54 |
| | 163740 | 4047.21 | 4047.71 | 4048.26 | 0.00 | 0.55 | 0.00 | -0.55 |
| | 593239 | 4042.08 | 4042.58 | 4043.02 | 4042.54 | 0.43 | 0.00 | -0.43 |
| 474536 | 4041.28 | 4041.78 | 4042.35 | 0.00 | 0.57 | 0.00 | -0.57 | |
| 423811 | 4041.23 | 4041.73 | 4042.41 | 4042.10 | 0.68 | 0.37 | -0.31 | |
| 2350 | 4061.00 | 4061.50 | 4063.59 | 4059.28 | 2.09 | 0.00 | -2.09 | |
| 568224 | 4046.49 | 4046.99 | 4047.75 | 4046.91 | 0.76 | 0.00 | -0.76 | |
| 653545 | 4052.14 | 4052.64 | 4053.38 | 0.00 | 0.74 | 0.00 | -0.74 | |
| 27415 | 4041.02 | 4041.52 | 4042.48 | 0.00 | 0.97 | 0.00 | -0.97 | |
| 627871 | 4047.00 | 4047.50 | 4048.14 | 0.00 | 0.63 | 0.00 | -0.63 | |
| 162747 | 4062.78 | 4063.28 | 4063.59 | 0.00 | 0.31 | 0.00 | -0.31 | |
| 372040 | 4041.03 | 4041.53 | 4042.34 | 4042.03 | 0.82 | 0.50 | -0.31 | |
| 491890 | 4043.10 | 4043.60 | 4044.44 | 0.00 | 0.84 | 0.00 | -0.84 | |
| 44850 | 4042.70 | 4043.20 | 4044.17 | 0.00 | 0.97 | 0.00 | -0.97 | |
| 398032 | 4042.27 | 4042.77 | 4042.77 | 4042.33 | 0.00 | 0.00 | 0.00 | |
| 593232 | 4044.25 | 4044.75 | 4045.43 | 0.00 | 0.68 | 0.00 | -0.68 | |
| 241006 | 4044.97 | 4045.47 | 4046.04 | 4045.85 | 0.58 | 0.39 | -0.19 | |
| 27402 | 4043.14 | 4043.64 | 4044.58 | 4044.03 | 0.94 | 0.39 | -0.55 | |
| 542687 | 4052.73 | 4053.23 | 4053.29 | 0.00 | 0.06 | 0.00 | -0.06 | |
| 27995 | 4042.52 | 4043.02 | 4044.22 | 4043.83 | 1.20 | 0.82 | -0.38 | |
| 504681 | 4045.33 | 4045.83 | 4046.53 | 4046.33 | 0.69 | 0.50 | -0.20 | |
| 504674 | 4046.93 | 4047.43 | 4048.69 | 0.00 | 1.27 | 0.00 | -1.27 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 568225 | 4045.78 | 4046.28 | 4046.94 | 4046.75 | 0.66 | 0.47 | -0.19 |
| | 241025 | 4040.66 | 4041.16 | 4042.33 | 4042.03 | 1.17 | 0.87 | -0.30 |
| | 517464 | 4042.83 | 4043.33 | 4044.16 | 4043.92 | 0.83 | 0.59 | -0.24 |
| | 627872 | 4048.69 | 4049.19 | 4049.92 | 4049.55 | 0.73 | 0.36 | -0.37 |
| | 423342 | 4062.94 | 4063.44 | 4063.74 | 4062.40 | 0.31 | 0.00 | -0.31 |
| | 449400 | 4040.72 | 4041.22 | 4042.41 | 4042.07 | 1.19 | 0.85 | -0.34 |
| | 44860 | 4040.47 | 4040.97 | 4042.33 | 4042.03 | 1.36 | 1.06 | -0.30 |
| | 1997 | 4040.69 | 4041.19 | 4042.39 | 4042.04 | 1.20 | 0.85 | -0.35 |
| | 398024 | 4043.03 | 4043.53 | 4044.61 | 4044.61 | 1.08 | 1.08 | 0.00 |
| | 73446 | 4056.02 | 4056.52 | 4058.93 | 4057.78 | 2.40 | 1.26 | -1.15 |
| | 654634 | 4065.43 | 4065.93 | 4065.98 | 4065.37 | 0.05 | 0.00 | -0.05 |
| | 239974 | 4050.32 | 4050.82 | 4051.37 | 0.00 | 0.54 | 0.00 | -0.54 |
| | 449382 | 4061.87 | 4062.37 | 4062.48 | 4062.17 | 0.11 | 0.00 | -0.11 |
| | 423381 | 4055.55 | 4056.05 | 4058.40 | 0.00 | 2.35 | 0.00 | -2.35 |
| | 163023 | 4044.95 | 4045.45 | 4045.72 | 4045.53 | 0.27 | 0.09 | -0.18 |
| | 517462 | 4043.41 | 4043.91 | 4044.41 | 4044.26 | 0.50 | 0.36 | -0.14 |
| | 162877 | 4060.81 | 4061.31 | 4061.78 | 0.00 | 0.46 | 0.00 | -0.46 |
| | 530022 | 4047.60 | 4048.10 | 4049.57 | 4049.15 | 1.47 | 1.04 | -0.42 |
| | 504675 | 4050.21 | 4050.71 | 4051.18 | 4051.12 | 0.48 | 0.42 | -0.06 |
| | 530015 | 4061.62 | 4062.12 | 4062.34 | 4062.07 | 0.22 | 0.00 | -0.22 |
| | 2459 | 4059.98 | 4060.48 | 4061.95 | 4061.45 | 1.47 | 0.96 | -0.51 |
| | 517430 | 4066.40 | 4066.90 | 4066.91 | 4066.49 | 0.02 | 0.00 | -0.02 |
| | 73392 | 4064.47 | 4064.97 | 4065.06 | 4063.81 | 0.09 | 0.00 | -0.09 |
| | 163024 | 4041.53 | 4042.03 | 4043.26 | 4043.15 | 1.23 | 1.12 | -0.11 |
| | 627850 | 4066.55 | 4067.05 | 4067.12 | 4066.64 | 0.07 | 0.00 | -0.07 |
| | 282350 | 4043.83 | 4044.33 | 4045.34 | 4045.15 | 1.01 | 0.82 | -0.19 |
| | 530023 | 4046.62 | 4047.12 | 4047.63 | 0.00 | 0.51 | 0.00 | -0.51 |
| | 27397 | 4050.09 | 4050.59 | 4051.37 | 4051.35 | 0.78 | 0.76 | -0.02 |
| | 320662 | 4041.91 | 4042.41 | 4043.43 | 4043.30 | 1.02 | 0.89 | -0.13 |
| | 282353 | 4043.77 | 4044.27 | 4045.50 | 4045.31 | 1.23 | 1.05 | -0.19 |
| | 606857 | 4059.35 | 4059.85 | 4060.01 | 0.00 | 0.15 | 0.00 | -0.15 |
| | 121022 | 4066.84 | 4067.34 | 4067.42 | 4066.84 | 0.07 | 0.00 | -0.07 |
| | 201557 | 4066.36 | 4066.86 | 4067.31 | 4066.72 | 0.45 | 0.00 | -0.45 |
| | 202084 | 4065.99 | 4066.49 | 4067.20 | 4066.68 | 0.71 | 0.19 | -0.51 |
| | 74301 | 4041.79 | 4042.29 | 4043.40 | 4043.28 | 1.11 | 0.99 | -0.12 |
| | 589160 | 4043.51 | 4044.01 | 4045.46 | 4045.35 | 1.45 | 1.33 | -0.11 |
| | 163748 | 4041.88 | 4042.38 | 4043.41 | 4043.32 | 1.03 | 0.94 | -0.09 |
| | 261460 | 4060.12 | 4060.62 | 4060.96 | 0.00 | 0.34 | 0.00 | -0.34 |
| | 162803 | 4065.81 | 4066.31 | 4066.70 | 4065.44 | 0.39 | 0.00 | -0.39 |
| | 371988 | 4064.77 | 4065.27 | 4065.41 | 4064.23 | 0.14 | 0.00 | -0.14 |
| | 346423 | 4042.39 | 4042.89 | 4044.01 | 4043.00 | 1.13 | 0.12 | -1.01 |
| | 491860 | 4066.74 | 4067.24 | 4067.91 | 4066.94 | 0.67 | 0.00 | -0.67 |
| | 346333 | 4067.24 | 4067.74 | 4067.94 | 4066.94 | 0.20 | 0.00 | -0.20 |
| | 491922 | 4038.46 | 4038.96 | 4041.17 | 4040.21 | 2.21 | 1.24 | -0.96 |
| | 2030 | 4038.16 | 4038.66 | 4041.18 | 4040.21 | 2.52 | 1.55 | -0.97 |
| | 568270 | 4038.35 | 4038.85 | 4041.16 | 4040.20 | 2.31 | 1.36 | -0.95 |
| | 654841 | 4038.99 | 4039.49 | 4041.14 | 4040.19 | 1.64 | 0.70 | -0.94 |
| | 321623 | 4038.29 | 4038.79 | 4041.24 | 4040.32 | 2.45 | 1.54 | -0.91 |
| | 563564 | 4039.26 | 4039.76 | 4041.10 | 4040.16 | 1.34 | 0.40 | -0.94 |
| | 73492 | 4037.85 | 4038.35 | 4041.43 | 4040.53 | 3.08 | 2.18 | -0.90 |
| 320713 | 4038.49 | 4038.99 | 4041.10 | 4040.16 | 2.11 | 1.16 | -0.95 | |
| 563551 | 4038.90 | 4039.40 | 4041.22 | 4040.31 | 1.82 | 0.91 | -0.91 | |
| 44884 | 4038.54 | 4039.04 | 4041.11 | 4040.16 | 2.07 | 1.12 | -0.95 | |
| 239481 | 4038.61 | 4039.11 | 4041.09 | 4040.13 | 1.98 | 1.03 | -0.96 | |
| 371880 | 4078.63 | 4079.13 | 4079.35 | 4077.98 | 0.22 | 0.00 | -0.22 | |
| 474635 | 4026.38 | 4026.88 | 4027.82 | 4026.82 | 0.94 | 0.00 | -0.94 | |
| 201845 | 4038.64 | 4039.14 | 4040.99 | 4040.03 | 1.85 | 0.89 | -0.96 | |
| 163946 | 4038.46 | 4038.96 | 4041.14 | 4040.25 | 2.19 | 1.29 | -0.90 | |
| 299643 | 4071.41 | 4071.91 | 4072.32 | 4070.87 | 0.41 | 0.00 | -0.41 | |
| 282500 | 4026.36 | 4026.86 | 4027.84 | 4026.86 | 0.98 | 0.00 | -0.98 | |
| 27490 | 4026.48 | 4026.98 | 4027.88 | 4027.02 | 0.89 | 0.04 | -0.85 | |
| 653636 | 4028.89 | 4029.39 | 4030.35 | 4029.60 | 0.95 | 0.21 | -0.75 | |
| 627723 | 4078.25 | 4078.75 | 4079.31 | 4077.97 | 0.57 | 0.00 | -0.57 | |
| 120472 | 4078.12 | 4078.62 | 4079.33 | 4077.98 | 0.72 | 0.00 | -0.72 | |
| 201019 | 4078.39 | 4078.89 | 4079.37 | 4077.98 | 0.48 | 0.00 | -0.48 | |
| 448653 | 4078.71 | 4079.21 | 4079.39 | 4077.99 | 0.18 | 0.00 | -0.18 | |
| 201497 | 4078.75 | 4079.25 | 4079.36 | 4077.99 | 0.11 | 0.00 | -0.11 | |
| 162824 | 4065.74 | 4066.24 | 4067.73 | 4067.02 | 1.49 | 0.79 | -0.70 | |
| 282540 | 4066.45 | 4066.95 | 4068.08 | 4067.35 | 1.13 | 0.40 | -0.73 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 2146 | 4078.62 | 4079.12 | 4079.38 | 4078.00 | 0.26 | 0.00 | -0.26 |
| | 397567 | 4066.75 | 4067.25 | 4067.87 | 4067.05 | 0.62 | 0.00 | -0.62 |
| | 119575 | 4066.86 | 4067.36 | 4068.01 | 4067.11 | 0.65 | 0.00 | -0.65 |
| | 653541 | 4066.94 | 4067.44 | 4068.28 | 4067.32 | 0.84 | 0.00 | -0.84 |
| | 201671 | 4066.52 | 4067.02 | 4068.22 | 4067.24 | 1.20 | 0.22 | -0.97 |
| | 164322 | 4022.82 | 4023.32 | 4027.73 | 4026.80 | 4.41 | 3.47 | -0.93 |
| | 423366 | 4066.89 | 4067.39 | 4068.25 | 0.00 | 0.86 | 0.00 | -0.86 |
| | 346354 | 4066.99 | 4067.49 | 4068.26 | 0.00 | 0.77 | 0.00 | -0.77 |
| | 491980 | 4027.15 | 4027.65 | 4028.39 | 4028.06 | 0.74 | 0.41 | -0.33 |
| | 44959 | 4024.14 | 4024.64 | 4027.73 | 4026.80 | 3.09 | 2.16 | -0.93 |
| | 28252 | 4022.21 | 4022.71 | 4027.73 | 4026.80 | 5.01 | 4.09 | -0.93 |
| | 74283 | 4067.61 | 4068.11 | 4068.15 | 0.00 | 0.04 | 0.00 | -0.04 |
| | 632237 | 4024.95 | 4025.45 | 4027.74 | 4026.80 | 2.28 | 1.35 | -0.93 |
| | 593200 | 4067.56 | 4068.06 | 4068.16 | 0.00 | 0.09 | 0.00 | -0.09 |
| | 201670 | 4067.50 | 4068.00 | 4068.06 | 0.00 | 0.06 | 0.00 | -0.06 |
| | 504796 | 4023.58 | 4024.08 | 4027.72 | 4026.80 | 3.64 | 2.71 | -0.92 |
| | 163013 | 4067.07 | 4067.57 | 4068.11 | 0.00 | 0.54 | 0.00 | -0.54 |
| | 517562 | 4026.04 | 4026.54 | 4027.85 | 4027.12 | 1.30 | 0.58 | -0.72 |
| | 398014 | 4067.10 | 4067.60 | 4068.03 | 0.00 | 0.44 | 0.00 | -0.44 |
| | 320799 | 4022.72 | 4023.22 | 4027.72 | 4026.80 | 4.50 | 3.58 | -0.92 |
| | 491874 | 4067.03 | 4067.53 | 4068.04 | 0.00 | 0.51 | 0.00 | -0.51 |
| | 320773 | 4025.43 | 4025.93 | 4028.07 | 4027.63 | 2.14 | 1.70 | -0.44 |
| | 321883 | 4024.64 | 4025.14 | 4025.41 | 4024.50 | 0.27 | 0.00 | -0.27 |
| | 423550 | 4024.63 | 4025.13 | 4027.71 | 4026.80 | 2.58 | 1.67 | -0.91 |
| | 2080 | 4025.57 | 4026.07 | 4028.12 | 4027.74 | 2.06 | 1.68 | -0.38 |
| | 74088 | 4071.62 | 4072.12 | 4073.11 | 4071.77 | 0.99 | 0.00 | -0.99 |
| | 299688 | 4066.70 | 4067.20 | 4068.11 | 0.00 | 0.92 | 0.00 | -0.92 |
| | 239568 | 4020.18 | 4020.68 | 4027.72 | 4026.80 | 7.04 | 6.12 | -0.92 |
| | 491873 | 4067.37 | 4067.87 | 4068.27 | 0.00 | 0.40 | 0.00 | -0.40 |
| | 346780 | 4024.57 | 4025.07 | 4025.81 | 0.00 | 0.74 | 0.00 | -0.74 |
| | 397709 | 4020.48 | 4020.98 | 4027.72 | 4026.80 | 6.74 | 5.82 | -0.92 |
| | 241410 | 4021.45 | 4021.95 | 4027.72 | 4026.80 | 5.77 | 4.85 | -0.92 |
| | 4865953 | 4024.47 | 4024.97 | 4025.86 | 0.00 | 0.89 | 0.00 | -0.89 |
| | 423786 | 4067.25 | 4067.75 | 4068.15 | 0.00 | 0.41 | 0.00 | -0.41 |
| | 202783 | 4025.40 | 4025.90 | 4026.63 | 0.00 | 0.73 | 0.00 | -0.73 |
| | 654965 | 4021.00 | 4021.50 | 4027.72 | 4026.80 | 6.22 | 5.30 | -0.92 |
| | 74089 | 4071.23 | 4071.73 | 4073.11 | 4071.77 | 1.39 | 0.04 | -1.34 |
| | 398013 | 4067.37 | 4067.87 | 4068.35 | 0.00 | 0.48 | 0.00 | -0.48 |
| | 121671 | 4026.02 | 4026.52 | 4027.09 | 0.00 | 0.57 | 0.00 | -0.57 |
| | 589083 | 4073.49 | 4073.99 | 4074.32 | 4073.11 | 0.33 | 0.00 | -0.33 |
| | 373833 | 4067.09 | 4067.59 | 4068.14 | 0.00 | 0.55 | 0.00 | -0.55 |
| | 653660 | 4019.61 | 4020.11 | 4027.71 | 4026.80 | 7.61 | 6.69 | -0.92 |
| | 346777 | 4025.61 | 4026.11 | 4027.00 | 0.00 | 0.88 | 0.00 | -0.88 |
| | 44786 | 4071.15 | 4071.65 | 4072.92 | 4071.67 | 1.27 | 0.03 | -1.25 |
| | 73580 | 4022.52 | 4023.02 | 4027.72 | 4026.80 | 4.69 | 3.77 | -0.92 |
| | 346762 | 4022.98 | 4023.48 | 4027.72 | 4026.80 | 4.24 | 3.32 | -0.92 |
| | 346142 | 4079.41 | 4079.91 | 4080.96 | 4079.99 | 1.06 | 0.09 | -0.97 |
| | 299631 | 4071.64 | 4072.14 | 4073.10 | 4071.76 | 0.96 | 0.00 | -0.96 |
| | 240996 | 4066.67 | 4067.17 | 4068.07 | 0.00 | 0.90 | 0.00 | -0.90 |
| | 27772 | 4073.06 | 4073.56 | 4074.38 | 4073.10 | 0.82 | 0.00 | -0.82 |
| 529950 | 4073.25 | 4073.75 | 4074.31 | 4073.05 | 0.55 | 0.00 | -0.55 | |
| 346388 | 4073.85 | 4074.35 | 4074.50 | 4073.26 | 0.15 | 0.00 | -0.15 | |
| 474650 | 4021.06 | 4021.56 | 4027.71 | 4026.80 | 6.15 | 5.24 | -0.91 | |
| 163097 | 4022.87 | 4023.37 | 4027.71 | 4026.80 | 4.34 | 3.43 | -0.91 | |
| 563629 | 4022.91 | 4023.41 | 4027.71 | 4026.80 | 4.30 | 3.39 | -0.91 | |
| 2110 | 4022.60 | 4023.10 | 4027.71 | 4026.80 | 4.61 | 3.70 | -0.91 | |
| 449181 | 4072.28 | 4072.78 | 4073.02 | 4071.70 | 0.24 | 0.00 | -0.24 | |
| 74282 | 4066.80 | 4067.30 | 4068.03 | 0.00 | 0.73 | 0.00 | -0.73 | |
| 321307 | 4074.29 | 4074.79 | 4074.99 | 4073.81 | 0.20 | 0.00 | -0.20 | |
| 423785 | 4066.73 | 4067.23 | 4068.04 | 0.00 | 0.81 | 0.00 | -0.81 | |
| 74279 | 4066.87 | 4067.37 | 4068.08 | 0.00 | 0.71 | 0.00 | -0.71 | |
| 120135 | 4078.82 | 4079.32 | 4080.96 | 4079.99 | 1.65 | 0.67 | -0.97 | |
| 589257 | 4023.36 | 4023.86 | 4027.71 | 4026.80 | 3.85 | 2.94 | -0.91 | |
| 74281 | 4066.55 | 4067.05 | 4068.03 | 4067.14 | 0.97 | 0.09 | -0.88 | |
| 201784 | 4072.87 | 4073.37 | 4074.56 | 4073.23 | 1.19 | 0.00 | -1.19 | |
| 654968 | 4021.83 | 4022.33 | 4027.71 | 4026.80 | 5.38 | 4.47 | -0.91 | |
| 27517 | 4024.32 | 4024.82 | 4027.70 | 4026.80 | 2.88 | 1.98 | -0.91 | |
| 606794 | 4072.86 | 4073.36 | 4074.52 | 4073.23 | 1.16 | 0.00 | -1.16 | |
| 504794 | 4021.79 | 4022.29 | 4027.71 | 4026.80 | 5.42 | 4.51 | -0.91 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 239546 | 4027.39 | 4027.89 | 4028.44 | 0.00 | 0.55 | 0.00 | -0.55 |
| | 346352 | 4066.79 | 4067.29 | 4068.33 | 0.00 | 1.05 | 0.00 | -1.05 |
| | 2450 | 4066.52 | 4067.02 | 4068.01 | 4067.13 | 0.99 | 0.11 | -0.89 |
| | 164327 | 4021.69 | 4022.19 | 4027.70 | 4026.80 | 5.52 | 4.61 | -0.91 |
| | 670940 | 4073.37 | 4073.87 | 4074.75 | 4073.46 | 0.88 | 0.00 | -0.88 |
| | 201381 | 4025.02 | 4025.52 | 4027.21 | 0.00 | 1.69 | 0.00 | -1.69 |
| | 2802 | 4022.35 | 4022.85 | 4027.70 | 4026.80 | 4.85 | 3.95 | -0.90 |
| | 201992 | 4022.35 | 4022.85 | 4027.70 | 4026.80 | 4.84 | 3.94 | -0.90 |
| | 121301 | 4066.43 | 4066.93 | 4068.32 | 0.00 | 1.39 | 0.00 | -1.39 |
| | 240273 | 4021.48 | 4021.98 | 4027.70 | 4026.80 | 5.72 | 4.82 | -0.90 |
| | 239240 | 4079.67 | 4080.17 | 4080.97 | 4080.14 | 0.81 | 0.00 | -0.81 |
| | 606982 | 4022.24 | 4022.74 | 4027.70 | 4026.80 | 4.96 | 4.06 | -0.91 |
| | 28244 | 4021.60 | 4022.10 | 4027.70 | 4026.80 | 5.60 | 4.69 | -0.91 |
| | 474654 | 4024.31 | 4024.81 | 4027.70 | 4026.80 | 2.89 | 1.99 | -0.90 |
| | 593005 | 4074.60 | 4075.10 | 4080.96 | 4079.99 | 5.86 | 4.89 | -0.97 |
| | 568164 | 4073.53 | 4074.03 | 4074.89 | 4073.59 | 0.86 | 0.00 | -0.86 |
| | 346145 | 4074.24 | 4074.74 | 4080.96 | 4079.99 | 6.23 | 5.25 | -0.97 |
| | 320804 | 4021.37 | 4021.87 | 4027.70 | 4026.80 | 5.83 | 4.93 | -0.90 |
| | 606795 | 4073.55 | 4074.05 | 4074.69 | 4073.24 | 0.64 | 0.00 | -0.64 |
| | 589034 | 4076.69 | 4077.19 | 4077.82 | 4076.83 | 0.63 | 0.00 | -0.63 |
| | 119436 | 4074.89 | 4075.39 | 4080.96 | 4079.99 | 5.57 | 4.60 | -0.97 |
| | 474352 | 4074.31 | 4074.81 | 4080.96 | 4079.99 | 6.15 | 5.18 | -0.97 |
| | 321092 | 4079.95 | 4080.45 | 4080.95 | 4079.99 | 0.51 | 0.00 | -0.51 |
| | 73685 | 4077.49 | 4077.99 | 4080.96 | 4079.99 | 2.97 | 2.00 | -0.97 |
| | 201010 | 4074.79 | 4075.29 | 4080.96 | 4079.99 | 5.67 | 4.70 | -0.97 |
| | 120250 | 4078.60 | 4079.10 | 4079.45 | 4078.47 | 0.35 | 0.00 | -0.35 |
| | 529850 | 4077.38 | 4077.88 | 4080.97 | 4079.99 | 3.08 | 2.11 | -0.97 |
| | 397418 | 4078.92 | 4079.42 | 4080.10 | 0.00 | 0.68 | 0.00 | -0.68 |
| | 239598 | 4075.33 | 4075.83 | 4077.66 | 4076.71 | 1.83 | 0.88 | -0.95 |
| | 504555 | 4079.50 | 4080.00 | 4080.09 | 4079.23 | 0.10 | 0.00 | -0.10 |
| | 73229 | 4076.24 | 4076.74 | 4080.97 | 4079.99 | 4.22 | 3.25 | -0.97 |
| | 593236 | 4049.63 | 4050.13 | 4050.37 | 0.00 | 0.24 | 0.00 | -0.24 |
| | 373463 | 4076.69 | 4077.19 | 4080.96 | 4079.98 | 3.77 | 2.79 | -0.98 |
| | 504535 | 4076.52 | 4077.02 | 4080.96 | 4079.98 | 3.93 | 2.96 | -0.98 |
| | 423443 | 4076.20 | 4076.70 | 4080.96 | 4079.98 | 4.25 | 3.28 | -0.98 |
| | 201783 | 4073.97 | 4074.47 | 4075.48 | 4074.42 | 1.01 | 0.00 | -1.01 |
| | 201208 | 4040.75 | 4041.25 | 4041.44 | 0.00 | 0.19 | 0.00 | -0.19 |
| | 120519 | 4074.73 | 4075.23 | 4075.35 | 4074.41 | 0.11 | 0.00 | -0.11 |
| | 162855 | 4072.85 | 4073.35 | 4075.49 | 4074.42 | 2.13 | 1.07 | -1.07 |
| | 449156 | 4073.98 | 4074.48 | 4075.51 | 4074.42 | 1.03 | 0.00 | -1.03 |
| | 1915 | 4074.57 | 4075.07 | 4075.48 | 4074.42 | 0.41 | 0.00 | -0.41 |
| | 201100 | 4073.23 | 4073.73 | 4075.49 | 4074.42 | 1.75 | 0.69 | -1.07 |
| | 517373 | 4073.63 | 4074.13 | 4075.50 | 4074.42 | 1.37 | 0.29 | -1.07 |
| | 627761 | 4074.67 | 4075.17 | 4076.08 | 0.00 | 0.91 | 0.00 | -0.91 |
| | 542637 | 4074.35 | 4074.85 | 4075.48 | 4074.42 | 0.64 | 0.00 | -0.64 |
| | 589081 | 4073.60 | 4074.10 | 4075.49 | 4074.42 | 1.39 | 0.32 | -1.06 |
| | 517479 | 4042.34 | 4042.84 | 4043.61 | 0.00 | 0.77 | 0.00 | -0.77 |
| | 44681 | 4194.40 | 4194.90 | 4195.90 | 4195.86 | 1.00 | 0.96 | -0.03 |
| | 627762 | 4074.75 | 4075.25 | 4076.06 | 4074.72 | 0.81 | 0.00 | -0.81 |
| | 120862 | 4074.98 | 4075.48 | 4075.93 | 4074.68 | 0.45 | 0.00 | -0.45 |
| 517348 | 4074.95 | 4075.45 | 4076.12 | 4074.83 | 0.68 | 0.00 | -0.68 | |
| 239663 | 4075.42 | 4075.92 | 4076.01 | 4074.71 | 0.09 | 0.00 | -0.09 | |
| 299594 | 4075.24 | 4075.74 | 4075.88 | 4074.58 | 0.13 | 0.00 | -0.13 | |
| 606787 | 4073.48 | 4073.98 | 4075.49 | 4074.42 | 1.50 | 0.44 | -1.07 | |
| 120373 | 4074.76 | 4075.26 | 4075.96 | 0.00 | 0.70 | 0.00 | -0.70 | |
| 654409 | 4075.39 | 4075.89 | 4076.04 | 4074.75 | 0.15 | 0.00 | -0.15 | |
| 670945 | 4074.34 | 4074.84 | 4075.46 | 4074.42 | 0.62 | 0.00 | -0.62 | |
| 320551 | 4075.39 | 4075.89 | 4076.13 | 4074.92 | 0.24 | 0.00 | -0.24 | |
| 517383 | 4073.90 | 4074.40 | 4075.49 | 4074.42 | 1.08 | 0.02 | -1.07 | |
| 627759 | 4075.38 | 4075.88 | 4076.11 | 4074.96 | 0.24 | 0.00 | -0.24 | |
| 504614 | 4073.63 | 4074.13 | 4075.49 | 4074.42 | 1.36 | 0.30 | -1.06 | |
| 73411 | 4201.31 | 4201.81 | 4201.87 | 4201.87 | 0.06 | 0.06 | 0.00 | |
| 670941 | 4073.87 | 4074.37 | 4075.48 | 4074.42 | 1.11 | 0.05 | -1.06 | |
| 282424 | 4074.73 | 4075.23 | 4075.48 | 0.00 | 0.25 | 0.00 | -0.25 | |
| 563429 | 4074.57 | 4075.07 | 4075.49 | 4074.42 | 0.41 | 0.00 | -0.41 | |
| 163408 | 4074.62 | 4075.12 | 4075.49 | 0.00 | 0.37 | 0.00 | -0.37 | |
| 542632 | 4074.70 | 4075.20 | 4075.49 | 4074.42 | 0.29 | 0.00 | -0.29 | |
| 282420 | 4074.53 | 4075.03 | 4075.49 | 4074.42 | 0.46 | 0.00 | -0.46 | |
| 448728 | 4074.49 | 4074.99 | 4075.49 | 4074.42 | 0.49 | 0.00 | -0.49 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 529943 | 4074.69 | 4075.19 | 4075.49 | 4074.42 | 0.30 | 0.00 | -0.30 |
| | 162648 | 4075.93 | 4076.43 | 4076.48 | 4075.44 | 0.06 | 0.00 | -0.06 |
| | 627791 | 4074.38 | 4074.88 | 4075.49 | 4074.42 | 0.60 | 0.00 | -0.60 |
| | 517384 | 4074.66 | 4075.16 | 4075.49 | 4074.42 | 0.32 | 0.00 | -0.32 |
| | 529906 | 4075.50 | 4076.00 | 4076.18 | 4075.04 | 0.19 | 0.00 | -0.19 |
| | 201657 | 4074.63 | 4075.13 | 4075.49 | 4074.42 | 0.36 | 0.00 | -0.36 |
| | 589080 | 4074.89 | 4075.39 | 4075.49 | 4074.38 | 0.10 | 0.00 | -0.10 |
| | 397486 | 4074.82 | 4075.32 | 4075.49 | 0.00 | 0.16 | 0.00 | -0.16 |
| | 27746 | 4075.42 | 4075.92 | 4076.09 | 0.00 | 0.17 | 0.00 | -0.17 |
| | 320579 | 4074.87 | 4075.37 | 4075.49 | 4074.35 | 0.12 | 0.00 | -0.12 |
| | 346385 | 4074.65 | 4075.15 | 4075.49 | 0.00 | 0.34 | 0.00 | -0.34 |
| | 163275 | 4076.50 | 4077.00 | 4077.30 | 0.00 | 0.29 | 0.00 | -0.29 |
| | 449060 | 4075.33 | 4075.83 | 4076.30 | 4075.13 | 0.47 | 0.00 | -0.47 |
| | 201069 | 4076.69 | 4077.19 | 4077.34 | 4076.46 | 0.16 | 0.00 | -0.16 |
| | 44756 | 4076.26 | 4076.76 | 4077.08 | 4076.30 | 0.32 | 0.00 | -0.32 |
| | 517343 | 4075.21 | 4075.71 | 4077.37 | 4076.46 | 1.66 | 0.76 | -0.91 |
| | 4866045 | 4207.55 | 4208.05 | 4208.26 | 4208.10 | 0.21 | 0.05 | -0.16 |
| | 474499 | 4210.98 | 4211.48 | 4211.58 | 4211.51 | 0.10 | 0.03 | -0.06 |
| | 4866046 | 4210.60 | 4211.10 | 4211.43 | 4211.34 | 0.33 | 0.25 | -0.08 |
| | 120237 | 4083.41 | 4083.91 | 4083.99 | 4082.50 | 0.09 | 0.00 | -0.09 |
| | 627758 | 4076.71 | 4077.21 | 4077.45 | 4076.45 | 0.24 | 0.00 | -0.24 |
| | 448670 | 4083.26 | 4083.76 | 4084.02 | 4082.59 | 0.26 | 0.00 | -0.26 |
| | 4866047 | 4219.33 | 4219.83 | 4220.38 | 4220.37 | 0.55 | 0.54 | -0.01 |
| | 27234 | 4216.58 | 4217.08 | 4217.71 | 4217.62 | 0.63 | 0.55 | -0.09 |
| | 589059 | 4076.69 | 4077.19 | 4077.26 | 4076.43 | 0.07 | 0.00 | -0.07 |
| | 474397 | 4076.89 | 4077.39 | 4077.89 | 4077.03 | 0.51 | 0.00 | -0.51 |
| | 423273 | 4076.14 | 4076.64 | 4077.70 | 4076.72 | 1.06 | 0.09 | -0.98 |
| | 320513 | 4084.67 | 4085.17 | 4085.41 | 4083.86 | 0.24 | 0.00 | -0.24 |
| | 120861 | 4076.45 | 4076.95 | 4077.15 | 4076.38 | 0.19 | 0.00 | -0.19 |
| | 654287 | 4085.40 | 4085.90 | 4086.06 | 4084.97 | 0.16 | 0.00 | -0.16 |
| | 491740 | 4086.46 | 4086.96 | 4087.00 | 4085.74 | 0.04 | 0.00 | -0.04 |
| | 397369 | 4338.77 | 4339.27 | 4340.95 | 4340.88 | 1.68 | 1.61 | -0.08 |
| | 653394 | 4101.25 | 4101.75 | 4102.26 | 4101.99 | 0.51 | 0.25 | -0.26 |
| | 201211 | 4047.14 | 4047.64 | 4048.55 | 0.00 | 0.90 | 0.00 | -0.90 |
| | 504532 | 4099.42 | 4099.92 | 4100.13 | 4099.54 | 0.21 | 0.00 | -0.21 |
| | 202763 | 4039.13 | 4039.63 | 4041.52 | 4041.07 | 1.89 | 1.44 | -0.45 |
| | 163108 | 4035.85 | 4036.35 | 4038.55 | 0.00 | 2.20 | 0.00 | -2.20 |
| | 202763 | 4039.13 | 4039.63 | 4041.52 | 4041.07 | 1.89 | 1.44 | -0.45 |
| | 671140 | 4039.10 | 4039.60 | 4041.11 | 4040.29 | 1.51 | 0.69 | -0.82 |
| | 44922 | 4042.40 | 4042.90 | 4043.45 | 0.00 | 0.55 | 0.00 | -0.55 |
| | 654838 | 4043.68 | 4044.18 | 4046.00 | 0.00 | 1.82 | 0.00 | -1.82 |
| | 654953 | 4038.88 | 4039.38 | 4041.11 | 4040.22 | 1.73 | 0.84 | -0.89 |
| | 73510 | 4043.81 | 4044.31 | 4046.00 | 0.00 | 1.69 | 0.00 | -1.69 |
| | 44972 | 4033.56 | 4034.06 | 4034.42 | 0.00 | 0.36 | 0.00 | -0.36 |
| | 202001 | 4029.19 | 4029.69 | 4031.20 | 0.00 | 1.51 | 0.00 | -1.51 |
| | 74682 | 4036.58 | 4037.08 | 4038.35 | 0.00 | 1.27 | 0.00 | -1.27 |
| | 239532 | 4042.20 | 4042.70 | 4042.96 | 0.00 | 0.26 | 0.00 | -0.26 |
| | 121478 | 4048.64 | 4049.14 | 4050.15 | 0.00 | 1.02 | 0.00 | -1.02 |
| | 449640 | 4039.11 | 4039.61 | 4041.11 | 0.00 | 1.50 | 0.00 | -1.50 |
| | 475168 | 4043.90 | 4044.40 | 4045.12 | 0.00 | 0.72 | 0.00 | -0.72 |
| 241035 | 4048.46 | 4048.96 | 4049.16 | 0.00 | 0.20 | 0.00 | -0.20 | |
| 28144 | 4042.90 | 4043.40 | 4045.07 | 4044.45 | 1.66 | 1.04 | -0.62 | |
| 74381 | 4039.15 | 4039.65 | 4040.96 | 0.00 | 1.31 | 0.00 | -1.31 | |
| 449650 | 4039.40 | 4039.90 | 4041.14 | 0.00 | 1.24 | 0.00 | -1.24 | |
| 632240 | 4039.30 | 4039.80 | 4041.14 | 0.00 | 1.34 | 0.00 | -1.34 | |
| 397644 | 4043.23 | 4043.73 | 4045.10 | 4044.42 | 1.37 | 0.69 | -0.68 | |
| 162911 | 4048.96 | 4049.46 | 4049.74 | 0.00 | 0.27 | 0.00 | -0.27 | |
| 119672 | 4043.17 | 4043.67 | 4045.16 | 4044.46 | 1.49 | 0.79 | -0.70 | |
| 398370 | 4028.16 | 4028.66 | 4029.61 | 0.00 | 0.95 | 0.00 | -0.95 | |
| 321655 | 4043.98 | 4044.48 | 4045.10 | 4044.42 | 0.62 | 0.00 | -0.62 | |
| 261567 | 4037.43 | 4037.93 | 4038.95 | 0.00 | 1.02 | 0.00 | -1.02 | |
| 632250 | 4035.05 | 4035.55 | 4036.42 | 0.00 | 0.87 | 0.00 | -0.87 | |
| 448874 | 4043.00 | 4043.50 | 4045.13 | 0.00 | 1.62 | 0.00 | -1.62 | |
| 474581 | 4046.03 | 4046.53 | 4047.25 | 4046.67 | 0.71 | 0.14 | -0.57 | |
| 606929 | 4045.26 | 4045.76 | 4045.95 | 4045.47 | 0.19 | 0.00 | -0.19 | |
| 654969 | 4038.88 | 4039.38 | 4040.58 | 0.00 | 1.21 | 0.00 | -1.21 | |
| 606872 | 4047.18 | 4047.68 | 4050.16 | 4048.60 | 2.48 | 0.92 | -1.55 | |
| 321875 | 4038.86 | 4039.36 | 4039.66 | 0.00 | 0.30 | 0.00 | -0.30 | |
| 239484 | 4045.85 | 4046.35 | 4047.30 | 0.00 | 0.95 | 0.00 | -0.95 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 424030 | 4043.38 | 4043.88 | 4045.21 | 0.00 | 1.33 | 0.00 | -1.33 |
| | 74526 | 4040.19 | 4040.69 | 4041.63 | 0.00 | 0.94 | 0.00 | -0.94 |
| | 201292 | 4044.40 | 4044.90 | 4045.23 | 0.00 | 0.33 | 0.00 | -0.33 |
| | 163031 | 4047.92 | 4048.42 | 4050.16 | 0.00 | 1.73 | 0.00 | -1.73 |
| | 2086 | 4039.44 | 4039.94 | 4041.71 | 0.00 | 1.78 | 0.00 | -1.78 |
| | 27491 | 4042.14 | 4042.64 | 4042.93 | 0.00 | 0.29 | 0.00 | -0.29 |
| | 671100 | 4043.67 | 4044.17 | 4045.45 | 4044.85 | 1.28 | 0.69 | -0.59 |
| | 632182 | 4046.33 | 4046.83 | 4047.65 | 0.00 | 0.82 | 0.00 | -0.82 |
| | 74322 | 4047.96 | 4048.46 | 4050.15 | 0.00 | 1.70 | 0.00 | -1.70 |
| | 121483 | 4047.88 | 4048.38 | 4050.16 | 0.00 | 1.78 | 0.00 | -1.78 |
| | 121099 | 4043.93 | 4044.43 | 4045.32 | 0.00 | 0.89 | 0.00 | -0.89 |
| | 74332 | 4043.94 | 4044.44 | 4045.32 | 0.00 | 0.88 | 0.00 | -0.88 |
| | 654835 | 4047.77 | 4048.27 | 4048.93 | 0.00 | 0.66 | 0.00 | -0.66 |
| | 74517 | 4040.99 | 4041.49 | 4041.88 | 0.00 | 0.39 | 0.00 | -0.39 |
| | 589226 | 4044.04 | 4044.54 | 4045.32 | 0.00 | 0.78 | 0.00 | -0.78 |
| | 320623 | 4073.98 | 4074.48 | 4074.52 | 4073.93 | 0.05 | 0.00 | -0.05 |
| | 654628 | 4073.32 | 4073.82 | 4073.86 | 4073.20 | 0.04 | 0.00 | -0.04 |
| | 1955 | 4072.10 | 4072.60 | 4072.82 | 0.00 | 0.21 | 0.00 | -0.21 |
| | 670978 | 4074.01 | 4074.51 | 4074.87 | 4074.07 | 0.36 | 0.00 | -0.36 |
| | 320622 | 4072.77 | 4073.27 | 4074.79 | 4074.06 | 1.52 | 0.78 | -0.73 |
| | 299756 | 4044.74 | 4045.24 | 4045.35 | 0.00 | 0.11 | 0.00 | -0.11 |
| | 44816 | 4072.25 | 4072.75 | 4072.77 | 0.00 | 0.03 | 0.00 | -0.03 |
| | 632185 | 4046.63 | 4047.13 | 4047.66 | 0.00 | 0.53 | 0.00 | -0.53 |
| | 74118 | 4073.37 | 4073.87 | 4074.31 | 0.00 | 0.44 | 0.00 | -0.44 |
| | 162948 | 4073.44 | 4073.94 | 4073.96 | 4073.45 | 0.01 | 0.00 | -0.01 |
| | 346542 | 4069.55 | 4070.05 | 4070.66 | 0.00 | 0.61 | 0.00 | -0.61 |
| | 563608 | 4044.73 | 4045.23 | 4045.64 | 0.00 | 0.41 | 0.00 | -0.41 |
| | 504741 | 4047.19 | 4047.69 | 4049.19 | 0.00 | 1.49 | 0.00 | -1.49 |
| | 397546 | 4069.41 | 4069.91 | 4070.65 | 0.00 | 0.74 | 0.00 | -0.74 |
| | 346521 | 4047.42 | 4047.92 | 4049.24 | 0.00 | 1.32 | 0.00 | -1.32 |
| | 121520 | 4047.21 | 4047.71 | 4048.09 | 0.00 | 0.38 | 0.00 | -0.38 |
| | 163051 | 4047.85 | 4048.35 | 4049.48 | 4049.03 | 1.13 | 0.68 | -0.45 |
| | 162952 | 4069.89 | 4070.39 | 4070.65 | 4069.72 | 0.27 | 0.00 | -0.27 |
| | 589197 | 4047.11 | 4047.61 | 4049.48 | 4049.03 | 1.87 | 1.42 | -0.45 |
| | 671084 | 4047.64 | 4048.14 | 4049.13 | 4048.47 | 0.99 | 0.33 | -0.66 |
| | 121085 | 4047.63 | 4048.13 | 4049.31 | 0.00 | 1.19 | 0.00 | -1.19 |
| | 475268 | 4042.31 | 4042.81 | 4043.04 | 0.00 | 0.23 | 0.00 | -0.23 |
| | 491864 | 4069.97 | 4070.47 | 4070.65 | 4069.72 | 0.18 | 0.00 | -0.18 |
| | 449550 | 4044.58 | 4045.08 | 4046.25 | 0.00 | 1.17 | 0.00 | -1.17 |
| | 397539 | 4072.17 | 4072.67 | 4072.81 | 4072.16 | 0.13 | 0.00 | -0.13 |
| | 240118 | 4048.11 | 4048.61 | 4049.21 | 0.00 | 0.60 | 0.00 | -0.60 |
| | 423350 | 4071.63 | 4072.13 | 4072.24 | 0.00 | 0.11 | 0.00 | -0.11 |
| | 589131 | 4070.01 | 4070.51 | 4070.66 | 4069.72 | 0.15 | 0.00 | -0.15 |
| | 346141 | 4112.70 | 4113.20 | 4113.74 | 4113.01 | 0.54 | 0.00 | -0.54 |
| | 121285 | 4070.23 | 4070.73 | 4070.80 | 4069.72 | 0.07 | 0.00 | -0.07 |
| | 163950 | 4048.34 | 4048.84 | 4049.58 | 4049.13 | 0.73 | 0.29 | -0.45 |
| | 653518 | 4071.69 | 4072.19 | 4072.95 | 4072.37 | 0.76 | 0.18 | -0.58 |
| | 542671 | 4071.63 | 4072.13 | 4072.29 | 4071.46 | 0.16 | 0.00 | -0.16 |
| | 474493 | 4071.69 | 4072.19 | 4072.51 | 4071.62 | 0.32 | 0.00 | -0.32 |
| | 321509 | 4060.60 | 4061.10 | 4061.14 | 0.00 | 0.03 | 0.00 | -0.03 |
| 2117 | 4035.63 | 4036.13 | 4036.21 | 0.00 | 0.08 | 0.00 | -0.08 | |
| 606906 | 4048.22 | 4048.72 | 4049.86 | 4049.52 | 1.14 | 0.80 | -0.34 | |
| 119553 | 4073.43 | 4073.93 | 4074.29 | 4073.64 | 0.36 | 0.00 | -0.36 | |
| 653523 | 4070.98 | 4071.48 | 4072.23 | 4071.42 | 0.74 | 0.00 | -0.74 | |
| 201397 | 4112.06 | 4112.56 | 4113.22 | 4112.50 | 0.67 | 0.00 | -0.67 | |
| 201987 | 4041.51 | 4042.01 | 4042.87 | 4041.90 | 0.86 | 0.00 | -0.86 | |
| 240140 | 4043.63 | 4044.13 | 4046.59 | 0.00 | 2.46 | 0.00 | -2.46 | |
| 397649 | 4043.70 | 4044.20 | 4046.56 | 4045.99 | 2.37 | 1.79 | -0.57 | |
| 589119 | 4070.79 | 4071.29 | 4072.23 | 4071.42 | 0.94 | 0.13 | -0.81 | |
| 162578 | 4111.18 | 4111.68 | 4112.82 | 4112.00 | 1.14 | 0.32 | -0.81 | |
| 299557 | 4112.94 | 4113.44 | 4114.67 | 4113.83 | 1.23 | 0.39 | -0.84 | |
| 239241 | 4114.60 | 4115.10 | 4116.22 | 4115.37 | 1.13 | 0.27 | -0.85 | |
| 397622 | 4047.06 | 4047.56 | 4049.48 | 4048.95 | 1.93 | 1.40 | -0.53 | |
| 448644 | 4112.38 | 4112.88 | 4114.10 | 4113.29 | 1.22 | 0.41 | -0.81 | |
| 240815 | 4071.56 | 4072.06 | 4072.74 | 4072.24 | 0.67 | 0.17 | -0.50 | |
| 202758 | 4043.43 | 4043.93 | 4046.48 | 4045.87 | 2.55 | 1.94 | -0.61 | |
| 654202 | 4111.75 | 4112.25 | 4113.11 | 4112.22 | 0.86 | 0.00 | -0.86 | |
| 627919 | 4048.79 | 4049.29 | 4050.75 | 0.00 | 1.46 | 0.00 | -1.46 | |
| 671065 | 4047.52 | 4048.02 | 4052.08 | 0.00 | 4.06 | 0.00 | -4.06 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 474351 | 4113.89 | 4114.39 | 4115.01 | 4114.24 | 0.62 | 0.00 | -0.62 |
| | 119645 | 4049.93 | 4050.43 | 4052.31 | 4051.55 | 1.89 | 1.12 | -0.76 |
| | 282389 | 4049.26 | 4049.76 | 4052.36 | 4051.63 | 2.60 | 1.87 | -0.73 |
| | 201161 | 4114.89 | 4115.39 | 4116.88 | 4115.98 | 1.49 | 0.59 | -0.90 |
| | 593001 | 4115.93 | 4116.43 | 4117.40 | 4116.67 | 0.97 | 0.23 | -0.74 |
| | 2448 | 4059.86 | 4060.36 | 4060.38 | 0.00 | 0.02 | 0.00 | -0.02 |
| | 517497 | 4050.44 | 4050.94 | 4052.92 | 0.00 | 1.98 | 0.00 | -1.98 |
| | 568068 | 4119.93 | 4120.43 | 4121.37 | 4120.53 | 0.94 | 0.10 | -0.84 |
| | 474518 | 4057.96 | 4058.46 | 4060.12 | 4059.57 | 1.65 | 1.11 | -0.55 |
| | 119631 | 4051.21 | 4051.71 | 4053.83 | 4053.20 | 2.12 | 1.49 | -0.63 |
| | 2013 | 4052.49 | 4052.99 | 4053.86 | 0.00 | 0.88 | 0.00 | -0.88 |
| | 530069 | 4053.31 | 4053.81 | 4053.87 | 0.00 | 0.06 | 0.00 | -0.06 |
| | 530064 | 4052.10 | 4052.60 | 4053.89 | 0.00 | 1.28 | 0.00 | -1.28 |
| | 28029 | 4053.31 | 4053.81 | 4055.42 | 4054.85 | 1.61 | 1.03 | -0.58 |
| | 163059 | 4054.41 | 4054.91 | 4055.61 | 0.00 | 0.70 | 0.00 | -0.70 |
| | 373933 | 4054.00 | 4054.50 | 4056.19 | 4055.69 | 1.70 | 1.19 | -0.50 |
| | 372056 | 4054.81 | 4055.31 | 4056.18 | 0.00 | 0.87 | 0.00 | -0.87 |
| | 239865 | 4057.14 | 4057.64 | 4058.09 | 4058.09 | 0.44 | 0.44 | 0.00 |
| | 27894 | 4057.27 | 4057.77 | 4058.14 | 4058.14 | 0.37 | 0.37 | 0.00 |
| | 282541 | 4054.46 | 4054.96 | 4055.52 | 4055.45 | 0.56 | 0.49 | -0.07 |
| | 27387 | 4055.21 | 4055.71 | 4056.15 | 4056.15 | 0.43 | 0.43 | 0.00 |
| | 475029 | 4054.28 | 4054.78 | 4055.58 | 4055.45 | 0.79 | 0.67 | -0.13 |
| | 163018 | 4053.99 | 4054.49 | 4055.40 | 0.00 | 0.91 | 0.00 | -0.91 |
| | 346561 | 4053.07 | 4053.57 | 4055.40 | 4054.88 | 1.83 | 1.31 | -0.52 |
| | 449280 | 4062.11 | 4062.61 | 4063.34 | 4063.34 | 0.73 | 0.73 | 0.00 |
| | 589125 | 4062.58 | 4063.08 | 4063.32 | 4063.32 | 0.24 | 0.24 | 0.00 |
| | 653524 | 4062.15 | 4062.65 | 4063.40 | 4063.40 | 0.75 | 0.75 | 0.00 |
| | 504659 | 4058.27 | 4058.77 | 4059.20 | 4059.20 | 0.42 | 0.42 | 0.00 |
| | 448796 | 4057.33 | 4057.83 | 4058.83 | 4058.83 | 1.00 | 1.00 | 0.00 |
| | 397557 | 4057.65 | 4058.15 | 4059.73 | 4059.73 | 1.57 | 1.57 | 0.00 |
| | 201550 | 4061.43 | 4061.93 | 4062.73 | 4062.73 | 0.81 | 0.81 | 0.00 |
| | 121293 | 4057.19 | 4057.69 | 4059.33 | 4059.33 | 1.64 | 1.64 | 0.00 |
| | 282533 | 4056.50 | 4057.00 | 4058.39 | 4058.39 | 1.39 | 1.39 | 0.00 |
| | 299671 | 4059.57 | 4060.07 | 4061.33 | 4061.33 | 1.26 | 1.26 | 0.00 |
| | 372003 | 4061.72 | 4062.22 | 4062.25 | 4062.25 | 0.04 | 0.04 | 0.00 |
| | 201541 | 4062.75 | 4063.25 | 4064.09 | 4064.09 | 0.83 | 0.83 | 0.00 |
| | 162820 | 4054.59 | 4055.09 | 4056.55 | 4056.55 | 1.47 | 1.47 | 0.00 |
| | 372023 | 4050.17 | 4050.67 | 4054.49 | 4054.48 | 3.82 | 3.81 | -0.01 |
| | 121019 | 4059.79 | 4060.29 | 4060.97 | 4060.97 | 0.68 | 0.68 | 0.00 |
| | 423382 | 4049.77 | 4050.27 | 4054.49 | 4054.48 | 4.22 | 4.21 | -0.01 |
| | 397532 | 4069.34 | 4069.84 | 4070.14 | 4070.14 | 0.30 | 0.30 | 0.00 |
| | 299672 | 4059.17 | 4059.67 | 4060.03 | 4060.03 | 0.36 | 0.36 | 0.00 |
| | 653526 | 4060.04 | 4060.54 | 4061.17 | 4061.17 | 0.63 | 0.63 | 0.00 |
| | 120341 | 4136.35 | 4136.85 | 4136.88 | 4136.88 | 0.03 | 0.03 | 0.00 |
| | 239873 | 4052.56 | 4053.06 | 4054.49 | 4054.49 | 1.43 | 1.43 | 0.00 |
| | 239870 | 4053.21 | 4053.71 | 4055.17 | 4055.17 | 1.45 | 1.45 | 0.00 |
| | 654280 | 4136.66 | 4137.16 | 4137.30 | 4137.30 | 0.14 | 0.14 | 0.00 |
| | 504664 | 4052.60 | 4053.10 | 4054.51 | 4054.51 | 1.41 | 1.41 | 0.00 |
| | 73270 | 4111.18 | 4111.68 | 4112.09 | 4112.09 | 0.41 | 0.41 | 0.00 |
| | 593246 | 4045.55 | 4046.05 | 4054.49 | 4054.48 | 8.44 | 8.43 | -0.01 |
| 448869 | 4053.28 | 4053.78 | 4054.49 | 4054.48 | 0.71 | 0.70 | -0.01 | |
| 240456 | 4098.94 | 4099.44 | 4099.73 | 4099.73 | 0.29 | 0.29 | 0.00 | |
| 201280 | 4053.92 | 4054.42 | 4054.49 | 4054.48 | 0.07 | 0.06 | -0.01 | |
| 239249 | 4138.47 | 4138.97 | 4139.15 | 4139.15 | 0.18 | 0.18 | 0.00 | |
| 491727 | 4147.16 | 4147.66 | 4148.09 | 4148.09 | 0.43 | 0.43 | 0.00 | |
| 670865 | 4145.35 | 4145.85 | 4146.34 | 4146.34 | 0.49 | 0.49 | 0.00 | |
| 474400 | 4097.71 | 4098.21 | 4098.31 | 4098.31 | 0.10 | 0.10 | 0.00 | |
| 474575 | 4047.18 | 4047.68 | 4054.49 | 4054.48 | 6.81 | 6.80 | -0.01 | |
| 654843 | 4046.74 | 4047.24 | 4054.49 | 4054.48 | 7.25 | 7.24 | -0.01 | |
| 449397 | 4048.12 | 4048.62 | 4054.49 | 4054.48 | 5.87 | 5.86 | -0.01 | |
| 631876 | 4137.54 | 4138.04 | 4138.17 | 4138.17 | 0.12 | 0.12 | 0.00 | |
| 346658 | 4046.35 | 4046.85 | 4054.49 | 4054.48 | 7.64 | 7.62 | -0.01 | |
| 653399 | 4141.84 | 4142.34 | 4143.30 | 4143.30 | 0.96 | 0.96 | 0.00 | |
| 28136 | 4049.82 | 4050.32 | 4054.49 | 4054.48 | 4.17 | 4.16 | -0.01 | |
| 44900 | 4053.13 | 4053.63 | 4054.49 | 4054.48 | 0.86 | 0.85 | -0.01 | |
| 606729 | 4135.75 | 4136.25 | 4136.29 | 4136.29 | 0.05 | 0.05 | 0.00 | |
| 1835 | 4137.37 | 4137.87 | 4138.29 | 4138.29 | 0.42 | 0.42 | 0.00 | |
| 28138 | 4052.42 | 4052.92 | 4054.49 | 4054.48 | 1.57 | 1.56 | -0.01 | |
| 589113 | 4057.25 | 4057.75 | 4058.58 | 4058.58 | 0.83 | 0.83 | 0.00 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 2460 | 4051.76 | 4052.26 | 4054.49 | 4054.48 | 2.23 | 2.22 | -0.01 |
| | 606726 | 4141.11 | 4141.61 | 4141.61 | 4141.61 | 0.00 | 0.00 | 0.00 |
| | 282700 | 4053.45 | 4053.95 | 4054.49 | 4054.48 | 0.54 | 0.53 | -0.01 |
| | 201816 | 4066.35 | 4066.85 | 4067.59 | 4067.59 | 0.74 | 0.74 | 0.00 |
| | 448848 | 4043.93 | 4044.43 | 4054.49 | 4054.48 | 10.06 | 10.05 | -0.01 |
| | 474584 | 4044.23 | 4044.73 | 4054.49 | 4054.48 | 9.76 | 9.75 | -0.01 |
| | 74172 | 4042.51 | 4043.01 | 4054.49 | 4054.48 | 11.48 | 11.47 | -0.01 |
| | 121075 | 4066.63 | 4067.13 | 4067.43 | 4067.43 | 0.29 | 0.29 | 0.00 |
| | 120845 | 4100.09 | 4100.59 | 4100.61 | 4100.61 | 0.03 | 0.03 | 0.00 |
| | 449523 | 4043.73 | 4044.23 | 4054.49 | 4054.48 | 10.26 | 10.25 | -0.01 |
| | 397643 | 4053.89 | 4054.39 | 4054.49 | 4054.48 | 0.10 | 0.09 | -0.01 |
| | 606858 | 4053.41 | 4053.91 | 4054.49 | 4054.48 | 0.58 | 0.57 | -0.01 |
| | 241212 | 4046.81 | 4047.31 | 4054.49 | 4054.48 | 7.18 | 7.17 | -0.01 |
| | 563465 | 4066.50 | 4067.00 | 4067.40 | 4067.40 | 0.40 | 0.40 | 0.00 |
| | 121473 | 4053.03 | 4053.53 | 4054.49 | 4054.48 | 0.96 | 0.95 | -0.01 |
| | 163021 | 4052.65 | 4053.15 | 4054.49 | 4054.48 | 1.34 | 1.33 | -0.01 |
| | 448785 | 4053.28 | 4053.78 | 4055.14 | 4055.14 | 1.36 | 1.36 | 0.00 |
| | 654647 | 4052.16 | 4052.66 | 4055.06 | 4055.06 | 2.40 | 2.40 | 0.00 |
| | 239383 | 4061.61 | 4062.11 | 4062.14 | 4062.14 | 0.03 | 0.03 | 0.00 |
| | 27877 | 4063.33 | 4063.83 | 4064.27 | 4064.27 | 0.44 | 0.44 | 0.00 |
| | 449527 | 4042.00 | 4042.50 | 4054.49 | 4054.48 | 11.99 | 11.98 | -0.01 |
| | 397536 | 4057.85 | 4058.35 | 4059.23 | 4059.23 | 0.88 | 0.88 | 0.00 |
| | 589128 | 4053.77 | 4054.27 | 4055.79 | 4055.79 | 1.52 | 1.52 | 0.00 |
| | 27378 | 4052.65 | 4053.15 | 4055.09 | 4055.09 | 1.94 | 1.94 | 0.00 |
| | 201149 | 4053.03 | 4053.53 | 4055.44 | 4055.44 | 1.91 | 1.91 | 0.00 |
| | 282510 | 4059.30 | 4059.80 | 4060.18 | 4060.18 | 0.38 | 0.38 | 0.00 |
| | 201150 | 4053.56 | 4054.06 | 4055.29 | 4055.29 | 1.23 | 1.23 | 0.00 |
| | 163958 | 4040.46 | 4040.96 | 4054.49 | 4054.48 | 13.53 | 13.52 | -0.01 |
| | 529991 | 4060.05 | 4060.55 | 4060.80 | 4060.78 | 0.25 | 0.23 | -0.02 |
| | 568279 | 4044.44 | 4044.94 | 4054.49 | 4054.48 | 9.55 | 9.54 | -0.01 |
| | 121008 | 4059.41 | 4059.91 | 4061.13 | 4061.13 | 1.22 | 1.22 | 0.00 |
| | 2051 | 4044.93 | 4045.43 | 4054.49 | 4054.48 | 9.06 | 9.05 | -0.01 |
| | 517516 | 4042.15 | 4042.65 | 4054.49 | 4054.48 | 11.84 | 11.83 | -0.01 |
| | 593285 | 4041.82 | 4042.32 | 4054.49 | 4054.48 | 12.17 | 12.16 | -0.01 |
| | 27883 | 4060.17 | 4060.67 | 4061.14 | 4061.14 | 0.47 | 0.47 | 0.00 |
| | 27884 | 4059.86 | 4060.36 | 4061.20 | 4061.20 | 0.84 | 0.84 | 0.00 |
| | 121020 | 4055.69 | 4056.19 | 4056.70 | 4056.70 | 0.51 | 0.51 | 0.00 |
| | 397549 | 4055.00 | 4055.50 | 4055.93 | 4055.93 | 0.43 | 0.43 | 0.00 |
| | 73441 | 4053.25 | 4053.75 | 4055.11 | 4055.11 | 1.36 | 1.36 | 0.00 |
| | 299669 | 4055.66 | 4056.16 | 4056.47 | 4056.47 | 0.31 | 0.31 | 0.00 |
| | 449285 | 4055.13 | 4055.63 | 4056.08 | 4056.08 | 0.45 | 0.45 | 0.00 |
| | 2437 | 4055.71 | 4056.21 | 4056.61 | 4056.61 | 0.40 | 0.40 | 0.00 |
| | 491849 | 4068.42 | 4068.92 | 4068.99 | 4068.99 | 0.06 | 0.06 | 0.00 |
| | 121023 | 4054.11 | 4054.61 | 4056.10 | 4056.10 | 1.48 | 1.48 | 0.00 |
| | 671000 | 4055.13 | 4055.63 | 4056.47 | 4056.47 | 0.85 | 0.85 | 0.00 |
| | 2345 | 4068.50 | 4069.00 | 4069.06 | 4069.06 | 0.06 | 0.06 | 0.00 |
| | 321499 | 4052.81 | 4053.31 | 4055.12 | 4055.12 | 1.81 | 1.81 | 0.00 |
| | 321428 | 4054.52 | 4055.02 | 4056.25 | 4056.25 | 1.23 | 1.23 | 0.00 |
| | 423360 | 4052.75 | 4053.25 | 4055.12 | 4055.12 | 1.87 | 1.87 | 0.00 |
| | 2440 | 4054.18 | 4054.68 | 4056.02 | 4056.02 | 1.34 | 1.34 | 0.00 |
| 27892 | 4054.11 | 4054.61 | 4056.23 | 4056.23 | 1.62 | 1.62 | 0.00 | |
| 504655 | 4055.24 | 4055.74 | 4056.40 | 4056.40 | 0.66 | 0.66 | 0.00 | |
| 568207 | 4054.72 | 4055.22 | 4056.09 | 4056.09 | 0.87 | 0.87 | 0.00 | |
| 321406 | 4067.80 | 4068.30 | 4068.74 | 4068.74 | 0.44 | 0.44 | 0.00 | |
| 27893 | 4054.11 | 4054.61 | 4055.98 | 4055.98 | 1.37 | 1.37 | 0.00 | |
| 654734 | 4052.51 | 4053.01 | 4054.49 | 4054.48 | 1.48 | 1.47 | -0.01 | |
| 606828 | 4064.20 | 4064.70 | 4064.72 | 4064.72 | 0.02 | 0.02 | 0.00 | |
| 120704 | 4054.00 | 4054.50 | 4056.31 | 4056.31 | 1.80 | 1.80 | 0.00 | |
| 398057 | 4046.80 | 4047.30 | 4054.49 | 4054.48 | 7.19 | 7.17 | -0.01 | |
| 654642 | 4054.26 | 4054.76 | 4055.85 | 4055.85 | 1.09 | 1.09 | 0.00 | |
| 201561 | 4051.82 | 4052.32 | 4055.13 | 4055.13 | 2.81 | 2.81 | 0.00 | |
| 423356 | 4054.57 | 4055.07 | 4055.77 | 4055.77 | 0.70 | 0.70 | 0.00 | |
| 282395 | 4049.13 | 4049.63 | 4054.49 | 4054.48 | 4.86 | 4.85 | -0.01 | |
| 27898 | 4051.98 | 4052.48 | 4055.13 | 4055.13 | 2.65 | 2.65 | 0.00 | |
| 1960 | 4054.78 | 4055.28 | 4055.57 | 4055.57 | 0.29 | 0.29 | 0.00 | |
| 119564 | 4054.09 | 4054.59 | 4055.98 | 4055.98 | 1.39 | 1.39 | 0.00 | |
| 261448 | 4054.52 | 4055.02 | 4055.20 | 4055.20 | 0.18 | 0.18 | 0.00 | |
| 164132 | 4053.12 | 4053.62 | 4054.49 | 4054.48 | 0.87 | 0.86 | -0.01 | |
| 627928 | 4051.86 | 4052.36 | 4054.49 | 4054.48 | 2.13 | 2.12 | -0.01 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 261532 | 4049.92 | 4050.42 | 4054.49 | 4054.48 | 4.07 | 4.06 | -0.01 |
| | 163725 | 4052.10 | 4052.60 | 4055.14 | 4055.14 | 2.54 | 2.54 | 0.00 |
| | 44904 | 4051.51 | 4052.01 | 4054.49 | 4054.48 | 2.48 | 2.47 | -0.01 |
| | 449385 | 4051.22 | 4051.72 | 4055.14 | 4055.14 | 3.41 | 3.41 | 0.00 |
| | 449547 | 4051.22 | 4051.72 | 4054.49 | 4054.48 | 2.77 | 2.76 | -0.01 |
| | 398258 | 4052.08 | 4052.58 | 4054.49 | 4054.48 | 1.91 | 1.90 | -0.01 |
| | 491880 | 4050.12 | 4050.62 | 4055.14 | 4055.14 | 4.51 | 4.51 | 0.00 |
| | 73572 | 4053.43 | 4053.93 | 4054.49 | 4054.48 | 0.56 | 0.55 | -0.01 |
| | 563495 | 4052.66 | 4053.16 | 4055.14 | 4055.14 | 1.98 | 1.98 | 0.00 |
| | 282719 | 4051.64 | 4052.14 | 4054.49 | 4054.48 | 2.35 | 2.33 | -0.01 |
| | 299748 | 4053.24 | 4053.74 | 4054.49 | 4054.48 | 0.75 | 0.74 | -0.01 |
| | 397640 | 4052.99 | 4053.49 | 4054.49 | 4054.48 | 1.00 | 0.99 | -0.01 |
| | 201179 | 4052.41 | 4052.91 | 4055.14 | 4055.14 | 2.23 | 2.23 | 0.00 |
| | 346410 | 4052.04 | 4052.54 | 4055.14 | 4055.14 | 2.59 | 2.59 | 0.00 |
| | 163022 | 4052.31 | 4052.81 | 4055.14 | 4055.14 | 2.32 | 2.32 | 0.00 |
| | 449389 | 4051.51 | 4052.01 | 4055.14 | 4055.14 | 3.13 | 3.13 | 0.00 |
| | 299693 | 4051.14 | 4051.64 | 4055.14 | 4055.14 | 3.50 | 3.50 | 0.00 |
| | 282307 | 4051.55 | 4052.05 | 4055.14 | 4055.14 | 3.10 | 3.10 | 0.00 |
| | 475033 | 4051.16 | 4051.66 | 4055.14 | 4055.14 | 3.49 | 3.49 | 0.00 |
| | 423370 | 4051.88 | 4052.38 | 4055.14 | 4055.14 | 2.76 | 2.76 | 0.00 |
| | 202091 | 4051.36 | 4051.86 | 4055.14 | 4055.14 | 3.28 | 3.28 | 0.00 |
| | 163733 | 4051.39 | 4051.89 | 4055.14 | 4055.14 | 3.25 | 3.25 | 0.00 |
| | 606839 | 4053.66 | 4054.16 | 4055.14 | 4055.14 | 0.98 | 0.98 | 0.00 |
| | 593207 | 4050.37 | 4050.87 | 4055.14 | 4055.14 | 4.28 | 4.28 | 0.00 |
| | 589145 | 4052.09 | 4052.59 | 4055.14 | 4055.14 | 2.55 | 2.55 | 0.00 |
| | 373845 | 4048.34 | 4048.84 | 4049.47 | 4049.24 | 0.64 | 0.40 | -0.24 |
| | 589102 | 4057.79 | 4058.29 | 4063.59 | 4056.50 | 5.30 | 0.00 | -5.30 |
| | 346321 | 4058.58 | 4059.08 | 4063.59 | 4057.53 | 4.51 | 0.00 | -4.51 |
| | 529980 | 4060.34 | 4060.84 | 4063.59 | 4059.41 | 2.75 | 0.00 | -2.75 |
| | 2570 | 4039.66 | 4040.16 | 4041.43 | 4040.61 | 1.27 | 0.46 | -0.82 |
| | 73999 | 4065.79 | 4066.29 | 4067.75 | 4067.10 | 1.45 | 0.80 | -0.65 |
| | 423431 | 4078.15 | 4078.65 | 4080.95 | 4079.99 | 2.30 | 1.34 | -0.96 |
| | 120858 | 4072.32 | 4072.82 | 4075.57 | 4074.43 | 2.75 | 1.61 | -1.14 |
| | 504523 | 4079.74 | 4080.24 | 4080.97 | 4080.28 | 0.73 | 0.03 | -0.70 |
| | 120132 | 4080.18 | 4080.68 | 4080.98 | 4080.50 | 0.29 | 0.00 | -0.29 |
| | 162839 | 4074.08 | 4074.58 | 4075.55 | 4074.43 | 0.97 | 0.00 | -0.97 |
| | 631879 | 4078.56 | 4079.06 | 4080.96 | 4079.98 | 1.90 | 0.93 | -0.97 |
| | 27238 | 4183.40 | 4183.90 | 4184.19 | 4184.15 | 0.29 | 0.25 | -0.04 |
| | 568242 | 4042.19 | 4042.69 | 4043.67 | 0.00 | 0.98 | 0.00 | -0.98 |
| | 239304 | 4075.58 | 4076.08 | 4077.34 | 4076.45 | 1.26 | 0.37 | -0.89 |
| 517299 | 4100.46 | 4100.96 | 4101.41 | 4100.80 | 0.45 | 0.00 | -0.45 | |
| 449393 | 4051.59 | 4052.09 | 4053.06 | 0.00 | 0.97 | 0.00 | -0.97 | |
| 475019 | 4069.96 | 4070.46 | 4070.73 | 0.00 | 0.27 | 0.00 | -0.27 | |
| 423432 | 4109.34 | 4109.84 | 4110.49 | 4109.62 | 0.65 | 0.00 | -0.65 | |
| 563544 | 4053.66 | 4054.16 | 4054.86 | 0.00 | 0.70 | 0.00 | -0.70 | |
| 530053 | 4054.27 | 4054.77 | 4055.28 | 0.00 | 0.51 | 0.00 | -0.51 | |
| 530016 | 4052.98 | 4053.48 | 4054.49 | 4054.48 | 1.01 | 1.00 | -0.01 | |
| 504521 | 4182.59 | 4183.09 | 4183.36 | 4183.29 | 0.27 | 0.21 | -0.06 | |
| 201158 | 4183.09 | 4183.59 | 4184.09 | 4184.09 | 0.50 | 0.50 | 0.00 | |
| 627854 | 4055.32 | 4055.82 | 4055.93 | 4055.93 | 0.11 | 0.11 | 0.00 | |
| 119567 | 4053.95 | 4054.45 | 4055.14 | 4055.14 | 0.68 | 0.68 | 0.00 | |
| 1% Annual Chance Commercial Buildings | 474559 | 4039.19 | 4039.69 | 4040.36 | 0.00 | 0.67 | 0.00 | -0.67 |
| | 241024 | 4040.72 | 4041.22 | 4042.31 | 4042.02 | 1.09 | 0.80 | -0.29 |
| | 201200 | 4040.91 | 4041.41 | 4042.34 | 0.00 | 0.93 | 0.00 | -0.93 |
| | 120892 | 4040.77 | 4041.27 | 4042.46 | 4042.16 | 1.18 | 0.89 | -0.29 |
| | 593238 | 4041.01 | 4041.51 | 4042.57 | 0.00 | 1.06 | 0.00 | -1.06 |
| | 606987 | 4027.57 | 4028.07 | 4028.26 | 0.00 | 0.19 | 0.00 | -0.19 |
| | 321620 | 4039.36 | 4039.86 | 4041.44 | 4040.61 | 1.57 | 0.75 | -0.82 |
| | 372053 | 4039.13 | 4039.63 | 4041.44 | 4040.61 | 1.81 | 0.98 | -0.82 |
| | 239460 | 4039.01 | 4039.51 | 4041.44 | 4040.61 | 1.93 | 1.10 | -0.82 |
| | 163933 | 4039.57 | 4040.07 | 4041.45 | 4040.64 | 1.39 | 0.58 | -0.81 |
| | 282470 | 4030.97 | 4031.47 | 4032.83 | 0.00 | 1.36 | 0.00 | -1.36 |
| | 121442 | 4031.35 | 4031.85 | 4033.31 | 0.00 | 1.46 | 0.00 | -1.46 |
| | 606941 | 4032.48 | 4032.98 | 4034.61 | 0.00 | 1.63 | 0.00 | -1.63 |
| | 239991 | 4040.16 | 4040.66 | 4041.88 | 4041.71 | 1.22 | 1.05 | -0.17 |
| | 671029 | 4042.54 | 4043.04 | 4044.29 | 0.00 | 1.25 | 0.00 | -1.25 |
| | 28140 | 4034.47 | 4034.97 | 4036.43 | 0.00 | 1.46 | 0.00 | -1.46 |
| | 320709 | 4039.07 | 4039.57 | 4041.15 | 4040.20 | 1.58 | 0.62 | -0.95 |
| | 593279 | 4038.49 | 4038.99 | 4041.15 | 4040.20 | 2.15 | 1.21 | -0.95 |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Commercial Buildings | 320707 | 4039.37 | 4039.87 | 4041.17 | 4040.20 | 1.31 | 0.34 | -0.97 |
| | 475040 | 4046.63 | 4047.13 | 4048.71 | 4048.27 | 1.59 | 1.15 | -0.44 |
| | 530078 | 4038.78 | 4039.28 | 4041.15 | 4040.20 | 1.87 | 0.92 | -0.96 |
| | 239996 | 4037.89 | 4038.39 | 4041.59 | 4040.70 | 3.20 | 2.31 | -0.89 |
| | 163955 | 4038.70 | 4039.20 | 4041.15 | 4040.20 | 1.95 | 1.00 | -0.95 |
| | 2016 | 4039.11 | 4039.61 | 4041.47 | 4040.59 | 1.85 | 0.97 | -0.88 |
| | 162965 | 4038.62 | 4039.12 | 4041.17 | 4040.21 | 2.05 | 1.09 | -0.96 |
| | 282631 | 4038.49 | 4038.99 | 4041.39 | 4040.51 | 2.40 | 1.52 | -0.88 |
| | 530068 | 4038.59 | 4039.09 | 4041.33 | 4040.47 | 2.25 | 1.39 | -0.86 |
| | 474557 | 4039.33 | 4039.83 | 4041.43 | 4040.54 | 1.60 | 0.71 | -0.89 |
| | 423705 | 4067.73 | 4068.23 | 4068.67 | 4067.74 | 0.44 | 0.00 | -0.44 |
| | 163038 | 4039.66 | 4040.16 | 4041.69 | 4040.91 | 1.53 | 0.75 | -0.78 |
| | 282625 | 4039.25 | 4039.75 | 4041.47 | 4040.54 | 1.72 | 0.79 | -0.93 |
| | 397596 | 4039.41 | 4039.91 | 4041.45 | 4040.54 | 1.54 | 0.63 | -0.91 |
| | 2554 | 4039.71 | 4040.21 | 4041.73 | 4040.94 | 1.52 | 0.73 | -0.78 |
| | 44820 | 4068.28 | 4068.78 | 4069.17 | 4068.12 | 0.39 | 0.00 | -0.39 |
| | 321418 | 4069.63 | 4070.13 | 4070.58 | 4069.91 | 0.45 | 0.00 | -0.45 |
| | 1956 | 4068.92 | 4069.42 | 4069.74 | 4068.83 | 0.32 | 0.00 | -0.32 |
| | 321502 | 4065.57 | 4066.07 | 4067.71 | 4067.00 | 1.64 | 0.93 | -0.71 |
| | 119683 | 4031.86 | 4032.36 | 4033.41 | 0.00 | 1.04 | 0.00 | -1.04 |
| | 74275 | 4065.48 | 4065.98 | 4067.64 | 4066.89 | 1.65 | 0.91 | -0.74 |
| | 627863 | 4063.42 | 4063.92 | 4067.01 | 4066.16 | 3.09 | 2.24 | -0.85 |
| | 491872 | 4065.38 | 4065.88 | 4067.28 | 4066.40 | 1.40 | 0.52 | -0.88 |
| | 397946 | 4065.81 | 4066.31 | 4067.57 | 4066.74 | 1.26 | 0.43 | -0.83 |
| | 423782 | 4066.35 | 4066.85 | 4067.40 | 4066.66 | 0.55 | 0.00 | -0.55 |
| | 27340 | 4071.49 | 4071.99 | 4072.29 | 4070.86 | 0.30 | 0.00 | -0.30 |
| | 121299 | 4066.32 | 4066.82 | 4067.46 | 4066.69 | 0.64 | 0.00 | -0.64 |
| | 119574 | 4066.23 | 4066.73 | 4067.54 | 4066.75 | 0.81 | 0.02 | -0.79 |
| | 397560 | 4066.45 | 4066.95 | 4067.76 | 4066.95 | 0.81 | 0.00 | -0.81 |
| | 504662 | 4065.92 | 4066.42 | 4067.61 | 4066.83 | 1.19 | 0.41 | -0.78 |
| | 239408 | 4066.59 | 4067.09 | 4067.92 | 4067.18 | 0.83 | 0.09 | -0.74 |
| | 2443 | 4066.43 | 4066.93 | 4067.71 | 4066.97 | 0.78 | 0.04 | -0.74 |
| | 542678 | 4066.69 | 4067.19 | 4068.09 | 4067.38 | 0.90 | 0.19 | -0.71 |
| | 346551 | 4066.46 | 4066.96 | 4067.82 | 4067.11 | 0.86 | 0.15 | -0.71 |
| | 606845 | 4066.59 | 4067.09 | 4068.23 | 4067.48 | 1.14 | 0.39 | -0.75 |
| | 504756 | 4033.01 | 4033.51 | 4034.26 | 0.00 | 0.75 | 0.00 | -0.75 |
| | 201169 | 4066.30 | 4066.80 | 4067.94 | 4067.24 | 1.15 | 0.45 | -0.70 |
| | 397945 | 4066.50 | 4067.00 | 4068.34 | 4067.57 | 1.34 | 0.57 | -0.76 |
| | 373830 | 4066.07 | 4066.57 | 4068.07 | 4067.34 | 1.49 | 0.77 | -0.73 |
| | 542677 | 4066.40 | 4066.90 | 4068.45 | 4067.65 | 1.56 | 0.76 | -0.80 |
| | 589095 | 4071.72 | 4072.22 | 4072.31 | 4070.84 | 0.09 | 0.00 | -0.09 |
| | 73430 | 4066.09 | 4066.59 | 4068.21 | 4067.45 | 1.63 | 0.86 | -0.77 |
| | 397948 | 4066.38 | 4066.88 | 4068.56 | 4067.71 | 1.68 | 0.84 | -0.85 |
| | 423781 | 4066.25 | 4066.75 | 4068.29 | 4067.54 | 1.54 | 0.79 | -0.75 |
| | 163540 | 4071.32 | 4071.82 | 4072.66 | 4071.22 | 0.85 | 0.00 | -0.85 |
| | 504779 | 4027.16 | 4027.66 | 4027.77 | 4026.86 | 0.11 | 0.00 | -0.11 |
| | 627861 | 4066.31 | 4066.81 | 4068.35 | 4067.58 | 1.54 | 0.77 | -0.76 |
| | 27388 | 4066.05 | 4066.55 | 4068.42 | 4067.64 | 1.86 | 1.08 | -0.78 |
| | 240165 | 4028.12 | 4028.62 | 4028.86 | 4028.17 | 0.25 | 0.00 | -0.25 |
| | 448799 | 4066.64 | 4067.14 | 4068.47 | 4067.68 | 1.33 | 0.54 | -0.79 |
| 73433 | 4066.60 | 4067.10 | 4068.50 | 4067.71 | 1.40 | 0.61 | -0.79 | |
| 299780 | 4028.47 | 4028.97 | 4029.12 | 4028.63 | 0.15 | 0.00 | -0.15 | |
| 671008 | 4066.50 | 4067.00 | 4068.51 | 4067.71 | 1.51 | 0.71 | -0.80 | |
| 320586 | 4072.54 | 4073.04 | 4073.06 | 4071.86 | 0.02 | 0.00 | -0.02 | |
| 121298 | 4066.67 | 4067.17 | 4068.51 | 4067.72 | 1.34 | 0.54 | -0.80 | |
| 320586 | 4072.54 | 4073.04 | 4073.06 | 4071.86 | 0.02 | 0.00 | -0.02 | |
| 239868 | 4066.85 | 4067.35 | 4068.51 | 4067.72 | 1.16 | 0.37 | -0.79 | |
| 44831 | 4066.81 | 4067.31 | 4068.51 | 4067.72 | 1.20 | 0.41 | -0.79 | |
| 397563 | 4067.03 | 4067.53 | 4068.50 | 4067.72 | 0.97 | 0.19 | -0.79 | |
| 44834 | 4067.31 | 4067.81 | 4068.49 | 4067.71 | 0.69 | 0.00 | -0.69 | |
| 73431 | 4067.38 | 4067.88 | 4068.49 | 4067.71 | 0.61 | 0.00 | -0.61 | |
| 606846 | 4067.51 | 4068.01 | 4068.48 | 4067.70 | 0.47 | 0.00 | -0.47 | |
| 671011 | 4067.72 | 4068.22 | 4068.47 | 4067.70 | 0.25 | 0.00 | -0.25 | |
| 120712 | 4067.74 | 4068.24 | 4068.46 | 4067.70 | 0.23 | 0.00 | -0.23 | |
| 373831 | 4067.48 | 4067.98 | 4068.45 | 4067.70 | 0.47 | 0.00 | -0.47 | |
| 589139 | 4067.53 | 4068.03 | 4068.43 | 4067.63 | 0.41 | 0.00 | -0.41 | |
| 653539 | 4067.70 | 4068.20 | 4068.41 | 0.00 | 0.20 | 0.00 | -0.20 | |
| 27775 | 4072.75 | 4073.25 | 4073.32 | 4071.91 | 0.07 | 0.00 | -0.07 | |
| 423363 | 4067.57 | 4068.07 | 4068.32 | 0.00 | 0.25 | 0.00 | -0.25 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Commercial Buildings | 397681 | 4080.16 | 4080.66 | 4080.95 | 4079.99 | 0.28 | 0.00 | -0.28 |
| | 121029 | 4067.74 | 4068.24 | 4068.26 | 0.00 | 0.02 | 0.00 | -0.02 |
| | 162731 | 4072.32 | 4072.82 | 4073.30 | 4071.92 | 0.48 | 0.00 | -0.48 |
| | 517435 | 4067.35 | 4067.85 | 4068.20 | 0.00 | 0.34 | 0.00 | -0.34 |
| | 530011 | 4067.24 | 4067.74 | 4068.14 | 0.00 | 0.40 | 0.00 | -0.40 |
| | 563338 | 4079.54 | 4080.04 | 4080.95 | 4079.99 | 0.92 | 0.00 | -0.92 |
| | 121030 | 4067.42 | 4067.92 | 4068.13 | 0.00 | 0.21 | 0.00 | -0.21 |
| | 239409 | 4067.61 | 4068.11 | 4068.19 | 0.00 | 0.08 | 0.00 | -0.08 |
| | 239869 | 4067.61 | 4068.11 | 4068.26 | 0.00 | 0.15 | 0.00 | -0.15 |
| | 239603 | 4021.92 | 4022.42 | 4027.72 | 4026.80 | 5.30 | 4.38 | -0.92 |
| | 120713 | 4067.61 | 4068.11 | 4068.35 | 0.00 | 0.24 | 0.00 | -0.24 |
| | 670936 | 4074.15 | 4074.65 | 4074.69 | 4073.65 | 0.05 | 0.00 | -0.05 |
| | 371866 | 4079.19 | 4079.69 | 4080.97 | 4080.58 | 1.27 | 0.89 | -0.39 |
| | 632082 | 4067.41 | 4067.91 | 4068.43 | 0.00 | 0.52 | 0.00 | -0.52 |
| | 542552 | 4079.52 | 4080.02 | 4080.97 | 4080.62 | 0.94 | 0.59 | -0.35 |
| | 423365 | 4067.49 | 4067.99 | 4068.46 | 4067.76 | 0.47 | 0.00 | -0.47 |
| | 346351 | 4067.48 | 4067.98 | 4068.47 | 4067.76 | 0.49 | 0.00 | -0.49 |
| | 162639 | 4079.25 | 4079.75 | 4080.97 | 4080.60 | 1.22 | 0.85 | -0.37 |
| | 299625 | 4071.48 | 4071.98 | 4073.21 | 4071.80 | 1.23 | 0.00 | -1.23 |
| | 201666 | 4067.24 | 4067.74 | 4068.48 | 4067.76 | 0.74 | 0.02 | -0.72 |
| | 423364 | 4066.90 | 4067.40 | 4068.47 | 4067.76 | 1.07 | 0.36 | -0.72 |
| | 261576 | 4024.32 | 4024.82 | 4026.02 | 0.00 | 1.20 | 0.00 | -1.20 |
| | 240832 | 4066.39 | 4066.89 | 4068.47 | 4067.76 | 1.58 | 0.86 | -0.72 |
| | 653540 | 4066.48 | 4066.98 | 4068.47 | 4067.76 | 1.49 | 0.78 | -0.71 |
| | 448893 | 4075.72 | 4076.22 | 4080.96 | 4079.99 | 4.74 | 3.77 | -0.97 |
| | 606847 | 4066.58 | 4067.08 | 4068.47 | 4067.76 | 1.39 | 0.67 | -0.71 |
| | 73429 | 4066.75 | 4067.25 | 4068.47 | 4067.76 | 1.22 | 0.51 | -0.71 |
| | 631844 | 4074.39 | 4074.89 | 4080.96 | 4079.99 | 6.07 | 5.10 | -0.97 |
| | 74818 | 4025.33 | 4025.83 | 4026.92 | 0.00 | 1.09 | 0.00 | -1.09 |
| | 119435 | 4080.45 | 4080.95 | 4080.97 | 4080.08 | 0.02 | 0.00 | -0.02 |
| | 1968 | 4066.97 | 4067.47 | 4068.46 | 4067.76 | 1.00 | 0.29 | -0.71 |
| | 504663 | 4066.91 | 4067.41 | 4068.46 | 4067.76 | 1.05 | 0.34 | -0.70 |
| | 670864 | 4074.28 | 4074.78 | 4080.96 | 4079.99 | 6.18 | 5.21 | -0.97 |
| | 202095 | 4066.70 | 4067.20 | 4068.46 | 4067.76 | 1.26 | 0.56 | -0.70 |
| | 74277 | 4066.79 | 4067.29 | 4068.45 | 4067.76 | 1.16 | 0.46 | -0.70 |
| | 627860 | 4066.75 | 4067.25 | 4068.45 | 4067.76 | 1.20 | 0.51 | -0.69 |
| | 27390 | 4066.64 | 4067.14 | 4068.45 | 4067.76 | 1.30 | 0.61 | -0.69 |
| | 653478 | 4074.17 | 4074.67 | 4075.28 | 4074.27 | 0.61 | 0.00 | -0.61 |
| | 589138 | 4066.69 | 4067.19 | 4068.45 | 4067.76 | 1.25 | 0.56 | -0.69 |
| | 261452 | 4066.68 | 4067.18 | 4068.45 | 4067.76 | 1.26 | 0.57 | -0.69 |
| | 73996 | 4066.62 | 4067.12 | 4068.45 | 4067.76 | 1.33 | 0.64 | -0.69 |
| | 299686 | 4066.51 | 4067.01 | 4068.45 | 4067.76 | 1.44 | 0.75 | -0.69 |
| | 671009 | 4066.44 | 4066.94 | 4068.44 | 4067.76 | 1.50 | 0.82 | -0.69 |
| | 346153 | 4077.95 | 4078.45 | 4080.96 | 4079.99 | 2.51 | 1.54 | -0.97 |
| | 44778 | 4074.11 | 4074.61 | 4074.63 | 0.00 | 0.01 | 0.00 | -0.01 |
| | 397564 | 4066.47 | 4066.97 | 4068.44 | 4067.76 | 1.47 | 0.78 | -0.68 |
| | 27780 | 4073.16 | 4073.66 | 4074.24 | 0.00 | 0.59 | 0.00 | -0.59 |
| | 73997 | 4066.62 | 4067.12 | 4068.43 | 4067.76 | 1.31 | 0.64 | -0.68 |
| 120125 | 4203.60 | 4204.10 | 4204.22 | 4204.09 | 0.11 | 0.00 | -0.11 | |
| 517295 | 4115.96 | 4116.46 | 4116.58 | 4116.58 | 0.12 | 0.12 | -0.01 | |
| 423208 | 4115.61 | 4116.11 | 4116.83 | 4116.83 | 0.73 | 0.73 | 0.00 | |
| 397389 | 4115.85 | 4116.35 | 4116.63 | 4116.58 | 0.28 | 0.23 | -0.05 | |
| 201691 | 4052.58 | 4053.08 | 4054.54 | 4053.91 | 1.46 | 0.83 | -0.63 | |
| 2473 | 4052.71 | 4053.21 | 4054.80 | 4054.12 | 1.59 | 0.91 | -0.68 | |
| 654736 | 4053.35 | 4053.85 | 4054.57 | 4053.93 | 0.72 | 0.08 | -0.64 | |
| 504665 | 4053.69 | 4054.19 | 4055.50 | 4055.38 | 1.31 | 1.19 | -0.12 | |
| 563497 | 4055.24 | 4055.74 | 4056.12 | 4056.11 | 0.38 | 0.37 | -0.01 | |
| 239418 | 4054.73 | 4055.23 | 4056.32 | 4056.32 | 1.08 | 1.08 | 0.00 | |
| 320646 | 4055.53 | 4056.03 | 4056.63 | 4056.63 | 0.59 | 0.59 | 0.00 | |
| 73998 | 4056.02 | 4056.52 | 4056.57 | 4056.57 | 0.04 | 0.04 | 0.00 | |
| 671012 | 4053.68 | 4054.18 | 4054.74 | 4054.74 | 0.57 | 0.57 | 0.00 | |
| 1967 | 4052.83 | 4053.33 | 4054.95 | 4054.95 | 1.62 | 1.62 | 0.00 | |
| 73434 | 4052.29 | 4052.79 | 4054.83 | 4054.83 | 2.04 | 2.04 | 0.00 | |
| 239464 | 4042.34 | 4042.84 | 4054.49 | 4054.48 | 11.65 | 11.64 | -0.01 | |
| 398018 | 4049.97 | 4050.47 | 4055.13 | 4055.13 | 4.67 | 4.66 | 0.00 | |
| 653543 | 4050.60 | 4051.10 | 4055.13 | 4055.13 | 4.03 | 4.03 | 0.00 | |
| 0.2% Annual Chance Residences | 299706 | 4041.76 | 4042.26 | 4042.39 | 4042.18 | 0.13 | 0.00 | -0.13 |
| | 119597 | 4043.14 | 4043.64 | 4044.16 | 4044.01 | 0.52 | 0.36 | -0.15 |
| | 373854 | 4041.75 | 4042.25 | 4043.12 | 4042.94 | 0.86 | 0.69 | -0.17 |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 74296 | 4047.12 | 4047.62 | 4048.73 | 4048.62 | 1.12 | 1.00 | -0.11 |
| | 373742 | 4062.87 | 4063.37 | 4063.80 | 4062.25 | 0.43 | 0.00 | -0.43 |
| | 121006 | 4062.55 | 4063.05 | 4064.03 | 4062.25 | 0.99 | 0.00 | -0.99 |
| | 239840 | 4062.86 | 4063.36 | 4064.28 | 4062.26 | 0.92 | 0.00 | -0.92 |
| | 120885 | 4043.55 | 4044.05 | 4044.66 | 4044.49 | 0.62 | 0.45 | -0.17 |
| | 320627 | 4062.74 | 4063.24 | 4063.82 | 4062.61 | 0.58 | 0.00 | -0.58 |
| | 27885 | 4062.81 | 4063.31 | 4063.89 | 4063.22 | 0.59 | 0.00 | -0.59 |
| | 606868 | 4042.07 | 4042.57 | 4043.19 | 4043.10 | 0.62 | 0.53 | -0.09 |
| | 282281 | 4062.41 | 4062.91 | 4064.06 | 4062.59 | 1.15 | 0.00 | -1.15 |
| | 373852 | 4042.20 | 4042.70 | 4043.56 | 4043.32 | 0.86 | 0.62 | -0.24 |
| | 606865 | 4043.11 | 4043.61 | 4044.49 | 4044.27 | 0.88 | 0.66 | -0.22 |
| | 321519 | 4044.47 | 4044.97 | 4045.60 | 4045.26 | 0.63 | 0.29 | -0.34 |
| | 239422 | 4048.63 | 4049.13 | 4049.23 | 0.00 | 0.10 | 0.00 | -0.10 |
| | 474929 | 4063.23 | 4063.73 | 4064.07 | 4062.94 | 0.34 | 0.00 | -0.34 |
| | 73971 | 4062.00 | 4062.50 | 4064.35 | 4062.26 | 1.86 | 0.00 | -1.86 |
| | 373824 | 4063.97 | 4064.47 | 4064.51 | 4064.13 | 0.04 | 0.00 | -0.04 |
| | 346421 | 4043.56 | 4044.06 | 4045.19 | 0.00 | 1.13 | 0.00 | -1.13 |
| | 162897 | 4042.05 | 4042.55 | 4042.75 | 0.00 | 0.21 | 0.00 | -0.21 |
| | 491889 | 4045.08 | 4045.58 | 4046.93 | 4046.72 | 1.35 | 1.15 | -0.21 |
| | 27395 | 4046.84 | 4047.34 | 4048.28 | 4048.02 | 0.94 | 0.68 | -0.26 |
| | 654724 | 4046.00 | 4046.50 | 4047.40 | 4047.17 | 0.90 | 0.67 | -0.23 |
| | 73400 | 4063.02 | 4063.52 | 4064.07 | 4063.38 | 0.55 | 0.00 | -0.55 |
| | 423778 | 4063.48 | 4063.98 | 4064.00 | 4063.57 | 0.01 | 0.00 | -0.01 |
| | 373845 | 4048.34 | 4048.84 | 4049.58 | 4049.38 | 0.74 | 0.54 | -0.20 |
| | 121290 | 4063.74 | 4064.24 | 4064.53 | 4064.13 | 0.29 | 0.00 | -0.29 |
| | 321414 | 4062.30 | 4062.80 | 4064.33 | 4062.31 | 1.53 | 0.00 | -1.53 |
| | 542672 | 4063.45 | 4063.95 | 4064.29 | 0.00 | 0.33 | 0.00 | -0.33 |
| | 73973 | 4062.86 | 4063.36 | 4064.33 | 4062.48 | 0.97 | 0.00 | -0.97 |
| | 201555 | 4063.95 | 4064.45 | 4064.87 | 4064.51 | 0.42 | 0.07 | -0.36 |
| | 282531 | 4063.88 | 4064.38 | 4064.39 | 4064.10 | 0.01 | 0.00 | -0.01 |
| | 239851 | 4063.65 | 4064.15 | 4064.19 | 0.00 | 0.04 | 0.00 | -0.04 |
| | 423704 | 4063.85 | 4064.35 | 4064.44 | 4064.21 | 0.09 | 0.00 | -0.09 |
| | 239968 | 4050.05 | 4050.55 | 4050.91 | 4050.75 | 0.37 | 0.20 | -0.17 |
| | 653546 | 4048.56 | 4049.06 | 4049.75 | 4049.43 | 0.69 | 0.37 | -0.33 |
| | 44845 | 4044.89 | 4045.39 | 4046.18 | 4045.75 | 0.79 | 0.36 | -0.43 |
| | 163740 | 4047.21 | 4047.71 | 4048.35 | 4047.91 | 0.64 | 0.20 | -0.44 |
| | 593239 | 4042.08 | 4042.58 | 4043.08 | 4042.82 | 0.49 | 0.23 | -0.26 |
| | 474536 | 4041.28 | 4041.78 | 4042.52 | 0.00 | 0.74 | 0.00 | -0.74 |
| | 423811 | 4041.23 | 4041.73 | 4042.57 | 4042.28 | 0.84 | 0.55 | -0.29 |
| | 2350 | 4061.00 | 4061.50 | 4064.36 | 4062.33 | 2.87 | 0.83 | -2.03 |
| | 593184 | 4063.49 | 4063.99 | 4064.35 | 4062.99 | 0.36 | 0.00 | -0.36 |
| | 568224 | 4046.49 | 4046.99 | 4047.86 | 4047.42 | 0.86 | 0.42 | -0.44 |
| | 653545 | 4052.14 | 4052.64 | 4053.44 | 4053.31 | 0.81 | 0.67 | -0.14 |
| | 27415 | 4041.02 | 4041.52 | 4042.54 | 4042.43 | 1.02 | 0.91 | -0.11 |
| | 627871 | 4047.00 | 4047.50 | 4048.31 | 4047.91 | 0.81 | 0.41 | -0.40 |
| | 162747 | 4062.78 | 4063.28 | 4064.38 | 4062.26 | 1.10 | 0.00 | -1.10 |
| | 240819 | 4063.82 | 4064.32 | 4064.51 | 4063.99 | 0.19 | 0.00 | -0.19 |
| | 372040 | 4041.03 | 4041.53 | 4042.52 | 4042.20 | 0.99 | 0.67 | -0.32 |
| | 491890 | 4043.10 | 4043.60 | 4044.57 | 4044.38 | 0.97 | 0.78 | -0.19 |
| | 373846 | 4049.72 | 4050.22 | 4051.61 | 0.00 | 1.39 | 0.00 | -1.39 |
| 201539 | 4063.82 | 4064.32 | 4064.48 | 4063.90 | 0.16 | 0.00 | -0.16 | |
| 44850 | 4042.70 | 4043.20 | 4044.33 | 0.00 | 1.13 | 0.00 | -1.13 | |
| 398032 | 4042.27 | 4042.77 | 4042.92 | 4042.58 | 0.15 | 0.00 | -0.15 | |
| 593232 | 4044.25 | 4044.75 | 4045.55 | 4045.25 | 0.81 | 0.50 | -0.30 | |
| 241006 | 4044.97 | 4045.47 | 4046.17 | 4045.91 | 0.71 | 0.45 | -0.26 | |
| 27402 | 4043.14 | 4043.64 | 4044.74 | 4044.26 | 1.10 | 0.62 | -0.48 | |
| 542687 | 4052.73 | 4053.23 | 4053.42 | 0.00 | 0.18 | 0.00 | -0.18 | |
| 27995 | 4042.52 | 4043.02 | 4044.37 | 4044.02 | 1.36 | 1.00 | -0.35 | |
| 504681 | 4045.33 | 4045.83 | 4046.64 | 4046.42 | 0.81 | 0.59 | -0.22 | |
| 504674 | 4046.93 | 4047.43 | 4048.82 | 4048.60 | 1.40 | 1.17 | -0.23 | |
| 568225 | 4045.78 | 4046.28 | 4047.08 | 4046.84 | 0.80 | 0.56 | -0.24 | |
| 241025 | 4040.66 | 4041.16 | 4042.49 | 4042.19 | 1.33 | 1.03 | -0.29 | |
| 517464 | 4042.83 | 4043.33 | 4044.31 | 4044.02 | 0.98 | 0.69 | -0.29 | |
| 627872 | 4048.69 | 4049.19 | 4050.11 | 4049.82 | 0.92 | 0.63 | -0.29 | |
| 423342 | 4062.94 | 4063.44 | 4064.47 | 4062.92 | 1.03 | 0.00 | -1.03 | |
| 282301 | 4064.77 | 4065.27 | 4065.38 | 0.00 | 0.10 | 0.00 | -0.10 | |
| 449400 | 4040.72 | 4041.22 | 4042.60 | 4042.25 | 1.38 | 1.04 | -0.35 | |
| 44860 | 4040.47 | 4040.97 | 4042.50 | 4042.20 | 1.53 | 1.23 | -0.30 | |
| 1997 | 4040.69 | 4041.19 | 4042.57 | 4042.24 | 1.38 | 1.05 | -0.33 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 398024 | 4043.03 | 4043.53 | 4044.67 | 0.00 | 1.14 | 0.00 | -1.14 |
| | 73446 | 4056.02 | 4056.52 | 4059.05 | 4058.50 | 2.53 | 1.98 | -0.55 |
| | 654634 | 4065.43 | 4065.93 | 4066.14 | 4065.69 | 0.21 | 0.00 | -0.21 |
| | 239974 | 4050.32 | 4050.82 | 4051.58 | 4050.47 | 0.76 | 0.00 | -0.76 |
| | 449382 | 4061.87 | 4062.37 | 4062.63 | 4062.36 | 0.26 | 0.00 | -0.26 |
| | 423381 | 4055.55 | 4056.05 | 4058.60 | 0.00 | 2.55 | 0.00 | -2.55 |
| | 163023 | 4044.95 | 4045.45 | 4045.86 | 4045.61 | 0.41 | 0.16 | -0.25 |
| | 517462 | 4043.41 | 4043.91 | 4044.57 | 4044.31 | 0.66 | 0.40 | -0.26 |
| | 162877 | 4060.81 | 4061.31 | 4061.87 | 4061.67 | 0.56 | 0.35 | -0.21 |
| | 530022 | 4047.60 | 4048.10 | 4049.65 | 4049.51 | 1.55 | 1.41 | -0.14 |
| | 504675 | 4050.21 | 4050.71 | 4051.30 | 4051.11 | 0.59 | 0.40 | -0.19 |
| | 530015 | 4061.62 | 4062.12 | 4062.47 | 4062.22 | 0.35 | 0.10 | -0.25 |
| | 2459 | 4059.98 | 4060.48 | 4062.07 | 4061.80 | 1.59 | 1.31 | -0.28 |
| | 517430 | 4066.40 | 4066.90 | 4067.08 | 4066.74 | 0.19 | 0.00 | -0.19 |
| | 73392 | 4064.47 | 4064.97 | 4065.36 | 4064.56 | 0.39 | 0.00 | -0.39 |
| | 163024 | 4041.53 | 4042.03 | 4043.32 | 4043.21 | 1.29 | 1.18 | -0.11 |
| | 627850 | 4066.55 | 4067.05 | 4067.31 | 4066.92 | 0.26 | 0.00 | -0.26 |
| | 282350 | 4043.83 | 4044.33 | 4045.44 | 4045.26 | 1.11 | 0.92 | -0.18 |
| | 653517 | 4064.82 | 4065.32 | 4065.53 | 4064.68 | 0.21 | 0.00 | -0.21 |
| | 589102 | 4057.79 | 4058.29 | 4064.38 | 4062.26 | 6.10 | 3.98 | -2.12 |
| | 530023 | 4046.62 | 4047.12 | 4047.72 | 0.00 | 0.60 | 0.00 | -0.60 |
| | 27397 | 4050.09 | 4050.59 | 4051.49 | 4051.26 | 0.90 | 0.67 | -0.23 |
| | 320662 | 4041.91 | 4042.41 | 4043.50 | 4043.37 | 1.09 | 0.96 | -0.13 |
| | 282353 | 4043.77 | 4044.27 | 4045.61 | 4045.42 | 1.34 | 1.15 | -0.19 |
| | 606857 | 4059.35 | 4059.85 | 4060.39 | 4059.81 | 0.54 | 0.00 | -0.54 |
| | 346321 | 4058.58 | 4059.08 | 4064.39 | 4062.26 | 5.31 | 3.18 | -2.13 |
| | 239845 | 4065.71 | 4066.21 | 4066.57 | 4065.74 | 0.35 | 0.00 | -0.35 |
| | 321189 | 4075.32 | 4075.82 | 4076.21 | 4075.44 | 0.40 | 0.00 | -0.40 |
| | 530003 | 4067.23 | 4067.73 | 4067.86 | 0.00 | 0.13 | 0.00 | -0.13 |
| | 529980 | 4060.34 | 4060.84 | 4064.39 | 4062.26 | 3.55 | 1.42 | -2.13 |
| | 121022 | 4066.84 | 4067.34 | 4067.64 | 4067.17 | 0.30 | 0.00 | -0.30 |
| | 201557 | 4066.36 | 4066.86 | 4067.53 | 4067.06 | 0.67 | 0.20 | -0.47 |
| | 202084 | 4065.99 | 4066.49 | 4067.39 | 4066.98 | 0.90 | 0.49 | -0.41 |
| | 74301 | 4041.79 | 4042.29 | 4043.44 | 4043.35 | 1.15 | 1.06 | -0.09 |
| | 589160 | 4043.51 | 4044.01 | 4045.55 | 0.00 | 1.54 | 0.00 | -1.54 |
| | 163748 | 4041.88 | 4042.38 | 4043.46 | 4043.40 | 1.07 | 1.02 | -0.06 |
| | 261460 | 4060.12 | 4060.62 | 4060.91 | 4060.10 | 0.29 | 0.00 | -0.29 |
| | 73402 | 4067.44 | 4067.94 | 4067.96 | 4067.45 | 0.02 | 0.00 | -0.02 |
| | 162803 | 4065.81 | 4066.31 | 4067.12 | 4066.14 | 0.81 | 0.00 | -0.81 |
| | 239844 | 4066.22 | 4066.72 | 4067.04 | 4066.21 | 0.33 | 0.00 | -0.33 |
| | 627862 | 4063.52 | 4064.02 | 4064.83 | 4064.42 | 0.81 | 0.40 | -0.41 |
| | 371988 | 4064.77 | 4065.27 | 4065.75 | 4065.02 | 0.48 | 0.00 | -0.48 |
| | 346423 | 4042.39 | 4042.89 | 4044.11 | 4043.36 | 1.23 | 0.48 | -0.75 |
| | 654537 | 4066.47 | 4066.97 | 4067.20 | 4066.85 | 0.23 | 0.00 | -0.23 |
| | 346418 | 4045.21 | 4045.71 | 4046.52 | 4046.49 | 0.80 | 0.78 | -0.02 |
| | 74129 | 4067.75 | 4068.25 | 4068.33 | 4067.70 | 0.08 | 0.00 | -0.08 |
| | 44836 | 4064.41 | 4064.91 | 4065.59 | 4065.28 | 0.68 | 0.37 | -0.31 |
| | 491860 | 4066.74 | 4067.24 | 4068.24 | 4067.55 | 1.00 | 0.31 | -0.69 |
| | 346333 | 4067.24 | 4067.74 | 4068.26 | 4067.59 | 0.52 | 0.00 | -0.52 |
| | 2570 | 4039.66 | 4040.16 | 4041.76 | 4041.02 | 1.61 | 0.87 | -0.74 |
| 74280 | 4064.92 | 4065.42 | 4066.03 | 4065.68 | 0.61 | 0.26 | -0.35 | |
| 239771 | 4068.12 | 4068.62 | 4068.70 | 4067.68 | 0.08 | 0.00 | -0.08 | |
| 529830 | 4194.93 | 4195.43 | 4195.45 | 4195.45 | 0.02 | 0.02 | 0.00 | |
| 120714 | 4065.87 | 4066.37 | 4066.79 | 4066.38 | 0.42 | 0.00 | -0.42 | |
| 475030 | 4065.91 | 4066.41 | 4066.66 | 4066.32 | 0.25 | 0.00 | -0.25 | |
| 653536 | 4066.80 | 4067.30 | 4067.52 | 4067.14 | 0.22 | 0.00 | -0.22 | |
| 542679 | 4065.57 | 4066.07 | 4066.82 | 4066.40 | 0.75 | 0.34 | -0.41 | |
| 606851 | 4065.44 | 4065.94 | 4066.85 | 4066.40 | 0.91 | 0.46 | -0.45 | |
| 261453 | 4065.77 | 4066.27 | 4067.13 | 4066.62 | 0.85 | 0.34 | -0.51 | |
| 491922 | 4038.46 | 4038.96 | 4041.48 | 4040.76 | 2.51 | 1.79 | -0.72 | |
| 2030 | 4038.16 | 4038.66 | 4041.50 | 4040.76 | 2.83 | 2.10 | -0.73 | |
| 568270 | 4038.35 | 4038.85 | 4041.46 | 4040.75 | 2.61 | 1.90 | -0.71 | |
| 654841 | 4038.99 | 4039.49 | 4041.43 | 4040.73 | 1.94 | 1.24 | -0.69 | |
| 321623 | 4038.29 | 4038.79 | 4041.56 | 4040.81 | 2.77 | 2.03 | -0.74 | |
| 563564 | 4039.26 | 4039.76 | 4041.40 | 4040.69 | 1.63 | 0.93 | -0.70 | |
| 73492 | 4037.85 | 4038.35 | 4041.77 | 4040.99 | 3.42 | 2.65 | -0.77 | |
| 320713 | 4038.49 | 4038.99 | 4041.40 | 4040.69 | 2.40 | 1.70 | -0.70 | |
| 563551 | 4038.90 | 4039.40 | 4041.54 | 4040.80 | 2.14 | 1.40 | -0.74 | |
| 44884 | 4038.54 | 4039.04 | 4041.42 | 4040.69 | 2.38 | 1.65 | -0.73 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 239481 | 4038.61 | 4039.11 | 4041.40 | 4040.67 | 2.29 | 1.57 | -0.72 |
| | 371880 | 4078.63 | 4079.13 | 4079.88 | 4078.95 | 0.75 | 0.00 | -0.75 |
| | 474665 | 4079.32 | 4079.82 | 4079.88 | 4078.95 | 0.06 | 0.00 | -0.06 |
| | 474635 | 4026.38 | 4026.88 | 4028.22 | 4027.29 | 1.33 | 0.41 | -0.92 |
| | 201845 | 4038.64 | 4039.14 | 4041.30 | 4040.57 | 2.15 | 1.43 | -0.72 |
| | 163946 | 4038.46 | 4038.96 | 4041.46 | 4040.73 | 2.51 | 1.77 | -0.74 |
| | 320509 | 4079.17 | 4079.67 | 4079.87 | 4078.95 | 0.20 | 0.00 | -0.20 |
| | 299643 | 4071.41 | 4071.91 | 4072.92 | 4071.67 | 1.01 | 0.00 | -1.01 |
| | 282120 | 4079.09 | 4079.59 | 4079.89 | 4078.96 | 0.30 | 0.00 | -0.30 |
| | 282500 | 4026.36 | 4026.86 | 4028.23 | 4027.31 | 1.37 | 0.44 | -0.93 |
| | 239411 | 4066.40 | 4066.90 | 4067.61 | 4067.05 | 0.71 | 0.15 | -0.57 |
| | 27490 | 4026.48 | 4026.98 | 4028.27 | 4027.39 | 1.29 | 0.40 | -0.89 |
| | 653636 | 4028.89 | 4029.39 | 4030.47 | 4030.20 | 1.08 | 0.81 | -0.27 |
| | 240301 | 4078.85 | 4079.35 | 4079.77 | 4078.89 | 0.42 | 0.00 | -0.42 |
| | 423787 | 4066.28 | 4066.78 | 4067.52 | 4067.03 | 0.74 | 0.25 | -0.49 |
| | 627723 | 4078.25 | 4078.75 | 4079.83 | 4078.93 | 1.08 | 0.18 | -0.90 |
| | 120472 | 4078.12 | 4078.62 | 4079.85 | 4078.94 | 1.24 | 0.33 | -0.91 |
| | 201019 | 4078.39 | 4078.89 | 4079.91 | 4078.96 | 1.02 | 0.08 | -0.95 |
| | 73999 | 4065.79 | 4066.29 | 4068.00 | 4067.47 | 1.71 | 1.18 | -0.53 |
| | 448653 | 4078.71 | 4079.21 | 4079.95 | 4078.99 | 0.74 | 0.00 | -0.74 |
| | 201497 | 4078.75 | 4079.25 | 4079.91 | 4078.96 | 0.65 | 0.00 | -0.65 |
| | 162824 | 4065.74 | 4066.24 | 4067.98 | 4067.44 | 1.74 | 1.20 | -0.54 |
| | 282540 | 4066.45 | 4066.95 | 4068.34 | 4067.78 | 1.39 | 0.83 | -0.56 |
| | 2146 | 4078.62 | 4079.12 | 4079.93 | 4078.98 | 0.80 | 0.00 | -0.80 |
| | 397567 | 4066.75 | 4067.25 | 4068.13 | 4067.57 | 0.87 | 0.32 | -0.56 |
| | 119575 | 4066.86 | 4067.36 | 4068.26 | 4067.72 | 0.90 | 0.36 | -0.54 |
| | 654973 | 4027.26 | 4027.76 | 4028.06 | 4027.27 | 0.30 | 0.00 | -0.30 |
| | 653541 | 4066.94 | 4067.44 | 4068.55 | 4067.97 | 1.11 | 0.53 | -0.58 |
| | 201671 | 4066.52 | 4067.02 | 4068.47 | 4067.92 | 1.45 | 0.90 | -0.55 |
| | 164322 | 4022.82 | 4023.32 | 4028.06 | 4027.27 | 4.74 | 3.94 | -0.79 |
| | 423366 | 4066.89 | 4067.39 | 4068.51 | 4067.94 | 1.12 | 0.55 | -0.57 |
| | 346354 | 4066.99 | 4067.49 | 4068.52 | 4067.95 | 1.03 | 0.46 | -0.57 |
| | 491980 | 4027.15 | 4027.65 | 4028.53 | 4028.24 | 0.88 | 0.59 | -0.29 |
| | 44959 | 4024.14 | 4024.64 | 4028.06 | 4027.27 | 3.42 | 2.63 | -0.79 |
| | 28252 | 4022.21 | 4022.71 | 4028.05 | 4027.27 | 5.34 | 4.55 | -0.78 |
| | 74283 | 4067.61 | 4068.11 | 4068.45 | 4067.74 | 0.33 | 0.00 | -0.33 |
| | 632237 | 4024.95 | 4025.45 | 4028.06 | 4027.27 | 2.61 | 1.82 | -0.79 |
| | 593200 | 4067.56 | 4068.06 | 4068.49 | 4067.80 | 0.43 | 0.00 | -0.43 |
| | 201670 | 4067.50 | 4068.00 | 4068.43 | 4067.71 | 0.42 | 0.00 | -0.42 |
| | 504796 | 4023.58 | 4024.08 | 4028.04 | 4027.27 | 3.95 | 3.18 | -0.77 |
| | 423431 | 4078.15 | 4078.65 | 4081.41 | 4080.71 | 2.76 | 2.07 | -0.70 |
| | 163013 | 4067.07 | 4067.57 | 4068.45 | 4067.80 | 0.88 | 0.24 | -0.65 |
| | 517578 | 4027.05 | 4027.55 | 4028.01 | 0.00 | 0.46 | 0.00 | -0.46 |
| | 517562 | 4026.04 | 4026.54 | 4028.14 | 4027.44 | 1.60 | 0.89 | -0.71 |
| | 398014 | 4067.10 | 4067.60 | 4068.38 | 4067.72 | 0.79 | 0.12 | -0.66 |
| | 320799 | 4022.72 | 4023.22 | 4028.03 | 4027.27 | 4.81 | 4.04 | -0.77 |
| | 491874 | 4067.03 | 4067.53 | 4068.40 | 4067.72 | 0.86 | 0.19 | -0.67 |
| | 320773 | 4025.43 | 4025.93 | 4028.30 | 4027.80 | 2.37 | 1.87 | -0.50 |
| | 321883 | 4024.64 | 4025.14 | 4025.58 | 4025.04 | 0.44 | 0.00 | -0.44 |
| | 423550 | 4024.63 | 4025.13 | 4028.02 | 4027.26 | 2.88 | 2.13 | -0.75 |
| 2080 | 4025.57 | 4026.07 | 4028.35 | 4027.92 | 2.28 | 1.85 | -0.43 | |
| 74088 | 4071.62 | 4072.12 | 4073.77 | 4072.48 | 1.65 | 0.36 | -1.29 | |
| 299688 | 4066.70 | 4067.20 | 4068.46 | 4067.80 | 1.26 | 0.60 | -0.66 | |
| 239568 | 4020.18 | 4020.68 | 4028.03 | 4027.26 | 7.35 | 6.58 | -0.76 | |
| 491873 | 4067.37 | 4067.87 | 4068.56 | 0.00 | 0.69 | 0.00 | -0.69 | |
| 346780 | 4024.57 | 4025.07 | 4026.04 | 4025.37 | 0.97 | 0.30 | -0.67 | |
| 397709 | 4020.48 | 4020.98 | 4028.03 | 4027.26 | 7.05 | 6.29 | -0.76 | |
| 241410 | 4021.45 | 4021.95 | 4028.03 | 4027.26 | 6.08 | 5.32 | -0.76 | |
| 4865953 | 4024.47 | 4024.97 | 4026.10 | 4025.45 | 1.12 | 0.47 | -0.65 | |
| 423786 | 4067.25 | 4067.75 | 4068.49 | 0.00 | 0.75 | 0.00 | -0.75 | |
| 202783 | 4025.40 | 4025.90 | 4026.94 | 4026.13 | 1.04 | 0.23 | -0.81 | |
| 654965 | 4021.00 | 4021.50 | 4028.02 | 4027.26 | 6.52 | 5.76 | -0.76 | |
| 74089 | 4071.23 | 4071.73 | 4073.77 | 4072.48 | 2.05 | 0.76 | -1.29 | |
| 398013 | 4067.37 | 4067.87 | 4068.63 | 4068.14 | 0.76 | 0.27 | -0.49 | |
| 121671 | 4026.02 | 4026.52 | 4027.37 | 4026.69 | 0.85 | 0.17 | -0.68 | |
| 589083 | 4073.49 | 4073.99 | 4074.93 | 4073.77 | 0.94 | 0.00 | -0.94 | |
| 373833 | 4067.09 | 4067.59 | 4068.49 | 0.00 | 0.90 | 0.00 | -0.90 | |
| 653660 | 4019.61 | 4020.11 | 4028.02 | 4027.26 | 7.92 | 7.16 | -0.76 | |
| 346777 | 4025.61 | 4026.11 | 4027.30 | 4026.39 | 1.18 | 0.28 | -0.90 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 44786 | 4071.15 | 4071.65 | 4073.55 | 4072.33 | 1.90 | 0.68 | -1.22 |
| | 73580 | 4022.52 | 4023.02 | 4028.02 | 4027.26 | 5.00 | 4.24 | -0.76 |
| | 346762 | 4022.98 | 4023.48 | 4028.03 | 4027.26 | 4.55 | 3.79 | -0.76 |
| | 346142 | 4079.41 | 4079.91 | 4081.44 | 4080.72 | 1.53 | 0.82 | -0.71 |
| | 299631 | 4071.64 | 4072.14 | 4073.77 | 4072.47 | 1.63 | 0.33 | -1.30 |
| | 240996 | 4066.67 | 4067.17 | 4068.45 | 4067.69 | 1.28 | 0.52 | -0.76 |
| | 27772 | 4073.06 | 4073.56 | 4074.99 | 4073.81 | 1.43 | 0.25 | -1.18 |
| | 529950 | 4073.25 | 4073.75 | 4074.90 | 4073.75 | 1.15 | 0.00 | -1.15 |
| | 346388 | 4073.85 | 4074.35 | 4075.11 | 4073.94 | 0.76 | 0.00 | -0.76 |
| | 474650 | 4021.06 | 4021.56 | 4028.01 | 4027.26 | 6.46 | 5.70 | -0.75 |
| | 163097 | 4022.87 | 4023.37 | 4028.02 | 4027.26 | 4.65 | 3.89 | -0.76 |
| | 563629 | 4022.91 | 4023.41 | 4028.02 | 4027.26 | 4.61 | 3.86 | -0.76 |
| | 2110 | 4022.60 | 4023.10 | 4028.01 | 4027.26 | 4.91 | 4.16 | -0.75 |
| | 449181 | 4072.28 | 4072.78 | 4073.68 | 4072.39 | 0.90 | 0.00 | -0.90 |
| | 74282 | 4066.80 | 4067.30 | 4068.39 | 4067.69 | 1.09 | 0.39 | -0.70 |
| | 321307 | 4074.29 | 4074.79 | 4075.58 | 4074.45 | 0.79 | 0.00 | -0.79 |
| | 423785 | 4066.73 | 4067.23 | 4068.41 | 0.00 | 1.17 | 0.00 | -1.17 |
| | 74279 | 4066.87 | 4067.37 | 4068.47 | 4067.70 | 1.10 | 0.32 | -0.77 |
| | 120135 | 4078.82 | 4079.32 | 4081.44 | 4080.72 | 2.12 | 1.41 | -0.71 |
| | 589257 | 4023.36 | 4023.86 | 4028.02 | 4027.26 | 4.16 | 3.40 | -0.76 |
| | 74281 | 4066.55 | 4067.05 | 4068.36 | 4067.70 | 1.31 | 0.65 | -0.66 |
| | 201784 | 4072.87 | 4073.37 | 4075.18 | 4073.98 | 1.81 | 0.61 | -1.20 |
| | 654968 | 4021.83 | 4022.33 | 4028.01 | 4027.26 | 5.68 | 4.93 | -0.75 |
| | 27517 | 4024.32 | 4024.82 | 4028.00 | 4027.26 | 3.18 | 2.44 | -0.74 |
| | 606794 | 4072.86 | 4073.36 | 4075.11 | 4073.95 | 1.75 | 0.59 | -1.16 |
| | 504794 | 4021.79 | 4022.29 | 4028.01 | 4027.26 | 5.72 | 4.97 | -0.75 |
| | 239546 | 4027.39 | 4027.89 | 4028.58 | 4028.04 | 0.69 | 0.15 | -0.54 |
| | 346352 | 4066.79 | 4067.29 | 4068.61 | 4068.04 | 1.32 | 0.76 | -0.57 |
| | 2450 | 4066.52 | 4067.02 | 4068.33 | 4067.69 | 1.31 | 0.67 | -0.63 |
| | 120858 | 4072.32 | 4072.82 | 4076.20 | 4075.03 | 3.38 | 2.21 | -1.18 |
| | 164327 | 4021.69 | 4022.19 | 4028.00 | 4027.26 | 5.82 | 5.07 | -0.75 |
| | 504523 | 4079.74 | 4080.24 | 4081.45 | 4080.74 | 1.21 | 0.50 | -0.71 |
| | 120132 | 4080.18 | 4080.68 | 4081.46 | 4080.84 | 0.77 | 0.16 | -0.62 |
| | 670940 | 4073.37 | 4073.87 | 4075.37 | 4074.17 | 1.50 | 0.30 | -1.20 |
| | 162839 | 4074.08 | 4074.58 | 4076.17 | 4075.01 | 1.59 | 0.44 | -1.16 |
| | 201381 | 4025.02 | 4025.52 | 4027.47 | 4026.71 | 1.95 | 1.20 | -0.76 |
| | 2802 | 4022.35 | 4022.85 | 4028.00 | 4027.26 | 5.15 | 4.41 | -0.74 |
| | 201992 | 4022.35 | 4022.85 | 4028.00 | 4027.26 | 5.14 | 4.40 | -0.74 |
| | 121301 | 4066.43 | 4066.93 | 4068.48 | 4067.97 | 1.55 | 1.04 | -0.51 |
| | 240273 | 4021.48 | 4021.98 | 4028.00 | 4027.26 | 6.02 | 5.28 | -0.74 |
| | 239240 | 4079.67 | 4080.17 | 4081.45 | 4080.74 | 1.28 | 0.57 | -0.71 |
| | 606982 | 4022.24 | 4022.74 | 4028.00 | 4027.26 | 5.26 | 4.52 | -0.75 |
| | 28244 | 4021.60 | 4022.10 | 4028.00 | 4027.26 | 5.90 | 5.16 | -0.74 |
| | 474654 | 4024.31 | 4024.81 | 4027.99 | 4027.26 | 3.19 | 2.45 | -0.74 |
| | 593005 | 4074.60 | 4075.10 | 4081.43 | 4080.72 | 6.33 | 5.62 | -0.71 |
| | 162709 | 4080.85 | 4081.35 | 4081.38 | 4080.67 | 0.03 | 0.00 | -0.03 |
| | 568164 | 4073.53 | 4074.03 | 4075.51 | 4074.30 | 1.48 | 0.27 | -1.21 |
| | 346145 | 4074.24 | 4074.74 | 4081.44 | 4080.72 | 6.70 | 5.99 | -0.71 |
| | 320804 | 4021.37 | 4021.87 | 4028.00 | 4027.26 | 6.13 | 5.39 | -0.74 |
| | 606795 | 4073.55 | 4074.05 | 4075.26 | 4074.11 | 1.21 | 0.06 | -1.14 |
| 589034 | 4076.69 | 4077.19 | 4078.40 | 4077.49 | 1.21 | 0.30 | -0.91 | |
| 119436 | 4074.89 | 4075.39 | 4081.43 | 4080.72 | 6.04 | 5.33 | -0.71 | |
| 474352 | 4074.31 | 4074.81 | 4081.44 | 4080.72 | 6.63 | 5.91 | -0.71 | |
| 321092 | 4079.95 | 4080.45 | 4081.41 | 4080.71 | 0.97 | 0.26 | -0.71 | |
| 73685 | 4077.49 | 4077.99 | 4081.43 | 4080.72 | 3.44 | 2.73 | -0.71 | |
| 201010 | 4074.79 | 4075.29 | 4081.43 | 4080.72 | 6.14 | 5.43 | -0.71 | |
| 120250 | 4078.60 | 4079.10 | 4079.90 | 4079.16 | 0.80 | 0.07 | -0.73 | |
| 529850 | 4077.38 | 4077.88 | 4081.44 | 4080.73 | 3.56 | 2.84 | -0.71 | |
| 397418 | 4078.92 | 4079.42 | 4080.56 | 4079.77 | 1.14 | 0.36 | -0.79 | |
| 631842 | 4080.50 | 4081.00 | 4081.46 | 4080.74 | 0.45 | 0.00 | -0.45 | |
| 474485 | 4072.44 | 4072.94 | 4073.18 | 4072.21 | 0.24 | 0.00 | -0.24 | |
| 239598 | 4075.33 | 4075.83 | 4078.21 | 4077.35 | 2.38 | 1.52 | -0.86 | |
| 631879 | 4078.56 | 4079.06 | 4081.42 | 4080.71 | 2.36 | 1.65 | -0.71 | |
| 504555 | 4079.50 | 4080.00 | 4080.52 | 4079.85 | 0.53 | 0.00 | -0.53 | |
| 504571 | 4073.16 | 4073.66 | 4076.96 | 4075.66 | 3.29 | 2.00 | -1.29 | |
| 73229 | 4076.24 | 4076.74 | 4081.44 | 4080.72 | 4.70 | 3.98 | -0.71 | |
| 593236 | 4049.63 | 4050.13 | 4050.53 | 4048.55 | 0.40 | 0.00 | -0.40 | |
| 240824 | 4069.58 | 4070.08 | 4070.09 | 0.00 | 0.01 | 0.00 | -0.01 | |
| 74134 | 4062.83 | 4063.33 | 4064.69 | 0.00 | 1.36 | 0.00 | -1.36 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 27238 | 4183.40 | 4183.90 | 4184.96 | 4184.93 | 1.07 | 1.03 | -0.04 |
| | 373463 | 4076.69 | 4077.19 | 4081.43 | 4080.70 | 4.24 | 3.51 | -0.73 |
| | 74313 | 4042.85 | 4043.35 | 4043.90 | 0.00 | 0.56 | 0.00 | -0.56 |
| | 504535 | 4076.52 | 4077.02 | 4081.43 | 4080.70 | 4.41 | 3.68 | -0.73 |
| | 423443 | 4076.20 | 4076.70 | 4081.43 | 4080.70 | 4.73 | 4.00 | -0.73 |
| | 653562 | 4042.05 | 4042.55 | 4043.48 | 0.00 | 0.93 | 0.00 | -0.93 |
| | 201783 | 4073.97 | 4074.47 | 4076.07 | 4074.97 | 1.60 | 0.50 | -1.10 |
| | 201208 | 4040.75 | 4041.25 | 4041.73 | 0.00 | 0.48 | 0.00 | -0.48 |
| | 120519 | 4074.73 | 4075.23 | 4075.83 | 4074.90 | 0.60 | 0.00 | -0.60 |
| | 261475 | 4042.34 | 4042.84 | 4043.77 | 0.00 | 0.93 | 0.00 | -0.93 |
| | 162855 | 4072.85 | 4073.35 | 4076.08 | 4074.98 | 2.72 | 1.62 | -1.10 |
| | 449156 | 4073.98 | 4074.48 | 4076.11 | 4074.99 | 1.63 | 0.50 | -1.13 |
| | 1915 | 4074.57 | 4075.07 | 4076.06 | 4074.97 | 0.99 | 0.00 | -0.99 |
| | 201100 | 4073.23 | 4073.73 | 4076.07 | 4074.97 | 2.34 | 1.24 | -1.10 |
| | 517373 | 4073.63 | 4074.13 | 4076.09 | 4074.98 | 1.96 | 0.85 | -1.11 |
| | 627761 | 4074.67 | 4075.17 | 4076.75 | 4075.51 | 1.58 | 0.34 | -1.23 |
| | 542637 | 4074.35 | 4074.85 | 4076.07 | 4074.97 | 1.22 | 0.13 | -1.09 |
| | 589081 | 4073.60 | 4074.10 | 4076.07 | 4074.97 | 1.97 | 0.87 | -1.10 |
| | 119506 | 4075.18 | 4075.68 | 4076.13 | 4074.99 | 0.45 | 0.00 | -0.45 |
| | 474445 | 4075.24 | 4075.74 | 4075.77 | 4074.89 | 0.03 | 0.00 | -0.03 |
| | 517479 | 4042.34 | 4042.84 | 4043.86 | 0.00 | 1.01 | 0.00 | -1.01 |
| | 44681 | 4194.40 | 4194.90 | 4196.28 | 4196.24 | 1.38 | 1.33 | -0.04 |
| | 627762 | 4074.75 | 4075.25 | 4076.72 | 4075.48 | 1.48 | 0.23 | -1.25 |
| | 120862 | 4074.98 | 4075.48 | 4076.57 | 4075.36 | 1.09 | 0.00 | -1.09 |
| | 504590 | 4075.44 | 4075.94 | 4076.46 | 4075.23 | 0.52 | 0.00 | -0.52 |
| | 517348 | 4074.95 | 4075.45 | 4076.80 | 4075.55 | 1.36 | 0.11 | -1.25 |
| | 201341 | 4075.74 | 4076.24 | 4076.29 | 4075.14 | 0.04 | 0.00 | -0.04 |
| | 239344 | 4200.54 | 4201.04 | 4201.32 | 4201.32 | 0.29 | 0.28 | -0.01 |
| | 239663 | 4075.42 | 4075.92 | 4076.68 | 4075.42 | 0.76 | 0.00 | -0.76 |
| | 568242 | 4042.19 | 4042.69 | 4043.95 | 0.00 | 1.26 | 0.00 | -1.26 |
| | 299594 | 4075.24 | 4075.74 | 4076.53 | 4075.30 | 0.78 | 0.00 | -0.78 |
| | 606787 | 4073.48 | 4073.98 | 4076.07 | 4074.97 | 2.09 | 0.99 | -1.10 |
| | 120373 | 4074.76 | 4075.26 | 4076.61 | 4075.38 | 1.35 | 0.13 | -1.22 |
| | 654409 | 4075.39 | 4075.89 | 4076.71 | 4075.48 | 0.82 | 0.00 | -0.82 |
| | 670945 | 4074.34 | 4074.84 | 4076.03 | 4074.96 | 1.19 | 0.12 | -1.07 |
| | 320551 | 4075.39 | 4075.89 | 4076.80 | 4075.56 | 0.91 | 0.00 | -0.91 |
| | 517383 | 4073.90 | 4074.40 | 4076.08 | 4074.97 | 1.67 | 0.57 | -1.10 |
| | 529914 | 4075.81 | 4076.31 | 4076.43 | 4075.21 | 0.11 | 0.00 | -0.11 |
| | 627759 | 4075.38 | 4075.88 | 4076.78 | 4075.56 | 0.91 | 0.00 | -0.91 |
| | 504614 | 4073.63 | 4074.13 | 4076.07 | 4074.97 | 1.95 | 0.85 | -1.10 |
| | 542535 | 4201.60 | 4202.10 | 4202.34 | 4202.33 | 0.24 | 0.24 | -0.01 |
| | 201788 | 4074.89 | 4075.39 | 4075.80 | 4074.90 | 0.41 | 0.00 | -0.41 |
| | 120386 | 4075.24 | 4075.74 | 4076.12 | 4074.99 | 0.38 | 0.00 | -0.38 |
| | 73411 | 4201.31 | 4201.81 | 4202.20 | 4202.18 | 0.39 | 0.38 | -0.01 |
| | 670941 | 4073.87 | 4074.37 | 4076.07 | 4074.97 | 1.69 | 0.60 | -1.09 |
| | 201656 | 4075.41 | 4075.91 | 4076.09 | 4074.98 | 0.18 | 0.00 | -0.18 |
| | 282424 | 4074.73 | 4075.23 | 4076.06 | 4074.97 | 0.83 | 0.00 | -0.83 |
| | 670919 | 4075.57 | 4076.07 | 4076.53 | 4075.31 | 0.46 | 0.00 | -0.46 |
| | 373637 | 4075.44 | 4075.94 | 4076.55 | 4075.33 | 0.60 | 0.00 | -0.60 |
| | 282613 | 4042.14 | 4042.64 | 4043.92 | 0.00 | 1.28 | 0.00 | -1.28 |
| 563429 | 4074.57 | 4075.07 | 4076.07 | 4074.97 | 1.00 | 0.00 | -1.00 | |
| 163408 | 4074.62 | 4075.12 | 4076.08 | 4074.97 | 0.96 | 0.00 | -0.96 | |
| 542632 | 4074.70 | 4075.20 | 4076.07 | 4074.97 | 0.87 | 0.00 | -0.87 | |
| 282420 | 4074.53 | 4075.03 | 4076.07 | 4074.97 | 1.04 | 0.00 | -1.04 | |
| 448728 | 4074.49 | 4074.99 | 4076.07 | 4074.97 | 1.08 | 0.00 | -1.08 | |
| 529943 | 4074.69 | 4075.19 | 4076.07 | 4074.97 | 0.88 | 0.00 | -0.88 | |
| 346256 | 4075.45 | 4075.95 | 4076.12 | 4074.99 | 0.17 | 0.00 | -0.17 | |
| 346376 | 4075.14 | 4075.64 | 4076.10 | 4074.98 | 0.46 | 0.00 | -0.46 | |
| 162648 | 4075.93 | 4076.43 | 4077.05 | 4075.98 | 0.62 | 0.00 | -0.62 | |
| 627791 | 4074.38 | 4074.88 | 4076.07 | 4074.97 | 1.19 | 0.09 | -1.10 | |
| 320565 | 4075.73 | 4076.23 | 4076.54 | 0.00 | 0.31 | 0.00 | -0.31 | |
| 517384 | 4074.66 | 4075.16 | 4076.07 | 4074.97 | 0.91 | 0.00 | -0.91 | |
| 397449 | 4076.38 | 4076.88 | 4077.11 | 4076.12 | 0.22 | 0.00 | -0.22 | |
| 589064 | 4075.69 | 4076.19 | 4076.66 | 4075.43 | 0.46 | 0.00 | -0.46 | |
| 529906 | 4075.50 | 4076.00 | 4076.85 | 4075.62 | 0.86 | 0.00 | -0.86 | |
| 423281 | 4075.58 | 4076.08 | 4076.62 | 4075.40 | 0.54 | 0.00 | -0.54 | |
| 670932 | 4075.57 | 4076.07 | 4076.13 | 4074.99 | 0.05 | 0.00 | -0.05 | |
| 201205 | 4040.88 | 4041.38 | 4042.36 | 0.00 | 0.98 | 0.00 | -0.98 | |
| 201657 | 4074.63 | 4075.13 | 4076.08 | 4074.97 | 0.95 | 0.00 | -0.95 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 73335 | 4075.05 | 4075.55 | 4076.07 | 4074.97 | 0.52 | 0.00 | -0.52 |
| | 202117 | 4043.10 | 4043.60 | 4044.19 | 0.00 | 0.59 | 0.00 | -0.59 |
| | 121209 | 4043.86 | 4044.36 | 4044.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 589080 | 4074.89 | 4075.39 | 4076.08 | 4074.95 | 0.69 | 0.00 | -0.69 |
| | 1908 | 4075.25 | 4075.75 | 4076.09 | 0.00 | 0.34 | 0.00 | -0.34 |
| | 73479 | 4041.45 | 4041.95 | 4042.34 | 0.00 | 0.39 | 0.00 | -0.39 |
| | 162728 | 4075.40 | 4075.90 | 4076.07 | 0.00 | 0.17 | 0.00 | -0.17 |
| | 397486 | 4074.82 | 4075.32 | 4076.07 | 4074.96 | 0.75 | 0.00 | -0.75 |
| | 27317 | 4075.06 | 4075.56 | 4076.07 | 4074.96 | 0.52 | 0.00 | -0.52 |
| | 27746 | 4075.42 | 4075.92 | 4076.74 | 4075.52 | 0.83 | 0.00 | -0.83 |
| | 320579 | 4074.87 | 4075.37 | 4076.08 | 4074.95 | 0.71 | 0.00 | -0.71 |
| | 346385 | 4074.65 | 4075.15 | 4076.07 | 4074.95 | 0.93 | 0.00 | -0.93 |
| | 654417 | 4075.86 | 4076.36 | 4076.69 | 4075.43 | 0.33 | 0.00 | -0.33 |
| | 163275 | 4076.50 | 4077.00 | 4077.69 | 4076.88 | 0.69 | 0.00 | -0.69 |
| | 449060 | 4075.33 | 4075.83 | 4076.88 | 4075.78 | 1.06 | 0.00 | -1.06 |
| | 239224 | 4219.57 | 4220.07 | 4220.16 | 4220.16 | 0.09 | 0.09 | 0.00 |
| | 201069 | 4076.69 | 4077.19 | 4077.76 | 4076.92 | 0.58 | 0.00 | -0.58 |
| | 201080 | 4077.03 | 4077.53 | 4077.70 | 4076.90 | 0.17 | 0.00 | -0.17 |
| | 73929 | 4076.83 | 4077.33 | 4077.46 | 0.00 | 0.13 | 0.00 | -0.13 |
| | 44756 | 4076.26 | 4076.76 | 4077.44 | 4076.74 | 0.68 | 0.00 | -0.68 |
| | 517343 | 4075.21 | 4075.71 | 4077.81 | 4076.94 | 2.10 | 1.23 | -0.87 |
| | 4866045 | 4207.55 | 4208.05 | 4208.87 | 4208.62 | 0.82 | 0.57 | -0.25 |
| | 474499 | 4210.98 | 4211.48 | 4211.91 | 4211.88 | 0.43 | 0.40 | -0.03 |
| | 4866046 | 4210.60 | 4211.10 | 4211.78 | 4211.74 | 0.68 | 0.65 | -0.03 |
| | 239304 | 4075.58 | 4076.08 | 4077.77 | 4076.90 | 1.69 | 0.81 | -0.88 |
| | 239516 | 4323.87 | 4324.37 | 4324.67 | 4324.67 | 0.30 | 0.30 | 0.00 |
| | 120237 | 4083.41 | 4083.91 | 4084.51 | 4083.11 | 0.60 | 0.00 | -0.60 |
| | 119745 | 4379.88 | 4380.38 | 4381.22 | 4381.22 | 0.84 | 0.84 | 0.00 |
| | 627758 | 4076.71 | 4077.21 | 4077.87 | 4076.90 | 0.66 | 0.00 | -0.66 |
| | 448670 | 4083.26 | 4083.76 | 4084.53 | 4083.15 | 0.77 | 0.00 | -0.77 |
| | 654286 | 4084.03 | 4084.53 | 4084.66 | 4083.21 | 0.13 | 0.00 | -0.13 |
| | 423455 | 4084.02 | 4084.52 | 4084.62 | 4083.16 | 0.09 | 0.00 | -0.09 |
| | 4866047 | 4219.33 | 4219.83 | 4220.86 | 4220.62 | 1.03 | 0.79 | -0.24 |
| | 27234 | 4216.58 | 4217.08 | 4218.06 | 4218.03 | 0.98 | 0.96 | -0.02 |
| | 589059 | 4076.69 | 4077.19 | 4077.67 | 4076.85 | 0.48 | 0.00 | -0.48 |
| | 474397 | 4076.89 | 4077.39 | 4078.21 | 4077.44 | 0.83 | 0.06 | -0.77 |
| | 320521 | 4084.56 | 4085.06 | 4085.41 | 4083.96 | 0.35 | 0.00 | -0.35 |
| | 423273 | 4076.14 | 4076.64 | 4078.11 | 4077.03 | 1.47 | 0.39 | -1.08 |
| | 320513 | 4084.67 | 4085.17 | 4085.97 | 4084.43 | 0.80 | 0.00 | -0.80 |
| | 120861 | 4076.45 | 4076.95 | 4077.54 | 4076.76 | 0.58 | 0.00 | -0.58 |
| | 504542 | 4085.66 | 4086.16 | 4086.23 | 4084.69 | 0.07 | 0.00 | -0.07 |
| | 606740 | 4085.43 | 4085.93 | 4086.39 | 4084.84 | 0.46 | 0.00 | -0.46 |
| | 654287 | 4085.40 | 4085.90 | 4086.59 | 4085.31 | 0.69 | 0.00 | -0.69 |
| | 504594 | 4076.62 | 4077.12 | 4077.35 | 4076.61 | 0.23 | 0.00 | -0.23 |
| | 491740 | 4086.46 | 4086.96 | 4087.54 | 4086.14 | 0.58 | 0.00 | -0.58 |
| | 397369 | 4338.77 | 4339.27 | 4341.63 | 4341.63 | 2.37 | 2.37 | 0.00 |
| | 120634 | 4084.08 | 4084.58 | 4084.72 | 4083.94 | 0.13 | 0.00 | -0.13 |
| | 1868 | 4084.42 | 4084.92 | 4085.21 | 4084.28 | 0.30 | 0.00 | -0.30 |
| | 321280 | 4085.72 | 4086.22 | 4086.56 | 4085.60 | 0.33 | 0.00 | -0.33 |
| | 589049 | 4086.54 | 4087.04 | 4087.08 | 4086.38 | 0.04 | 0.00 | -0.04 |
| 1827 | 4098.20 | 4098.70 | 4098.76 | 4098.26 | 0.06 | 0.00 | -0.06 | |
| 448633 | 4500.15 | 4500.65 | 4503.37 | 4503.37 | 2.73 | 2.73 | 0.00 | |
| 517299 | 4100.46 | 4100.96 | 4101.67 | 4101.12 | 0.71 | 0.17 | -0.54 | |
| 653394 | 4101.25 | 4101.75 | 4102.54 | 4102.24 | 0.79 | 0.50 | -0.30 | |
| 163300 | 4028.55 | 4029.05 | 4030.14 | 0.00 | 1.09 | 0.00 | -1.09 | |
| 201211 | 4047.14 | 4047.64 | 4048.90 | 4048.41 | 1.25 | 0.77 | -0.49 | |
| 504532 | 4099.42 | 4099.92 | 4100.36 | 4099.81 | 0.44 | 0.00 | -0.44 | |
| 202763 | 4039.13 | 4039.63 | 4041.75 | 4041.43 | 2.12 | 1.80 | -0.32 | |
| 163108 | 4035.85 | 4036.35 | 4038.63 | 4038.52 | 2.29 | 2.18 | -0.11 | |
| 202763 | 4039.13 | 4039.63 | 4041.75 | 4041.43 | 2.12 | 1.80 | -0.32 | |
| 299738 | 4045.38 | 4045.88 | 4046.93 | 0.00 | 1.06 | 0.00 | -1.06 | |
| 671140 | 4039.10 | 4039.60 | 4041.35 | 4041.03 | 1.75 | 1.42 | -0.33 | |
| 397599 | 4046.50 | 4047.00 | 4048.70 | 0.00 | 1.71 | 0.00 | -1.71 | |
| 44922 | 4042.40 | 4042.90 | 4043.81 | 4043.33 | 0.92 | 0.43 | -0.48 | |
| 654838 | 4043.68 | 4044.18 | 4046.93 | 4045.35 | 2.75 | 1.18 | -1.58 | |
| 654953 | 4038.88 | 4039.38 | 4041.36 | 4041.03 | 1.97 | 1.64 | -0.33 | |
| 73510 | 4043.81 | 4044.31 | 4046.93 | 4045.35 | 2.62 | 1.05 | -1.58 | |
| 44972 | 4033.56 | 4034.06 | 4034.92 | 4034.34 | 0.86 | 0.28 | -0.58 | |
| 202001 | 4029.19 | 4029.69 | 4031.36 | 0.00 | 1.67 | 0.00 | -1.67 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 74682 | 4036.58 | 4037.08 | 4038.45 | 4038.33 | 1.36 | 1.24 | -0.12 |
| | 239532 | 4042.20 | 4042.70 | 4043.29 | 4042.91 | 0.59 | 0.21 | -0.37 |
| | 261502 | 4044.44 | 4044.94 | 4046.93 | 0.00 | 1.98 | 0.00 | -1.98 |
| | 121478 | 4048.64 | 4049.14 | 4050.71 | 4049.95 | 1.57 | 0.81 | -0.76 |
| | 449640 | 4039.11 | 4039.61 | 4041.37 | 4041.03 | 1.76 | 1.42 | -0.34 |
| | 74348 | 4043.32 | 4043.82 | 4045.01 | 0.00 | 1.19 | 0.00 | -1.19 |
| | 475168 | 4043.90 | 4044.40 | 4045.57 | 4044.99 | 1.17 | 0.59 | -0.58 |
| | 241035 | 4048.46 | 4048.96 | 4049.72 | 0.00 | 0.75 | 0.00 | -0.75 |
| | 589247 | 4040.60 | 4041.10 | 4041.65 | 0.00 | 0.55 | 0.00 | -0.55 |
| | 28144 | 4042.90 | 4043.40 | 4045.45 | 4044.94 | 2.05 | 1.54 | -0.51 |
| | 74381 | 4039.15 | 4039.65 | 4041.12 | 4040.91 | 1.47 | 1.27 | -0.21 |
| | 449650 | 4039.40 | 4039.90 | 4041.34 | 4041.09 | 1.44 | 1.18 | -0.25 |
| | 632240 | 4039.30 | 4039.80 | 4041.34 | 4041.09 | 1.54 | 1.29 | -0.25 |
| | 397644 | 4043.23 | 4043.73 | 4045.54 | 4044.96 | 1.81 | 1.23 | -0.57 |
| | 162911 | 4048.96 | 4049.46 | 4049.96 | 0.00 | 0.49 | 0.00 | -0.49 |
| | 119672 | 4043.17 | 4043.67 | 4045.61 | 4045.00 | 1.94 | 1.33 | -0.61 |
| | 398370 | 4028.16 | 4028.66 | 4029.76 | 4029.51 | 1.10 | 0.85 | -0.25 |
| | 321655 | 4043.98 | 4044.48 | 4045.56 | 4044.96 | 1.08 | 0.48 | -0.60 |
| | 449672 | 4030.85 | 4031.35 | 4031.47 | 4031.23 | 0.12 | 0.00 | -0.12 |
| | 261567 | 4037.43 | 4037.93 | 4039.28 | 4038.85 | 1.35 | 0.92 | -0.43 |
| | 299710 | 4048.90 | 4049.40 | 4050.11 | 0.00 | 0.71 | 0.00 | -0.71 |
| | 632250 | 4035.05 | 4035.55 | 4036.64 | 4036.33 | 1.09 | 0.79 | -0.31 |
| | 448874 | 4043.00 | 4043.50 | 4045.55 | 4045.00 | 2.05 | 1.49 | -0.56 |
| | 474581 | 4046.03 | 4046.53 | 4047.55 | 4047.14 | 1.01 | 0.61 | -0.40 |
| | 606929 | 4045.26 | 4045.76 | 4046.19 | 4045.87 | 0.43 | 0.11 | -0.32 |
| | 654969 | 4038.88 | 4039.38 | 4040.83 | 4040.52 | 1.45 | 1.14 | -0.31 |
| | 606872 | 4047.18 | 4047.68 | 4050.73 | 4049.95 | 3.05 | 2.27 | -0.78 |
| | 321875 | 4038.86 | 4039.36 | 4039.93 | 4039.57 | 0.57 | 0.21 | -0.36 |
| | 239484 | 4045.85 | 4046.35 | 4047.66 | 4047.20 | 1.31 | 0.85 | -0.45 |
| | 373941 | 4048.05 | 4048.55 | 4050.22 | 0.00 | 1.67 | 0.00 | -1.67 |
| | 449393 | 4051.59 | 4052.09 | 4052.94 | 4052.97 | 0.72 | 0.72 | 0.00 |
| | 321631 | 4047.25 | 4047.75 | 4048.19 | 0.00 | 0.44 | 0.00 | -0.44 |
| | 424030 | 4043.38 | 4043.88 | 4045.61 | 4045.09 | 1.73 | 1.21 | -0.52 |
| | 163172 | 4044.86 | 4045.36 | 4045.64 | 0.00 | 0.28 | 0.00 | -0.28 |
| | 74526 | 4040.19 | 4040.69 | 4041.79 | 4041.58 | 1.10 | 0.89 | -0.21 |
| | 201292 | 4044.40 | 4044.90 | 4045.63 | 4045.11 | 0.74 | 0.21 | -0.52 |
| | 163031 | 4047.92 | 4048.42 | 4050.74 | 4049.95 | 2.31 | 1.52 | -0.79 |
| | 2086 | 4039.44 | 4039.94 | 4041.96 | 4041.64 | 2.03 | 1.70 | -0.32 |
| | 27491 | 4042.14 | 4042.64 | 4043.11 | 4042.89 | 0.47 | 0.25 | -0.22 |
| | 321659 | 4043.33 | 4043.83 | 4045.78 | 0.00 | 1.95 | 0.00 | -1.95 |
| | 671100 | 4043.67 | 4044.17 | 4045.90 | 4045.32 | 1.73 | 1.15 | -0.58 |
| | 632182 | 4046.33 | 4046.83 | 4048.04 | 4047.54 | 1.20 | 0.70 | -0.50 |
| | 74322 | 4047.96 | 4048.46 | 4050.73 | 4049.95 | 2.28 | 1.49 | -0.79 |
| | 492008 | 4038.34 | 4038.84 | 4038.88 | 0.00 | 0.05 | 0.00 | -0.05 |
| | 121483 | 4047.88 | 4048.38 | 4050.75 | 4049.95 | 2.37 | 1.57 | -0.80 |
| | 121099 | 4043.93 | 4044.43 | 4045.77 | 4045.19 | 1.35 | 0.76 | -0.59 |
| | 74332 | 4043.94 | 4044.44 | 4045.78 | 4045.19 | 1.34 | 0.75 | -0.59 |
| | 654835 | 4047.77 | 4048.27 | 4049.37 | 4048.81 | 1.10 | 0.53 | -0.56 |
| | 74517 | 4040.99 | 4041.49 | 4042.21 | 4041.77 | 0.72 | 0.29 | -0.43 |
| | 589226 | 4044.04 | 4044.54 | 4045.78 | 4045.19 | 1.24 | 0.65 | -0.59 |
| | 475019 | 4069.96 | 4070.46 | 4071.47 | 4070.53 | 1.00 | 0.07 | -0.94 |
| | 320623 | 4073.98 | 4074.48 | 4075.00 | 4074.40 | 0.53 | 0.00 | -0.53 |
| | 654628 | 4073.32 | 4073.82 | 4074.40 | 4073.72 | 0.59 | 0.00 | -0.59 |
| | 121443 | 4044.56 | 4045.06 | 4045.78 | 0.00 | 0.72 | 0.00 | -0.72 |
| | 239847 | 4073.34 | 4073.84 | 4074.02 | 4073.40 | 0.18 | 0.00 | -0.18 |
| | 1955 | 4072.10 | 4072.60 | 4073.14 | 4072.70 | 0.54 | 0.09 | -0.44 |
| 670978 | 4074.01 | 4074.51 | 4075.54 | 4074.70 | 1.02 | 0.19 | -0.84 | |
| 320622 | 4072.77 | 4073.27 | 4075.37 | 4074.64 | 2.10 | 1.36 | -0.74 | |
| 654981 | 4037.79 | 4038.29 | 4038.78 | 0.00 | 0.49 | 0.00 | -0.49 | |
| 299756 | 4044.74 | 4045.24 | 4045.80 | 4045.23 | 0.56 | 0.00 | -0.56 | |
| 44816 | 4072.25 | 4072.75 | 4073.05 | 4072.68 | 0.31 | 0.00 | -0.31 | |
| 164168 | 4041.91 | 4042.41 | 4042.70 | 4042.22 | 0.28 | 0.00 | -0.28 | |
| 632185 | 4046.63 | 4047.13 | 4047.94 | 4047.60 | 0.81 | 0.47 | -0.34 | |
| 320630 | 4073.13 | 4073.63 | 4073.98 | 4073.39 | 0.35 | 0.00 | -0.35 | |
| 74118 | 4073.37 | 4073.87 | 4074.98 | 4074.19 | 1.11 | 0.32 | -0.79 | |
| 162948 | 4073.44 | 4073.94 | 4074.41 | 4073.87 | 0.46 | 0.00 | -0.46 | |
| 346542 | 4069.55 | 4070.05 | 4071.41 | 4070.47 | 1.36 | 0.42 | -0.94 | |
| 491932 | 4048.25 | 4048.75 | 4049.44 | 0.00 | 0.69 | 0.00 | -0.69 | |
| 563608 | 4044.73 | 4045.23 | 4045.74 | 4045.60 | 0.50 | 0.36 | -0.14 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 593179 | 4074.18 | 4074.68 | 4075.10 | 4074.35 | 0.42 | 0.00 | -0.42 |
| | 121481 | 4051.92 | 4052.42 | 4053.98 | 0.00 | 1.56 | 0.00 | -1.56 |
| | 504741 | 4047.19 | 4047.69 | 4049.52 | 4049.05 | 1.83 | 1.36 | -0.47 |
| | 397546 | 4069.41 | 4069.91 | 4071.37 | 4070.46 | 1.46 | 0.56 | -0.91 |
| | 346521 | 4047.42 | 4047.92 | 4049.60 | 4049.12 | 1.68 | 1.20 | -0.48 |
| | 27880 | 4073.97 | 4074.47 | 4074.56 | 0.00 | 0.09 | 0.00 | -0.09 |
| | 397931 | 4074.17 | 4074.67 | 4074.75 | 4074.09 | 0.08 | 0.00 | -0.08 |
| | 121520 | 4047.21 | 4047.71 | 4048.37 | 4047.95 | 0.65 | 0.23 | -0.42 |
| | 163051 | 4047.85 | 4048.35 | 4049.92 | 4049.35 | 1.57 | 1.01 | -0.56 |
| | 163003 | 4045.75 | 4046.25 | 4046.42 | 0.00 | 0.17 | 0.00 | -0.17 |
| | 162952 | 4069.89 | 4070.39 | 4071.40 | 4070.47 | 1.01 | 0.08 | -0.93 |
| | 589197 | 4047.11 | 4047.61 | 4049.91 | 4049.36 | 2.30 | 1.74 | -0.55 |
| | 239382 | 4074.15 | 4074.65 | 4074.84 | 4074.20 | 0.19 | 0.00 | -0.19 |
| | 671084 | 4047.64 | 4048.14 | 4049.45 | 4049.02 | 1.32 | 0.88 | -0.44 |
| | 121085 | 4047.63 | 4048.13 | 4049.70 | 4049.19 | 1.57 | 1.07 | -0.50 |
| | 475268 | 4042.31 | 4042.81 | 4043.28 | 4042.97 | 0.48 | 0.16 | -0.31 |
| | 491864 | 4069.97 | 4070.47 | 4071.37 | 4070.47 | 0.91 | 0.00 | -0.90 |
| | 449550 | 4044.58 | 4045.08 | 4046.54 | 4046.13 | 1.46 | 1.05 | -0.41 |
| | 27879 | 4073.50 | 4074.00 | 4074.10 | 4073.49 | 0.10 | 0.00 | -0.10 |
| | 397539 | 4072.17 | 4072.67 | 4073.35 | 4072.65 | 0.67 | 0.00 | -0.67 |
| | 240118 | 4048.11 | 4048.61 | 4049.59 | 4049.08 | 0.98 | 0.47 | -0.51 |
| | 423350 | 4071.63 | 4072.13 | 4073.03 | 4072.11 | 0.91 | 0.00 | -0.91 |
| | 589131 | 4070.01 | 4070.51 | 4071.38 | 4070.48 | 0.87 | 0.00 | -0.87 |
| | 346141 | 4112.70 | 4113.20 | 4114.07 | 4113.37 | 0.88 | 0.17 | -0.71 |
| | 2089 | 4111.43 | 4111.93 | 4111.95 | 4111.22 | 0.02 | 0.00 | -0.02 |
| | 121285 | 4070.23 | 4070.73 | 4071.46 | 4070.64 | 0.73 | 0.00 | -0.73 |
| | 44983 | 4034.49 | 4034.99 | 4035.49 | 4034.90 | 0.51 | 0.00 | -0.51 |
| | 449525 | 4047.78 | 4048.28 | 4049.31 | 0.00 | 1.03 | 0.00 | -1.03 |
| | 163950 | 4048.34 | 4048.84 | 4049.95 | 4049.47 | 1.11 | 0.63 | -0.47 |
| | 653518 | 4071.69 | 4072.19 | 4073.53 | 4072.81 | 1.35 | 0.62 | -0.73 |
| | 542671 | 4071.63 | 4072.13 | 4072.90 | 4072.11 | 0.76 | 0.00 | -0.76 |
| | 474493 | 4071.69 | 4072.19 | 4073.16 | 4072.31 | 0.97 | 0.13 | -0.85 |
| | 321509 | 4060.60 | 4061.10 | 4061.48 | 4061.00 | 0.38 | 0.00 | -0.38 |
| | 423432 | 4109.34 | 4109.84 | 4110.84 | 4109.99 | 1.00 | 0.15 | -0.85 |
| | 2117 | 4035.63 | 4036.13 | 4036.32 | 4036.17 | 0.19 | 0.04 | -0.15 |
| | 606906 | 4048.22 | 4048.72 | 4050.19 | 4049.78 | 1.47 | 1.05 | -0.42 |
| | 119553 | 4073.43 | 4073.93 | 4074.71 | 4074.17 | 0.78 | 0.23 | -0.55 |
| | 74325 | 4046.37 | 4046.87 | 4048.82 | 0.00 | 1.94 | 0.00 | -1.94 |
| | 653523 | 4070.98 | 4071.48 | 4072.80 | 4072.05 | 1.32 | 0.57 | -0.75 |
| | 201397 | 4112.06 | 4112.56 | 4113.50 | 4112.83 | 0.94 | 0.27 | -0.68 |
| | 492006 | 4039.88 | 4040.38 | 4041.43 | 0.00 | 1.04 | 0.00 | -1.04 |
| | 201987 | 4041.51 | 4042.01 | 4043.11 | 4042.76 | 1.10 | 0.75 | -0.35 |
| | 240140 | 4043.63 | 4044.13 | 4046.95 | 4046.48 | 2.82 | 2.36 | -0.46 |
| | 397649 | 4043.70 | 4044.20 | 4046.89 | 4046.47 | 2.69 | 2.27 | -0.42 |
| | 474494 | 4072.02 | 4072.52 | 4072.95 | 4072.15 | 0.43 | 0.00 | -0.43 |
| | 589119 | 4070.79 | 4071.29 | 4072.80 | 4072.06 | 1.51 | 0.77 | -0.75 |
| | 162578 | 4111.18 | 4111.68 | 4113.14 | 4112.38 | 1.46 | 0.70 | -0.76 |
| | 299557 | 4112.94 | 4113.44 | 4114.98 | 4114.21 | 1.54 | 0.77 | -0.77 |
| | 653593 | 4047.16 | 4047.66 | 4049.91 | 0.00 | 2.25 | 0.00 | -2.25 |
| | 239241 | 4114.60 | 4115.10 | 4116.56 | 4115.75 | 1.46 | 0.65 | -0.80 |
| | 397622 | 4047.06 | 4047.56 | 4049.82 | 4049.39 | 2.26 | 1.84 | -0.43 |
| | 282512 | 4072.13 | 4072.63 | 4073.06 | 4072.34 | 0.44 | 0.00 | -0.44 |
| | 627846 | 4072.25 | 4072.75 | 4072.82 | 4072.06 | 0.06 | 0.00 | -0.06 |
| | 448644 | 4112.38 | 4112.88 | 4114.39 | 4113.67 | 1.51 | 0.79 | -0.71 |
| | 240815 | 4071.56 | 4072.06 | 4073.30 | 4072.60 | 1.23 | 0.53 | -0.70 |
| | 202758 | 4043.43 | 4043.93 | 4046.74 | 4046.39 | 2.81 | 2.46 | -0.35 |
| | 654202 | 4111.75 | 4112.25 | 4113.48 | 4112.61 | 1.23 | 0.36 | -0.88 |
| | 240816 | 4072.50 | 4073.00 | 4073.22 | 4072.54 | 0.22 | 0.00 | -0.22 |
| | 606965 | 4045.69 | 4046.19 | 4046.45 | 0.00 | 0.26 | 0.00 | -0.26 |
| 627919 | 4048.79 | 4049.29 | 4051.01 | 4050.68 | 1.72 | 1.39 | -0.33 | |
| 239574 | 4111.14 | 4111.64 | 4111.93 | 4111.28 | 0.29 | 0.00 | -0.29 | |
| 671065 | 4047.52 | 4048.02 | 4052.42 | 4051.97 | 4.40 | 3.95 | -0.46 | |
| 474351 | 4113.89 | 4114.39 | 4115.27 | 4114.57 | 0.88 | 0.18 | -0.70 | |
| 241401 | 4045.42 | 4045.92 | 4046.39 | 0.00 | 0.48 | 0.00 | -0.48 | |
| 119645 | 4049.93 | 4050.43 | 4052.71 | 4052.19 | 2.28 | 1.76 | -0.52 | |
| 282389 | 4049.26 | 4049.76 | 4052.76 | 4052.23 | 3.01 | 2.47 | -0.54 | |
| 201161 | 4114.89 | 4115.39 | 4117.19 | 4116.42 | 1.80 | 1.03 | -0.77 | |
| 654950 | 4045.61 | 4046.11 | 4046.43 | 4046.01 | 0.31 | 0.00 | -0.31 | |
| 593001 | 4115.93 | 4116.43 | 4117.71 | 4116.98 | 1.28 | 0.55 | -0.73 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 120900 | 4053.56 | 4054.06 | 4054.43 | 4053.83 | 0.37 | 0.00 | -0.37 |
| | 449286 | 4061.91 | 4062.41 | 4063.76 | 4063.30 | 1.35 | 0.89 | -0.45 |
| | 2448 | 4059.86 | 4060.36 | 4060.76 | 4060.24 | 0.40 | 0.00 | -0.40 |
| | 517497 | 4050.44 | 4050.94 | 4053.43 | 0.00 | 2.49 | 0.00 | -2.49 |
| | 568068 | 4119.93 | 4120.43 | 4121.72 | 4120.89 | 1.29 | 0.46 | -0.83 |
| | 346344 | 4061.19 | 4061.69 | 4062.03 | 4061.75 | 0.34 | 0.07 | -0.27 |
| | 474518 | 4057.96 | 4058.46 | 4060.50 | 4060.01 | 2.03 | 1.55 | -0.49 |
| | 119631 | 4051.21 | 4051.71 | 4054.22 | 4053.72 | 2.51 | 2.00 | -0.51 |
| | 2013 | 4052.49 | 4052.99 | 4054.27 | 4053.74 | 1.28 | 0.75 | -0.53 |
| | 530069 | 4053.31 | 4053.81 | 4054.29 | 0.00 | 0.48 | 0.00 | -0.48 |
| | 530064 | 4052.10 | 4052.60 | 4054.34 | 4053.77 | 1.74 | 1.17 | -0.57 |
| | 563544 | 4053.66 | 4054.16 | 4055.07 | 4054.82 | 0.91 | 0.66 | -0.25 |
| | 530053 | 4054.27 | 4054.77 | 4055.46 | 4055.24 | 0.69 | 0.47 | -0.22 |
| | 28029 | 4053.31 | 4053.81 | 4055.62 | 4055.36 | 1.81 | 1.55 | -0.26 |
| | 163059 | 4054.41 | 4054.91 | 4055.90 | 4055.53 | 0.99 | 0.62 | -0.37 |
| | 373933 | 4054.00 | 4054.50 | 4056.45 | 4056.11 | 1.96 | 1.62 | -0.34 |
| | 372056 | 4054.81 | 4055.31 | 4056.42 | 4056.09 | 1.12 | 0.79 | -0.33 |
| | 2574 | 4052.13 | 4052.63 | 4056.39 | 0.00 | 3.76 | 0.00 | -3.76 |
| | 632109 | 4056.89 | 4057.39 | 4058.12 | 0.00 | 0.73 | 0.00 | -0.73 |
| | 120896 | 4056.07 | 4056.57 | 4057.53 | 0.00 | 0.97 | 0.00 | -0.97 |
| | 563509 | 4056.92 | 4057.42 | 4058.11 | 0.00 | 0.70 | 0.00 | -0.70 |
| | 239865 | 4057.14 | 4057.64 | 4058.44 | 4058.43 | 0.80 | 0.79 | 0.00 |
| | 27894 | 4057.27 | 4057.77 | 4058.55 | 4058.54 | 0.78 | 0.78 | 0.00 |
| | 346346 | 4057.70 | 4058.20 | 4058.37 | 4058.37 | 0.17 | 0.16 | 0.00 |
| | 568067 | 4140.18 | 4140.68 | 4140.97 | 4140.49 | 0.28 | 0.00 | -0.28 |
| | 239404 | 4057.27 | 4057.77 | 4058.10 | 4058.09 | 0.33 | 0.33 | 0.00 |
| | 282541 | 4054.46 | 4054.96 | 4056.54 | 4056.34 | 1.59 | 1.38 | -0.21 |
| | 27387 | 4055.21 | 4055.71 | 4056.60 | 4056.56 | 0.89 | 0.84 | -0.04 |
| | 475029 | 4054.28 | 4054.78 | 4056.54 | 4056.37 | 1.76 | 1.59 | -0.17 |
| | 163018 | 4053.99 | 4054.49 | 4056.54 | 4056.34 | 2.06 | 1.85 | -0.21 |
| | 346561 | 4053.07 | 4053.57 | 4056.54 | 4056.34 | 2.98 | 2.77 | -0.21 |
| | 163724 | 4055.72 | 4056.22 | 4056.54 | 0.00 | 0.33 | 0.00 | -0.33 |
| | 449280 | 4062.11 | 4062.61 | 4063.53 | 4063.53 | 0.92 | 0.92 | 0.00 |
| | 448811 | 4053.97 | 4054.47 | 4056.54 | 4056.34 | 2.07 | 1.87 | -0.21 |
| | 589125 | 4062.58 | 4063.08 | 4063.51 | 4063.51 | 0.43 | 0.43 | 0.00 |
| | 653524 | 4062.15 | 4062.65 | 4063.58 | 4063.58 | 0.93 | 0.93 | 0.00 |
| | 504659 | 4058.27 | 4058.77 | 4059.50 | 4059.50 | 0.72 | 0.72 | 0.00 |
| | 201175 | 4055.44 | 4055.94 | 4056.54 | 0.00 | 0.60 | 0.00 | -0.60 |
| | 448810 | 4055.44 | 4055.94 | 4056.54 | 0.00 | 0.61 | 0.00 | -0.61 |
| | 632067 | 4063.37 | 4063.87 | 4063.96 | 4063.96 | 0.10 | 0.09 | 0.00 |
| | 448796 | 4057.33 | 4057.83 | 4059.00 | 4059.00 | 1.16 | 1.16 | 0.00 |
| | 397557 | 4057.65 | 4058.15 | 4059.87 | 4059.87 | 1.72 | 1.72 | 0.00 |
| | 542834 | 4047.70 | 4048.20 | 4048.34 | 4048.33 | 0.14 | 0.13 | -0.02 |
| | 372006 | 4061.31 | 4061.81 | 4061.84 | 4061.84 | 0.03 | 0.03 | 0.00 |
| | 201550 | 4061.43 | 4061.93 | 4062.85 | 4062.85 | 0.93 | 0.93 | 0.00 |
| | 121293 | 4057.19 | 4057.69 | 4059.46 | 4059.46 | 1.77 | 1.77 | 0.00 |
| | 282533 | 4056.50 | 4057.00 | 4058.54 | 4058.54 | 1.54 | 1.54 | 0.00 |
| | 299671 | 4059.57 | 4060.07 | 4061.43 | 4061.43 | 1.36 | 1.36 | 0.00 |
| | 27288 | 4108.56 | 4109.06 | 4109.23 | 4109.23 | 0.17 | 0.17 | 0.00 |
| | 372003 | 4061.72 | 4062.22 | 4062.41 | 4062.41 | 0.19 | 0.19 | 0.00 |
| 121024 | 4058.17 | 4058.67 | 4058.87 | 4058.87 | 0.20 | 0.20 | 0.00 | |
| 201541 | 4062.75 | 4063.25 | 4064.29 | 4064.29 | 1.04 | 1.04 | 0.00 | |
| 162820 | 4054.59 | 4055.09 | 4056.84 | 4056.84 | 1.75 | 1.75 | 0.00 | |
| 372023 | 4050.17 | 4050.67 | 4056.23 | 4056.21 | 5.56 | 5.55 | -0.02 | |
| 121019 | 4059.79 | 4060.29 | 4061.08 | 4061.08 | 0.79 | 0.79 | 0.00 | |
| 423382 | 4049.77 | 4050.27 | 4056.23 | 4056.21 | 5.96 | 5.94 | -0.02 | |
| 397532 | 4069.34 | 4069.84 | 4070.24 | 4070.24 | 0.40 | 0.40 | 0.00 | |
| 299672 | 4059.17 | 4059.67 | 4060.08 | 4060.08 | 0.41 | 0.41 | 0.00 | |
| 653526 | 4060.04 | 4060.54 | 4061.27 | 4061.27 | 0.73 | 0.73 | 0.00 | |
| 568340 | 4051.20 | 4051.70 | 4052.05 | 4052.02 | 0.35 | 0.32 | -0.03 | |
| 74510 | 4054.68 | 4055.18 | 4056.22 | 4056.21 | 1.04 | 1.03 | -0.02 | |
| 120341 | 4136.35 | 4136.85 | 4137.16 | 4137.16 | 0.31 | 0.31 | 0.00 | |
| 241398 | 4052.35 | 4052.85 | 4053.23 | 4053.22 | 0.38 | 0.37 | -0.01 | |
| 448938 | 4050.65 | 4051.15 | 4052.05 | 4052.02 | 0.90 | 0.87 | -0.03 | |
| 239873 | 4052.56 | 4053.06 | 4056.23 | 4056.21 | 3.17 | 3.15 | -0.02 | |
| 239870 | 4053.21 | 4053.71 | 4056.23 | 4056.21 | 2.52 | 2.50 | -0.02 | |
| 654280 | 4136.66 | 4137.16 | 4137.61 | 4137.61 | 0.45 | 0.45 | 0.00 | |
| 44975 | 4050.41 | 4050.91 | 4052.03 | 4052.00 | 1.13 | 1.10 | -0.03 | |
| 320812 | 4050.86 | 4051.36 | 4052.05 | 4052.02 | 0.69 | 0.66 | -0.03 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 563645 | 4050.73 | 4051.23 | 4052.05 | 4052.02 | 0.82 | 0.79 | -0.03 |
| | 517551 | 4053.61 | 4054.11 | 4054.18 | 4054.17 | 0.07 | 0.06 | -0.01 |
| | 346782 | 4050.89 | 4051.39 | 4052.01 | 4051.98 | 0.62 | 0.59 | -0.03 |
| | 374118 | 4050.30 | 4050.80 | 4052.02 | 4051.99 | 1.21 | 1.18 | -0.03 |
| | 261552 | 4051.47 | 4051.97 | 4052.62 | 4052.60 | 0.65 | 0.63 | -0.02 |
| | 282709 | 4054.96 | 4055.46 | 4056.10 | 4056.09 | 0.63 | 0.62 | -0.01 |
| | 491772 | 4108.16 | 4108.66 | 4108.71 | 4108.71 | 0.05 | 0.05 | 0.00 |
| | 241209 | 4054.68 | 4055.18 | 4056.22 | 4056.21 | 1.05 | 1.03 | -0.02 |
| | 27573 | 4141.54 | 4142.04 | 4142.18 | 4142.18 | 0.14 | 0.14 | 0.00 |
| | 282731 | 4052.38 | 4052.88 | 4054.23 | 4054.21 | 1.34 | 1.33 | -0.01 |
| | 504664 | 4052.60 | 4053.10 | 4056.23 | 4056.21 | 3.13 | 3.12 | -0.02 |
| | 542815 | 4049.13 | 4049.63 | 4052.06 | 4052.03 | 2.43 | 2.40 | -0.03 |
| | 593272 | 4053.76 | 4054.26 | 4056.23 | 4056.21 | 1.97 | 1.95 | -0.02 |
| | 201355 | 4051.75 | 4052.25 | 4053.36 | 4053.35 | 1.11 | 1.10 | -0.01 |
| | 373967 | 4053.64 | 4054.14 | 4056.21 | 4056.20 | 2.07 | 2.06 | -0.02 |
| | 164335 | 4049.24 | 4049.74 | 4052.04 | 4052.01 | 2.30 | 2.27 | -0.03 |
| | 28259 | 4049.63 | 4050.13 | 4052.05 | 4052.02 | 1.92 | 1.89 | -0.03 |
| | 73270 | 4111.18 | 4111.68 | 4112.32 | 4112.32 | 0.64 | 0.64 | 0.00 |
| | 593246 | 4045.55 | 4046.05 | 4056.23 | 4056.21 | 10.18 | 10.16 | -0.02 |
| | 517553 | 4053.10 | 4053.60 | 4054.09 | 4054.08 | 0.49 | 0.47 | -0.02 |
| | 448869 | 4053.28 | 4053.78 | 4056.21 | 4056.20 | 2.43 | 2.42 | -0.02 |
| | 261492 | 4047.85 | 4048.35 | 4056.23 | 4056.21 | 7.88 | 7.87 | -0.02 |
| | 121697 | 4053.46 | 4053.96 | 4056.22 | 4056.21 | 2.27 | 2.25 | -0.02 |
| | 517564 | 4051.32 | 4051.82 | 4052.58 | 4052.56 | 0.76 | 0.75 | -0.01 |
| | 240456 | 4098.94 | 4099.44 | 4099.95 | 4099.95 | 0.50 | 0.50 | 0.00 |
| | 671169 | 4050.12 | 4050.62 | 4052.04 | 4052.01 | 1.42 | 1.39 | -0.03 |
| | 201280 | 4053.92 | 4054.42 | 4056.23 | 4056.21 | 1.81 | 1.79 | -0.02 |
| | 121329 | 4049.79 | 4050.29 | 4052.05 | 4052.02 | 1.76 | 1.73 | -0.03 |
| | 239249 | 4138.47 | 4138.97 | 4139.38 | 4139.38 | 0.42 | 0.42 | 0.00 |
| | 491727 | 4147.16 | 4147.66 | 4148.43 | 4148.43 | 0.76 | 0.76 | 0.00 |
| | 162577 | 4144.88 | 4145.38 | 4145.39 | 4145.39 | 0.01 | 0.01 | 0.00 |
| | 670865 | 4145.35 | 4145.85 | 4146.66 | 4146.66 | 0.81 | 0.81 | 0.00 |
| | 282568 | 4051.39 | 4051.89 | 4052.04 | 4052.01 | 0.15 | 0.12 | -0.03 |
| | 120345 | 4131.17 | 4131.67 | 4131.69 | 4131.69 | 0.02 | 0.02 | 0.00 |
| | 474400 | 4097.71 | 4098.21 | 4098.44 | 4098.44 | 0.24 | 0.24 | 0.00 |
| | 474575 | 4047.18 | 4047.68 | 4056.23 | 4056.21 | 8.55 | 8.54 | -0.02 |
| | 589230 | 4054.45 | 4054.95 | 4056.18 | 4056.17 | 1.23 | 1.22 | -0.02 |
| | 423213 | 4141.62 | 4142.12 | 4142.25 | 4142.25 | 0.12 | 0.12 | 0.00 |
| | 654843 | 4046.74 | 4047.24 | 4056.23 | 4056.21 | 8.99 | 8.97 | -0.02 |
| | 74674 | 4050.02 | 4050.52 | 4052.06 | 4052.03 | 1.54 | 1.51 | -0.03 |
| | 449397 | 4048.12 | 4048.62 | 4056.23 | 4056.21 | 7.61 | 7.59 | -0.02 |
| | 631876 | 4137.54 | 4138.04 | 4138.53 | 4138.53 | 0.48 | 0.48 | 0.00 |
| | 346658 | 4046.35 | 4046.85 | 4056.23 | 4056.21 | 9.38 | 9.36 | -0.02 |
| | 542557 | 4144.21 | 4144.71 | 4144.84 | 4144.84 | 0.13 | 0.13 | 0.00 |
| | 653399 | 4141.84 | 4142.34 | 4143.67 | 4143.67 | 1.33 | 1.33 | 0.00 |
| | 28136 | 4049.82 | 4050.32 | 4056.23 | 4056.21 | 5.91 | 5.89 | -0.02 |
| | 44900 | 4053.13 | 4053.63 | 4056.23 | 4056.21 | 2.60 | 2.58 | -0.02 |
| | 606729 | 4135.75 | 4136.25 | 4136.56 | 4136.56 | 0.31 | 0.31 | 0.00 |
| | 1835 | 4137.37 | 4137.87 | 4138.63 | 4138.63 | 0.76 | 0.76 | 0.00 |
| | 423554 | 4050.25 | 4050.75 | 4052.05 | 4052.02 | 1.30 | 1.27 | -0.03 |
| 28138 | 4052.42 | 4052.92 | 4056.23 | 4056.21 | 3.31 | 3.30 | -0.02 | |
| 163267 | 4104.77 | 4105.27 | 4105.39 | 4105.39 | 0.12 | 0.12 | 0.00 | |
| 163116 | 4049.79 | 4050.29 | 4052.05 | 4052.02 | 1.76 | 1.73 | -0.03 | |
| 589113 | 4057.25 | 4057.75 | 4058.84 | 4058.84 | 1.09 | 1.09 | 0.00 | |
| 2460 | 4051.76 | 4052.26 | 4056.23 | 4056.21 | 3.97 | 3.95 | -0.02 | |
| 606726 | 4141.11 | 4141.61 | 4141.62 | 4141.62 | 0.01 | 0.01 | 0.00 | |
| 282700 | 4053.45 | 4053.95 | 4056.23 | 4056.21 | 2.28 | 2.27 | -0.02 | |
| 201816 | 4066.35 | 4066.85 | 4067.90 | 4067.90 | 1.05 | 1.05 | 0.00 | |
| 239611 | 4048.97 | 4049.47 | 4052.05 | 4052.02 | 2.59 | 2.56 | -0.03 | |
| 448848 | 4043.93 | 4044.43 | 4056.23 | 4056.21 | 11.80 | 11.78 | -0.02 | |
| 474584 | 4044.23 | 4044.73 | 4056.23 | 4056.21 | 11.51 | 11.49 | -0.02 | |
| 530016 | 4052.98 | 4053.48 | 4056.23 | 4056.21 | 2.75 | 2.73 | -0.02 | |
| 74172 | 4042.51 | 4043.01 | 4056.23 | 4056.21 | 13.22 | 13.20 | -0.02 | |
| 121075 | 4066.63 | 4067.13 | 4067.69 | 4067.69 | 0.55 | 0.55 | 0.00 | |
| 121319 | 4049.95 | 4050.45 | 4052.05 | 4052.02 | 1.60 | 1.57 | -0.03 | |
| 120845 | 4100.09 | 4100.59 | 4100.79 | 4100.79 | 0.20 | 0.20 | 0.00 | |
| 449523 | 4043.73 | 4044.23 | 4056.23 | 4056.21 | 12.00 | 11.98 | -0.02 | |
| 397643 | 4053.89 | 4054.39 | 4056.23 | 4056.21 | 1.84 | 1.82 | -0.02 | |
| 606858 | 4053.41 | 4053.91 | 4056.23 | 4056.21 | 2.32 | 2.30 | -0.02 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 241212 | 4046.81 | 4047.31 | 4056.23 | 4056.21 | 8.92 | 8.90 | -0.02 |
| | 2804 | 4048.97 | 4049.47 | 4052.05 | 4052.02 | 2.59 | 2.56 | -0.03 |
| | 563465 | 4066.50 | 4067.00 | 4067.64 | 4067.64 | 0.64 | 0.64 | 0.00 |
| | 121473 | 4053.03 | 4053.53 | 4056.23 | 4056.21 | 2.70 | 2.68 | -0.02 |
| | 73965 | 4065.29 | 4065.79 | 4065.85 | 4065.85 | 0.06 | 0.06 | 0.00 |
| | 163021 | 4052.65 | 4053.15 | 4056.23 | 4056.21 | 3.08 | 3.07 | -0.02 |
| | 448785 | 4053.28 | 4053.78 | 4056.23 | 4056.21 | 2.45 | 2.44 | -0.02 |
| | 654647 | 4052.16 | 4052.66 | 4056.23 | 4056.21 | 3.57 | 3.55 | -0.02 |
| | 162753 | 4066.14 | 4066.64 | 4066.89 | 4066.89 | 0.25 | 0.25 | 0.00 |
| | 239383 | 4061.61 | 4062.11 | 4062.35 | 4062.35 | 0.24 | 0.24 | 0.00 |
| | 27877 | 4063.33 | 4063.83 | 4064.54 | 4064.54 | 0.72 | 0.72 | 0.00 |
| | 346627 | 4049.22 | 4049.72 | 4052.05 | 4052.02 | 2.34 | 2.31 | -0.03 |
| | 449527 | 4042.00 | 4042.50 | 4056.23 | 4056.21 | 13.73 | 13.71 | -0.02 |
| | 504521 | 4182.59 | 4183.09 | 4183.79 | 4183.79 | 0.70 | 0.70 | 0.00 |
| | 397536 | 4057.85 | 4058.35 | 4059.54 | 4059.54 | 1.19 | 1.19 | 0.00 |
| | 201158 | 4183.09 | 4183.59 | 4184.57 | 4184.57 | 0.98 | 0.98 | 0.00 |
| | 589128 | 4053.77 | 4054.27 | 4056.24 | 4056.22 | 1.97 | 1.96 | -0.01 |
| | 27378 | 4052.65 | 4053.15 | 4056.23 | 4056.21 | 3.08 | 3.06 | -0.02 |
| | 201149 | 4053.03 | 4053.53 | 4056.23 | 4056.21 | 2.70 | 2.68 | -0.02 |
| | 282510 | 4059.30 | 4059.80 | 4060.43 | 4060.43 | 0.63 | 0.63 | 0.00 |
| | 593186 | 4059.30 | 4059.80 | 4059.93 | 4059.93 | 0.13 | 0.13 | 0.00 |
| | 201150 | 4053.56 | 4054.06 | 4056.23 | 4056.21 | 2.17 | 2.15 | -0.02 |
| | 163958 | 4040.46 | 4040.96 | 4056.23 | 4056.21 | 15.27 | 15.25 | -0.02 |
| | 529991 | 4060.05 | 4060.55 | 4061.00 | 4061.00 | 0.45 | 0.45 | 0.00 |
| | 568279 | 4044.44 | 4044.94 | 4056.23 | 4056.21 | 11.29 | 11.27 | -0.02 |
| | 121439 | 4054.19 | 4054.69 | 4056.23 | 4056.21 | 1.54 | 1.52 | -0.02 |
| | 121008 | 4059.41 | 4059.91 | 4061.37 | 4061.37 | 1.47 | 1.47 | 0.00 |
| | 589222 | 4054.31 | 4054.81 | 4056.23 | 4056.21 | 1.42 | 1.40 | -0.02 |
| | 2051 | 4044.93 | 4045.43 | 4056.23 | 4056.21 | 10.80 | 10.78 | -0.02 |
| | 517516 | 4042.15 | 4042.65 | 4056.23 | 4056.21 | 13.58 | 13.56 | -0.02 |
| | 593285 | 4041.82 | 4042.32 | 4056.23 | 4056.21 | 13.91 | 13.89 | -0.02 |
| | 27883 | 4060.17 | 4060.67 | 4061.40 | 4061.40 | 0.73 | 0.73 | 0.00 |
| | 475036 | 4053.95 | 4054.45 | 4056.23 | 4056.21 | 1.78 | 1.76 | -0.02 |
| | 27884 | 4059.86 | 4060.36 | 4061.45 | 4061.45 | 1.08 | 1.08 | 0.00 |
| | 121020 | 4055.69 | 4056.19 | 4056.84 | 4056.84 | 0.65 | 0.65 | 0.00 |
| | 397549 | 4055.00 | 4055.50 | 4056.23 | 4056.22 | 0.73 | 0.72 | -0.02 |
| | 73441 | 4053.25 | 4053.75 | 4056.23 | 4056.21 | 2.48 | 2.46 | -0.02 |
| | 398146 | 4055.49 | 4055.99 | 4056.23 | 4056.21 | 0.24 | 0.22 | -0.02 |
| | 299669 | 4055.66 | 4056.16 | 4056.75 | 4056.75 | 0.59 | 0.59 | 0.00 |
| | 449285 | 4055.13 | 4055.63 | 4056.31 | 4056.31 | 0.68 | 0.68 | 0.00 |
| | 2437 | 4055.71 | 4056.21 | 4056.83 | 4056.83 | 0.63 | 0.63 | 0.00 |
| | 491849 | 4068.42 | 4068.92 | 4069.30 | 4069.30 | 0.37 | 0.37 | 0.00 |
| | 121023 | 4054.11 | 4054.61 | 4056.34 | 4056.34 | 1.73 | 1.73 | 0.00 |
| | 671000 | 4055.13 | 4055.63 | 4056.76 | 4056.76 | 1.13 | 1.13 | 0.00 |
| | 2345 | 4068.50 | 4069.00 | 4069.39 | 4069.39 | 0.39 | 0.39 | 0.00 |
| | 321499 | 4052.81 | 4053.31 | 4056.23 | 4056.21 | 2.92 | 2.91 | -0.02 |
| | 321428 | 4054.52 | 4055.02 | 4056.54 | 4056.54 | 1.51 | 1.51 | 0.00 |
| | 423360 | 4052.75 | 4053.25 | 4056.23 | 4056.21 | 2.98 | 2.97 | -0.02 |
| | 2440 | 4054.18 | 4054.68 | 4056.27 | 4056.27 | 1.59 | 1.59 | 0.00 |
| | 27892 | 4054.11 | 4054.61 | 4056.52 | 4056.52 | 1.91 | 1.91 | 0.00 |
| 504655 | 4055.24 | 4055.74 | 4056.70 | 4056.70 | 0.96 | 0.96 | 0.00 | |
| 568207 | 4054.72 | 4055.22 | 4056.35 | 4056.35 | 1.13 | 1.13 | 0.00 | |
| 321406 | 4067.80 | 4068.30 | 4069.00 | 4069.00 | 0.70 | 0.70 | 0.00 | |
| 121201 | 4055.34 | 4055.84 | 4056.23 | 4056.21 | 0.39 | 0.38 | -0.02 | |
| 27893 | 4054.11 | 4054.61 | 4056.24 | 4056.23 | 1.63 | 1.63 | -0.01 | |
| 654734 | 4052.51 | 4053.01 | 4056.23 | 4056.21 | 3.22 | 3.20 | -0.02 | |
| 606828 | 4064.20 | 4064.70 | 4064.89 | 4064.89 | 0.19 | 0.19 | 0.00 | |
| 120704 | 4054.00 | 4054.50 | 4056.59 | 4056.59 | 2.09 | 2.09 | 0.00 | |
| 398057 | 4046.80 | 4047.30 | 4056.23 | 4056.21 | 8.93 | 8.91 | -0.02 | |
| 654642 | 4054.26 | 4054.76 | 4056.23 | 4056.21 | 1.47 | 1.45 | -0.02 | |
| 530000 | 4056.29 | 4056.79 | 4056.89 | 4056.89 | 0.09 | 0.09 | 0.00 | |
| 201561 | 4051.82 | 4052.32 | 4056.23 | 4056.21 | 3.91 | 3.89 | -0.02 | |
| 423356 | 4054.57 | 4055.07 | 4056.23 | 4056.21 | 1.16 | 1.14 | -0.02 | |
| 119603 | 4053.92 | 4054.42 | 4056.23 | 4056.21 | 1.81 | 1.79 | -0.02 | |
| 163755 | 4054.32 | 4054.82 | 4056.23 | 4056.21 | 1.41 | 1.40 | -0.02 | |
| 282395 | 4049.13 | 4049.63 | 4056.23 | 4056.21 | 6.60 | 6.58 | -0.02 | |
| 27898 | 4051.98 | 4052.48 | 4056.23 | 4056.21 | 3.75 | 3.73 | -0.02 | |
| 121212 | 4053.56 | 4054.06 | 4056.23 | 4056.21 | 2.17 | 2.15 | -0.02 | |
| 1960 | 4054.78 | 4055.28 | 4056.23 | 4056.21 | 0.95 | 0.94 | -0.02 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 119564 | 4054.09 | 4054.59 | 4056.25 | 4056.24 | 1.66 | 1.66 | -0.01 |
| | 121225 | 4054.64 | 4055.14 | 4056.23 | 4056.21 | 1.09 | 1.08 | -0.02 |
| | 627854 | 4055.32 | 4055.82 | 4056.28 | 4056.28 | 0.46 | 0.46 | -0.01 |
| | 261448 | 4054.52 | 4055.02 | 4056.23 | 4056.21 | 1.21 | 1.19 | -0.02 |
| | 632201 | 4055.26 | 4055.76 | 4056.23 | 4056.21 | 0.47 | 0.45 | -0.02 |
| | 449536 | 4054.97 | 4055.47 | 4056.23 | 4056.21 | 0.76 | 0.74 | -0.02 |
| | 164132 | 4053.12 | 4053.62 | 4056.23 | 4056.21 | 2.61 | 2.59 | -0.02 |
| | 27900 | 4051.53 | 4052.03 | 4056.23 | 4056.21 | 4.20 | 4.18 | -0.02 |
| | 346502 | 4054.06 | 4054.56 | 4056.23 | 4056.21 | 1.67 | 1.66 | -0.02 |
| | 627928 | 4051.86 | 4052.36 | 4056.23 | 4056.21 | 3.87 | 3.86 | -0.02 |
| | 119572 | 4051.32 | 4051.82 | 4056.23 | 4056.21 | 4.41 | 4.39 | -0.02 |
| | 320787 | 4054.27 | 4054.77 | 4056.23 | 4056.21 | 1.46 | 1.45 | -0.02 |
| | 261532 | 4049.92 | 4050.42 | 4056.23 | 4056.21 | 5.81 | 5.79 | -0.02 |
| | 653656 | 4055.12 | 4055.62 | 4056.23 | 4056.21 | 0.61 | 0.59 | -0.02 |
| | 163725 | 4052.10 | 4052.60 | 4056.23 | 4056.21 | 3.63 | 3.61 | -0.02 |
| | 44904 | 4051.51 | 4052.01 | 4056.23 | 4056.21 | 4.22 | 4.20 | -0.02 |
| | 449385 | 4051.22 | 4051.72 | 4056.23 | 4056.21 | 4.51 | 4.49 | -0.02 |
| | 449547 | 4051.22 | 4051.72 | 4056.23 | 4056.21 | 4.51 | 4.49 | -0.02 |
| | 398258 | 4052.08 | 4052.58 | 4056.23 | 4056.21 | 3.65 | 3.63 | -0.02 |
| | 491880 | 4050.12 | 4050.62 | 4056.23 | 4056.21 | 5.61 | 5.59 | -0.02 |
| | 73572 | 4053.43 | 4053.93 | 4056.23 | 4056.21 | 2.30 | 2.28 | -0.02 |
| | 563495 | 4052.66 | 4053.16 | 4056.23 | 4056.21 | 3.07 | 3.06 | -0.02 |
| | 282719 | 4051.64 | 4052.14 | 4056.23 | 4056.21 | 4.09 | 4.07 | -0.02 |
| | 299748 | 4053.24 | 4053.74 | 4056.23 | 4056.21 | 2.49 | 2.47 | -0.02 |
| | 397640 | 4052.99 | 4053.49 | 4056.23 | 4056.21 | 2.74 | 2.72 | -0.02 |
| | 201179 | 4052.41 | 4052.91 | 4056.23 | 4056.21 | 3.32 | 3.31 | -0.02 |
| | 119567 | 4053.95 | 4054.45 | 4056.23 | 4056.21 | 1.78 | 1.76 | -0.02 |
| | 121100 | 4054.85 | 4055.35 | 4056.23 | 4056.21 | 0.88 | 0.87 | -0.02 |
| | 346410 | 4052.04 | 4052.54 | 4056.23 | 4056.21 | 3.69 | 3.67 | -0.02 |
| | 163022 | 4052.31 | 4052.81 | 4056.23 | 4056.21 | 3.42 | 3.40 | -0.02 |
| | 2433 | 4055.44 | 4055.94 | 4056.23 | 4056.22 | 0.29 | 0.27 | -0.02 |
| | 449389 | 4051.51 | 4052.01 | 4056.23 | 4056.21 | 4.22 | 4.21 | -0.02 |
| | 299693 | 4051.14 | 4051.64 | 4056.23 | 4056.21 | 4.59 | 4.57 | -0.02 |
| 670997 | 4055.04 | 4055.54 | 4056.23 | 4056.21 | 0.69 | 0.67 | -0.02 | |
| 282307 | 4051.55 | 4052.05 | 4056.23 | 4056.21 | 4.18 | 4.17 | -0.02 | |
| 475033 | 4051.16 | 4051.66 | 4056.23 | 4056.21 | 4.58 | 4.56 | -0.02 | |
| 589124 | 4055.47 | 4055.97 | 4056.23 | 4056.21 | 0.26 | 0.24 | -0.02 | |
| 423370 | 4051.88 | 4052.38 | 4056.23 | 4056.21 | 3.85 | 3.83 | -0.02 | |
| 202091 | 4051.36 | 4051.86 | 4056.23 | 4056.21 | 4.37 | 4.35 | -0.02 | |
| 163733 | 4051.39 | 4051.89 | 4056.23 | 4056.21 | 4.34 | 4.32 | -0.02 | |
| 606839 | 4053.66 | 4054.16 | 4056.23 | 4056.21 | 2.07 | 2.05 | -0.02 | |
| 593207 | 4050.37 | 4050.87 | 4056.23 | 4056.21 | 5.37 | 5.35 | -0.02 | |
| 589145 | 4052.09 | 4052.59 | 4056.23 | 4056.21 | 3.64 | 3.62 | -0.02 | |
| 0.2% Annual Chance Commercial Buildings | 474559 | 4039.19 | 4039.69 | 4,040.58 | 0.00 | 0.89 | 0.00 | -0.89 |
| | 241024 | 4040.72 | 4041.22 | 4,042.45 | 4042.18 | 1.23 | 0.96 | -0.27 |
| | 201200 | 4040.91 | 4041.41 | 4,042.50 | 4042.19 | 1.09 | 0.79 | -0.31 |
| | 120892 | 4040.77 | 4041.27 | 4,042.65 | 4042.29 | 1.38 | 1.02 | -0.36 |
| | 593238 | 4041.01 | 4041.51 | 4,042.75 | 0.00 | 1.24 | 0.00 | -1.24 |
| | 517561 | 4027.14 | 4027.64 | 4,027.93 | 0.00 | 0.29 | 0.00 | -0.29 |
| | 606987 | 4027.57 | 4028.07 | 4,028.61 | 0.00 | 0.54 | 0.00 | -0.54 |
| | 346552 | 4065.18 | 4065.68 | 4,065.88 | 0.00 | 0.19 | 0.00 | -0.19 |
| | 321620 | 4039.36 | 4039.86 | 4,041.77 | 4041.03 | 1.91 | 1.17 | -0.74 |
| | 372053 | 4039.13 | 4039.63 | 4,041.77 | 4041.03 | 2.14 | 1.40 | -0.74 |
| | 239460 | 4039.01 | 4039.51 | 4,041.78 | 4041.03 | 2.27 | 1.52 | -0.74 |
| | 163933 | 4039.57 | 4040.07 | 4,041.79 | 4041.04 | 1.73 | 0.97 | -0.75 |
| | 282470 | 4030.97 | 4031.47 | 4,033.01 | 0.00 | 1.54 | 0.00 | -1.54 |
| | 121442 | 4031.35 | 4031.85 | 4,033.53 | 4032.55 | 1.68 | 0.69 | -0.99 |
| | 606941 | 4032.48 | 4032.98 | 4,034.79 | 4033.80 | 1.82 | 0.82 | -0.99 |
| | 2468 | 4045.30 | 4045.80 | 4,047.96 | 0.00 | 2.16 | 0.00 | -2.16 |
| | 239991 | 4040.16 | 4040.66 | 4,042.03 | 4041.83 | 1.37 | 1.17 | -0.21 |
| | 671034 | 4040.96 | 4041.46 | 4,042.10 | 0.00 | 0.64 | 0.00 | -0.64 |
| | 671029 | 4042.54 | 4043.04 | 4,044.42 | 4044.18 | 1.39 | 1.15 | -0.24 |
| | 28140 | 4034.47 | 4034.97 | 4,036.64 | 4035.83 | 1.67 | 0.87 | -0.80 |
| | 320709 | 4039.07 | 4039.57 | 4,041.44 | 4040.75 | 1.87 | 1.18 | -0.69 |
| | 593279 | 4038.49 | 4038.99 | 4,041.43 | 4040.75 | 2.44 | 1.76 | -0.68 |
| | 320707 | 4039.37 | 4039.87 | 4,041.48 | 4040.76 | 1.61 | 0.90 | -0.71 |
| 475040 | 4046.63 | 4047.13 | 4,048.97 | 4048.55 | 1.85 | 1.43 | -0.42 | |
| 530078 | 4038.78 | 4039.28 | 4,041.45 | 4040.75 | 2.16 | 1.47 | -0.69 | |
| 239996 | 4037.89 | 4038.39 | 4,041.96 | 4041.16 | 3.56 | 2.77 | -0.80 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Commercial Buildings | 163955 | 4038.70 | 4039.20 | 4,041.43 | 4040.75 | 2.24 | 1.55 | -0.68 |
| | 2016 | 4039.11 | 4039.61 | 4,041.82 | 4041.04 | 2.20 | 1.42 | -0.78 |
| | 162965 | 4038.62 | 4039.12 | 4,041.47 | 4040.76 | 2.35 | 1.64 | -0.71 |
| | 282631 | 4038.49 | 4038.99 | 4,041.72 | 4040.96 | 2.73 | 1.98 | -0.76 |
| | 530068 | 4038.59 | 4039.09 | 4,041.66 | 4040.92 | 2.57 | 1.83 | -0.74 |
| | 474557 | 4039.33 | 4039.83 | 4,041.78 | 4041.00 | 1.95 | 1.17 | -0.77 |
| | 423705 | 4067.73 | 4068.23 | 4,069.05 | 4068.25 | 0.82 | 0.02 | -0.80 |
| | 163038 | 4039.66 | 4040.16 | 4,042.05 | 4041.30 | 1.89 | 1.14 | -0.75 |
| | 282625 | 4039.25 | 4039.75 | 4,041.83 | 4041.02 | 2.08 | 1.27 | -0.80 |
| | 397596 | 4039.41 | 4039.91 | 4,041.80 | 4041.01 | 1.89 | 1.10 | -0.79 |
| | 397537 | 4069.35 | 4069.85 | 4,069.98 | 4069.37 | 0.13 | 0.00 | -0.13 |
| | 374042 | 4026.94 | 4027.44 | 4,028.63 | 0.00 | 1.19 | 0.00 | -1.19 |
| | 2554 | 4039.71 | 4040.21 | 4,042.09 | 4041.34 | 1.88 | 1.13 | -0.75 |
| | 44820 | 4068.28 | 4068.78 | 4,069.63 | 4068.68 | 0.85 | 0.00 | -0.85 |
| | 321418 | 4069.63 | 4070.13 | 4,070.92 | 4070.26 | 0.79 | 0.13 | -0.66 |
| | 1956 | 4068.92 | 4069.42 | 4,070.10 | 4069.36 | 0.68 | 0.00 | -0.68 |
| | 321502 | 4065.57 | 4066.07 | 4,068.01 | 4067.39 | 1.94 | 1.31 | -0.63 |
| | 119683 | 4031.86 | 4032.36 | 4,033.60 | 4032.67 | 1.24 | 0.31 | -0.93 |
| | 74275 | 4065.48 | 4065.98 | 4,067.95 | 4067.30 | 1.97 | 1.32 | -0.65 |
| | 2707 | 4027.70 | 4028.20 | 4,028.45 | 0.00 | 0.25 | 0.00 | -0.25 |
| | 627863 | 4063.42 | 4063.92 | 4,067.29 | 4066.69 | 3.37 | 2.76 | -0.61 |
| | 491872 | 4065.38 | 4065.88 | 4,067.58 | 4066.93 | 1.70 | 1.05 | -0.65 |
| | 397946 | 4065.81 | 4066.31 | 4,067.90 | 4067.21 | 1.59 | 0.90 | -0.69 |
| | 423782 | 4066.35 | 4066.85 | 4,067.70 | 4067.08 | 0.85 | 0.23 | -0.62 |
| | 27340 | 4071.49 | 4071.99 | 4,072.88 | 4071.65 | 0.89 | 0.00 | -0.89 |
| | 121299 | 4066.32 | 4066.82 | 4,067.77 | 4067.13 | 0.94 | 0.30 | -0.64 |
| | 119574 | 4066.23 | 4066.73 | 4,067.85 | 4067.20 | 1.13 | 0.47 | -0.65 |
| | 397560 | 4066.45 | 4066.95 | 4,068.08 | 4067.44 | 1.12 | 0.49 | -0.64 |
| | 504662 | 4065.92 | 4066.42 | 4,067.92 | 4067.28 | 1.50 | 0.86 | -0.64 |
| | 239408 | 4066.59 | 4067.09 | 4,068.22 | 4067.62 | 1.12 | 0.53 | -0.59 |
| | 2443 | 4066.43 | 4066.93 | 4,068.00 | 4067.39 | 1.08 | 0.46 | -0.61 |
| | 542678 | 4066.69 | 4067.19 | 4,068.39 | 4067.78 | 1.19 | 0.59 | -0.60 |
| | 346551 | 4066.46 | 4066.96 | 4,068.11 | 4067.51 | 1.15 | 0.55 | -0.60 |
| | 606845 | 4066.59 | 4067.09 | 4,068.53 | 4067.91 | 1.44 | 0.82 | -0.62 |
| | 504756 | 4033.01 | 4033.51 | 4,034.40 | 4033.91 | 0.89 | 0.40 | -0.49 |
| | 201169 | 4066.30 | 4066.80 | 4,068.23 | 4067.63 | 1.43 | 0.84 | -0.60 |
| | 163079 | 4027.67 | 4028.17 | 4,028.22 | 4027.50 | 0.05 | 0.00 | -0.05 |
| | 397945 | 4066.50 | 4067.00 | 4,068.64 | 4068.01 | 1.64 | 1.00 | -0.64 |
| | 373830 | 4066.07 | 4066.57 | 4,068.35 | 4067.75 | 1.78 | 1.18 | -0.60 |
| | 542677 | 4066.40 | 4066.90 | 4,068.76 | 4068.11 | 1.87 | 1.22 | -0.65 |
| | 589095 | 4071.72 | 4072.22 | 4,072.92 | 4071.64 | 0.70 | 0.00 | -0.70 |
| | 73430 | 4066.09 | 4066.59 | 4,068.50 | 4067.89 | 1.92 | 1.30 | -0.61 |
| | 397948 | 4066.38 | 4066.88 | 4,068.88 | 4068.20 | 2.00 | 1.32 | -0.68 |
| | 423781 | 4066.25 | 4066.75 | 4,068.58 | 4067.96 | 1.83 | 1.22 | -0.62 |
| | 163540 | 4071.32 | 4071.82 | 4,073.26 | 4072.05 | 1.44 | 0.24 | -1.20 |
| | 504779 | 4027.16 | 4027.66 | 4,028.13 | 4027.29 | 0.48 | 0.00 | -0.48 |
| | 627861 | 4066.31 | 4066.81 | 4,068.64 | 4068.02 | 1.83 | 1.21 | -0.62 |
| | 474627 | 4028.19 | 4028.69 | 4,028.72 | 4028.46 | 0.03 | 0.00 | -0.03 |
| | 27388 | 4066.05 | 4066.55 | 4,068.71 | 4068.09 | 2.16 | 1.53 | -0.62 |
| | 240165 | 4028.12 | 4028.62 | 4,029.00 | 4028.63 | 0.38 | 0.01 | -0.37 |
| 448799 | 4066.64 | 4067.14 | 4,068.77 | 4068.14 | 1.63 | 1.00 | -0.63 | |
| 73433 | 4066.60 | 4067.10 | 4,068.80 | 4068.17 | 1.70 | 1.07 | -0.63 | |
| 299780 | 4028.47 | 4028.97 | 4,029.28 | 4028.93 | 0.31 | 0.00 | -0.31 | |
| 671008 | 4066.50 | 4067.00 | 4,068.81 | 4068.18 | 1.81 | 1.17 | -0.63 | |
| 320586 | 4072.54 | 4073.04 | 4,073.70 | 4072.47 | 0.66 | 0.00 | -0.66 | |
| 282495 | 4028.19 | 4028.69 | 4,028.81 | 4028.29 | 0.11 | 0.00 | -0.11 | |
| 121298 | 4066.67 | 4067.17 | 4,068.81 | 4068.18 | 1.64 | 1.01 | -0.63 | |
| 320586 | 4072.54 | 4073.04 | 4,073.70 | 4072.47 | 0.66 | 0.00 | -0.66 | |
| 239868 | 4066.85 | 4067.35 | 4,068.81 | 4068.18 | 1.46 | 0.83 | -0.63 | |
| 44831 | 4066.81 | 4067.31 | 4,068.80 | 4068.18 | 1.49 | 0.87 | -0.63 | |
| 397563 | 4067.03 | 4067.53 | 4,068.79 | 4068.17 | 1.27 | 0.65 | -0.62 | |
| 44834 | 4067.31 | 4067.81 | 4,068.78 | 4068.17 | 0.98 | 0.36 | -0.62 | |
| 73431 | 4067.38 | 4067.88 | 4,068.77 | 4068.16 | 0.90 | 0.28 | -0.61 | |
| 606846 | 4067.51 | 4068.01 | 4,068.76 | 4068.15 | 0.76 | 0.15 | -0.61 | |
| 671011 | 4067.72 | 4068.22 | 4,068.76 | 4068.14 | 0.54 | 0.00 | -0.54 | |
| 120712 | 4067.74 | 4068.24 | 4,068.75 | 4068.13 | 0.51 | 0.00 | -0.51 | |
| 373831 | 4067.48 | 4067.98 | 4,068.73 | 4068.11 | 0.75 | 0.13 | -0.62 | |
| 589139 | 4067.53 | 4068.03 | 4,068.72 | 4068.10 | 0.70 | 0.07 | -0.63 | |
| 653539 | 4067.70 | 4068.20 | 4,068.70 | 4068.08 | 0.50 | 0.00 | -0.50 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Commercial Buildings | 27775 | 4072.75 | 4073.25 | 4,073.99 | 4072.68 | 0.74 | 0.00 | -0.74 |
| | 423363 | 4067.57 | 4068.07 | 4,068.65 | 4068.04 | 0.58 | 0.00 | -0.58 |
| | 397681 | 4080.16 | 4080.66 | 4,081.41 | 4080.71 | 0.74 | 0.05 | -0.69 |
| | 121029 | 4067.74 | 4068.24 | 4,068.61 | 4068.01 | 0.36 | 0.00 | -0.36 |
| | 423215 | 4079.35 | 4079.85 | 4,080.96 | 0.00 | 1.11 | 0.00 | -1.11 |
| | 162731 | 4072.32 | 4072.82 | 4,073.98 | 4072.66 | 1.16 | 0.00 | -1.16 |
| | 517435 | 4067.35 | 4067.85 | 4,068.54 | 4067.94 | 0.68 | 0.09 | -0.59 |
| | 530011 | 4067.24 | 4067.74 | 4,068.49 | 4067.87 | 0.75 | 0.12 | -0.62 |
| | 563338 | 4079.54 | 4080.04 | 4,081.42 | 4080.72 | 1.38 | 0.68 | -0.70 |
| | 121030 | 4067.42 | 4067.92 | 4,068.47 | 4067.86 | 0.55 | 0.00 | -0.55 |
| | 239409 | 4067.61 | 4068.11 | 4,068.49 | 4067.92 | 0.38 | 0.00 | -0.38 |
| | 239869 | 4067.61 | 4068.11 | 4,068.58 | 4068.06 | 0.47 | 0.00 | -0.47 |
| | 239603 | 4021.92 | 4022.42 | 4,028.03 | 4027.26 | 5.61 | 4.84 | -0.76 |
| | 120713 | 4067.61 | 4068.11 | 4,068.66 | 4068.10 | 0.55 | 0.00 | -0.55 |
| | 346386 | 4074.09 | 4074.59 | 4,075.12 | 4074.09 | 0.53 | 0.00 | -0.53 |
| | 670936 | 4074.15 | 4074.65 | 4,075.24 | 4074.22 | 0.59 | 0.00 | -0.59 |
| | 371866 | 4079.19 | 4079.69 | 4,081.44 | 4081.17 | 1.75 | 1.48 | -0.27 |
| | 632082 | 4067.41 | 4067.91 | 4,068.71 | 4068.13 | 0.80 | 0.21 | -0.58 |
| | 542552 | 4079.52 | 4080.02 | 4,081.44 | 4081.22 | 1.42 | 1.19 | -0.23 |
| | 423365 | 4067.49 | 4067.99 | 4,068.73 | 4068.15 | 0.75 | 0.16 | -0.58 |
| | 346351 | 4067.48 | 4067.98 | 4,068.75 | 4068.16 | 0.77 | 0.17 | -0.60 |
| | 162639 | 4079.25 | 4079.75 | 4,081.44 | 4081.18 | 1.69 | 1.44 | -0.26 |
| | 299625 | 4071.48 | 4071.98 | 4,073.90 | 4072.55 | 1.93 | 0.57 | -1.36 |
| | 201666 | 4067.24 | 4067.74 | 4,068.76 | 4068.15 | 1.02 | 0.41 | -0.60 |
| | 423364 | 4066.90 | 4067.40 | 4,068.76 | 4068.15 | 1.36 | 0.75 | -0.60 |
| | 261576 | 4024.32 | 4024.82 | 4,026.28 | 4025.59 | 1.47 | 0.78 | -0.69 |
| | 240832 | 4066.39 | 4066.89 | 4,068.75 | 4068.15 | 1.86 | 1.26 | -0.60 |
| | 653540 | 4066.48 | 4066.98 | 4,068.75 | 4068.15 | 1.78 | 1.17 | -0.60 |
| | 201380 | 4025.19 | 4025.69 | 4,027.41 | 0.00 | 1.73 | 0.00 | -1.73 |
| | 448893 | 4075.72 | 4076.22 | 4,081.43 | 4080.72 | 5.21 | 4.50 | -0.71 |
| | 606847 | 4066.58 | 4067.08 | 4,068.75 | 4068.15 | 1.67 | 1.06 | -0.60 |
| | 73429 | 4066.75 | 4067.25 | 4,068.75 | 4068.15 | 1.50 | 0.90 | -0.60 |
| | 631844 | 4074.39 | 4074.89 | 4,081.43 | 4080.72 | 6.54 | 5.83 | -0.71 |
| | 74818 | 4025.33 | 4025.83 | 4,027.33 | 0.00 | 1.50 | 0.00 | -1.50 |
| | 119435 | 4080.45 | 4080.95 | 4,081.44 | 4080.73 | 0.50 | 0.00 | -0.50 |
| | 1968 | 4066.97 | 4067.47 | 4,068.74 | 4068.15 | 1.27 | 0.68 | -0.60 |
| | 504663 | 4066.91 | 4067.41 | 4,068.74 | 4068.14 | 1.32 | 0.73 | -0.59 |
| | 670864 | 4074.28 | 4074.78 | 4,081.44 | 4080.72 | 6.65 | 5.94 | -0.71 |
| | 202095 | 4066.70 | 4067.20 | 4,068.73 | 4068.14 | 1.54 | 0.94 | -0.59 |
| | 74277 | 4066.79 | 4067.29 | 4,068.73 | 4068.14 | 1.44 | 0.85 | -0.59 |
| | 627860 | 4066.75 | 4067.25 | 4,068.72 | 4068.14 | 1.48 | 0.89 | -0.58 |
| | 27390 | 4066.64 | 4067.14 | 4,068.72 | 4068.14 | 1.58 | 0.99 | -0.58 |
| | 653478 | 4074.17 | 4074.67 | 4,075.81 | 4074.82 | 1.14 | 0.15 | -0.99 |
| | 589138 | 4066.69 | 4067.19 | 4,068.72 | 4068.14 | 1.53 | 0.94 | -0.58 |
| | 261452 | 4066.68 | 4067.18 | 4,068.72 | 4068.14 | 1.54 | 0.96 | -0.58 |
| | 73996 | 4066.62 | 4067.12 | 4,068.72 | 4068.14 | 1.60 | 1.02 | -0.58 |
| | 299686 | 4066.51 | 4067.01 | 4,068.71 | 4068.14 | 1.70 | 1.13 | -0.58 |
| | 671009 | 4066.44 | 4066.94 | 4,068.71 | 4068.14 | 1.77 | 1.20 | -0.57 |
| | 346153 | 4077.95 | 4078.45 | 4,081.43 | 4080.71 | 2.98 | 2.27 | -0.71 |
| | 44778 | 4074.11 | 4074.61 | 4,075.14 | 4074.09 | 0.52 | 0.00 | -0.52 |
| 397564 | 4066.47 | 4066.97 | 4,068.70 | 4068.14 | 1.73 | 1.16 | -0.57 | |
| 27780 | 4073.16 | 4073.66 | 4,074.68 | 4073.67 | 1.02 | 0.01 | -1.02 | |
| 73997 | 4066.62 | 4067.12 | 4,068.70 | 4068.13 | 1.58 | 1.01 | -0.56 | |
| 529927 | 4075.35 | 4075.85 | 4,076.14 | 4074.99 | 0.29 | 0.00 | -0.29 | |
| 239737 | 4074.43 | 4074.93 | 4,076.08 | 0.00 | 1.14 | 0.00 | -1.14 | |
| 120125 | 4203.60 | 4204.10 | 4,204.72 | 4204.58 | 0.62 | 0.48 | -0.14 | |
| 423287 | 4207.60 | 4208.10 | 4,208.13 | 4208.10 | 0.03 | 0.00 | -0.03 | |
| 517295 | 4115.96 | 4116.46 | 4,116.83 | 4116.83 | 0.37 | 0.37 | 0.00 | |
| 423208 | 4115.61 | 4116.11 | 4,117.14 | 4117.13 | 1.03 | 1.03 | 0.00 | |
| 397389 | 4115.85 | 4116.35 | 4,116.87 | 4116.81 | 0.51 | 0.45 | -0.06 | |
| 201691 | 4052.58 | 4053.08 | 4,054.90 | 4054.44 | 1.82 | 1.35 | -0.47 | |
| 2473 | 4052.71 | 4053.21 | 4,055.20 | 4054.69 | 1.99 | 1.48 | -0.51 | |
| 654736 | 4053.35 | 4053.85 | 4,054.95 | 4054.46 | 1.10 | 0.61 | -0.49 | |
| 504665 | 4053.69 | 4054.19 | 4,056.54 | 4056.34 | 2.35 | 2.15 | -0.21 | |
| 239414 | 4054.35 | 4054.85 | 4,056.54 | 4056.34 | 1.69 | 1.49 | -0.21 | |
| 239417 | 4054.73 | 4055.23 | 4,056.54 | 4056.34 | 1.32 | 1.11 | -0.21 | |
| 563497 | 4055.24 | 4055.74 | 4,056.53 | 4056.40 | 0.79 | 0.66 | -0.13 | |
| 239418 | 4054.73 | 4055.23 | 4,056.51 | 4056.51 | 1.28 | 1.28 | 0.00 | |
| 320646 | 4055.53 | 4056.03 | 4,056.94 | 4056.94 | 0.91 | 0.91 | 0.00 | |

Appendix 5H

MON3 (FMP ID: 143000024) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Commercial Buildings | 73998 | 4056.02 | 4056.52 | 4,056.90 | 4056.90 | 0.38 | 0.38 | 0.00 |
| | 671012 | 4053.68 | 4054.18 | 4,056.23 | 4056.21 | 2.05 | 2.04 | -0.02 |
| | 1967 | 4052.83 | 4053.33 | 4,056.23 | 4056.21 | 2.90 | 2.89 | -0.02 |
| | 73434 | 4052.29 | 4052.79 | 4,056.23 | 4056.21 | 3.44 | 3.42 | -0.02 |
| | 239464 | 4042.34 | 4042.84 | 4,056.23 | 4056.21 | 13.40 | 13.38 | -0.02 |
| | 398018 | 4049.97 | 4050.47 | 4,056.23 | 4056.21 | 5.76 | 5.75 | -0.02 |
| | 653543 | 4050.60 | 4051.10 | 4,056.23 | 4056.21 | 5.13 | 5.11 | -0.02 |

Appendix 5H

NE3B (FMP ID: 143000100) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 566378 | 3908.04 | 3908.54 | 3908.86 | 3908.70 | 0.33 | 0.17 | -0.16 |
| | 352308 | 3908.34 | 3908.84 | 3909.67 | 3909.46 | 0.83 | 0.61 | -0.21 |
| | 630687 | 3917.08 | 3917.58 | 3917.90 | 3917.74 | 0.32 | 0.15 | -0.16 |
| | 352276 | 3917.29 | 3917.79 | 3918.00 | 3917.99 | 0.21 | 0.19 | -0.02 |
| | 132486 | 3917.86 | 3918.36 | 3918.60 | 3918.59 | 0.24 | 0.23 | -0.01 |
| | 302672 | 3918.10 | 3918.60 | 3919.07 | 3919.06 | 0.47 | 0.46 | -0.02 |
| | 7675 | 3919.84 | 3920.34 | 3920.47 | 3920.46 | 0.13 | 0.12 | -0.01 |
| | 132829 | 3920.11 | 3920.61 | 3920.69 | 0.00 | 0.08 | 0.00 | -0.08 |
| | 171377 | 3920.54 | 3921.04 | 3921.15 | 0.00 | 0.11 | 0.00 | -0.11 |
| | 132779 | 3922.71 | 3923.21 | 3924.09 | 3923.79 | 0.88 | 0.58 | -0.30 |
| | 81927 | 3925.07 | 3925.57 | 3925.68 | 3925.68 | 0.10 | 0.10 | 0.00 |
| | 404145 | 3930.12 | 3930.62 | 3930.84 | 3930.84 | 0.22 | 0.22 | 0.00 |
| | 288110 | 3927.74 | 3928.24 | 3928.77 | 3928.77 | 0.53 | 0.53 | 0.00 |
| | 327146 | 3929.24 | 3929.74 | 3929.95 | 3929.95 | 0.21 | 0.21 | 0.00 |
| | 658940 | 3930.50 | 3931.00 | 3931.23 | 3931.23 | 0.23 | 0.23 | 0.00 |
| | 172667 | 3915.45 | 3915.95 | 3916.39 | 3916.38 | 0.44 | 0.43 | -0.01 |
| | 302675 | 3916.03 | 3916.53 | 3916.99 | 3916.98 | 0.47 | 0.46 | -0.01 |
| | 288013 | 3923.19 | 3923.69 | 3924.85 | 3924.38 | 1.16 | 0.69 | -0.47 |
| | 571284 | 3925.30 | 3925.80 | 3926.06 | 3926.06 | 0.26 | 0.26 | 0.00 |
| | 352362 | 3925.69 | 3926.19 | 3926.48 | 3926.48 | 0.29 | 0.29 | 0.00 |
| | 429058 | 3930.59 | 3931.09 | 3932.04 | 0.00 | 0.95 | 0.00 | -0.95 |
| | 132794 | 3919.20 | 3919.70 | 3919.93 | 3919.93 | 0.23 | 0.23 | 0.00 |
| | 660317 | 3920.16 | 3920.66 | 3920.69 | 3920.17 | 0.03 | 0.00 | -0.03 |
| | 247730 | 3920.57 | 3921.07 | 3921.22 | 3921.02 | 0.15 | 0.00 | -0.15 |
| | 81914 | 3920.39 | 3920.89 | 3921.17 | 0.00 | 0.28 | 0.00 | -0.28 |
| | 288310 | 3920.30 | 3920.80 | 3921.21 | 3920.88 | 0.41 | 0.08 | -0.33 |
| | 33060 | 3920.60 | 3921.10 | 3921.39 | 3921.09 | 0.29 | 0.00 | -0.29 |
| | 454534 | 3921.51 | 3922.01 | 3922.14 | 3922.11 | 0.12 | 0.10 | -0.02 |
| | 566402 | 3923.47 | 3923.97 | 3924.16 | 3924.16 | 0.19 | 0.19 | 0.00 |
| | 288016 | 3923.15 | 3923.65 | 3924.54 | 3924.15 | 0.89 | 0.51 | -0.39 |
| | 211360 | 3923.34 | 3923.84 | 3924.29 | 3923.96 | 0.45 | 0.12 | -0.32 |
| | 209869 | 3923.43 | 3923.93 | 3925.10 | 3924.49 | 1.17 | 0.56 | -0.61 |
| | 404031 | 3923.86 | 3924.36 | 3924.85 | 3924.69 | 0.49 | 0.33 | -0.16 |
| | 209584 | 3923.91 | 3924.41 | 3925.44 | 3924.60 | 1.03 | 0.19 | -0.84 |
| | 132763 | 3924.31 | 3924.81 | 3925.92 | 3924.70 | 1.11 | 0.00 | -1.11 |
| | 403328 | 3924.08 | 3924.58 | 3925.31 | 3924.72 | 0.73 | 0.14 | -0.59 |
| | 132478 | 3924.75 | 3925.25 | 3926.08 | 3925.24 | 0.83 | 0.00 | -0.83 |
| | 635423 | 3926.22 | 3926.72 | 3927.21 | 3927.21 | 0.50 | 0.50 | 0.00 |
| | 327113 | 3924.88 | 3925.38 | 3925.78 | 3925.22 | 0.40 | 0.00 | -0.40 |
| | 378955 | 3925.29 | 3925.79 | 3926.63 | 3925.40 | 0.84 | 0.00 | -0.84 |
| | 592131 | 3927.31 | 3927.81 | 3928.13 | 3928.13 | 0.31 | 0.31 | 0.00 |
| | 264475 | 3930.65 | 3931.15 | 3931.18 | 3931.18 | 0.03 | 0.03 | 0.00 |
| | 33153 | 3929.29 | 3929.79 | 3930.06 | 3930.06 | 0.27 | 0.27 | 0.00 |
| | 327240 | 3931.27 | 3931.77 | 3931.84 | 3931.84 | 0.07 | 0.07 | 0.00 |
| | 171519 | 3929.71 | 3930.21 | 3930.36 | 3930.36 | 0.15 | 0.15 | 0.00 |
| | 352248 | 3925.33 | 3925.83 | 3926.30 | 3925.38 | 0.47 | 0.00 | -0.47 |
| | 7596 | 3927.11 | 3927.61 | 3927.86 | 0.00 | 0.25 | 0.00 | -0.25 |
| | 288343 | 3926.00 | 3926.50 | 3926.71 | 3926.71 | 0.21 | 0.21 | 0.00 |
| | 326185 | 3926.46 | 3926.96 | 3927.07 | 3927.07 | 0.12 | 0.12 | 0.00 |
| | 302687 | 3926.77 | 3927.27 | 3927.43 | 3927.43 | 0.16 | 0.16 | 0.00 |
| 211502 | 3927.07 | 3927.57 | 3927.84 | 3927.84 | 0.27 | 0.27 | 0.00 | |
| 264454 | 3929.59 | 3930.09 | 3930.51 | 3930.51 | 0.42 | 0.42 | 0.00 | |
| 209848 | 3926.91 | 3927.41 | 3928.27 | 0.00 | 0.86 | 0.00 | -0.86 | |
| 288588 | 3939.15 | 3939.65 | 3939.92 | 3939.92 | 0.27 | 0.27 | 0.00 | |
| 171708 | 3940.43 | 3940.93 | 3941.13 | 3941.13 | 0.20 | 0.20 | 0.00 | |
| 8575 | 3939.97 | 3940.47 | 3940.93 | 3940.93 | 0.46 | 0.46 | 0.00 | |
| 83567 | 3939.63 | 3940.13 | 3940.63 | 3940.63 | 0.50 | 0.50 | 0.00 | |
| 133213 | 3938.78 | 3939.28 | 3939.56 | 3939.56 | 0.28 | 0.28 | 0.00 | |
| 133247 | 3937.81 | 3938.31 | 3938.47 | 3938.47 | 0.16 | 0.16 | 0.00 | |
| 172871 | 3934.33 | 3934.83 | 3934.91 | 3934.91 | 0.09 | 0.09 | 0.00 | |
| 249425 | 3928.58 | 3929.08 | 3929.38 | 3929.38 | 0.30 | 0.30 | 0.00 | |
| 264485 | 3934.89 | 3935.39 | 3935.75 | 3935.75 | 0.36 | 0.36 | 0.00 | |
| 171537 | 3933.44 | 3933.94 | 3934.47 | 3934.47 | 0.53 | 0.53 | 0.00 | |
| 327243 | 3932.89 | 3933.39 | 3933.81 | 3933.81 | 0.43 | 0.43 | 0.00 | |
| 47722 | 3932.33 | 3932.83 | 3933.33 | 3933.33 | 0.50 | 0.50 | 0.00 | |
| 288451 | 3931.78 | 3932.28 | 3932.51 | 3932.51 | 0.22 | 0.22 | 0.00 | |
| 210019 | 3931.04 | 3931.54 | 3932.07 | 3932.07 | 0.53 | 0.53 | 0.00 | |
| 326260 | 3930.14 | 3930.64 | 3930.83 | 3930.83 | 0.18 | 0.18 | 0.00 | |
| 210002 | 3929.32 | 3929.82 | 3929.90 | 3929.90 | 0.09 | 0.09 | 0.00 | |

Appendix 5H

NE3B (FMP ID: 143000100) Hydraulic Model Depth Results at Buildings Analyzed

| | | | | | | | | |
|--|---------|---------|---------|---------|---------|------|-------|-------|
| 1% Annual Chance Residences | 172518 | 3927.10 | 3927.60 | 3928.46 | 0.00 | 0.86 | 0.00 | -0.86 |
| | 132819 | 3927.09 | 3927.59 | 3928.56 | 0.00 | 0.97 | 0.00 | -0.97 |
| | 8297 | 3927.43 | 3927.93 | 3928.67 | 0.00 | 0.74 | 0.00 | -0.74 |
| | 132822 | 3927.50 | 3928.00 | 3928.56 | 0.00 | 0.56 | 0.00 | -0.56 |
| | 429114 | 3927.33 | 3927.83 | 3928.81 | 0.00 | 0.98 | 0.00 | -0.98 |
| | 404265 | 3940.51 | 3941.01 | 3941.21 | 3941.21 | 0.21 | 0.21 | 0.00 |
| | 480745 | 3927.52 | 3928.02 | 3929.01 | 0.00 | 1.00 | 0.00 | -1.00 |
| | 430057 | 3941.00 | 3941.50 | 3941.93 | 3941.93 | 0.43 | 0.43 | 0.00 |
| | 609973 | 3940.46 | 3940.96 | 3941.62 | 3941.62 | 0.66 | 0.66 | 0.00 |
| | 264400 | 3927.70 | 3928.20 | 3928.88 | 0.00 | 0.68 | 0.00 | -0.68 |
| | 82686 | 3927.87 | 3928.37 | 3928.97 | 0.00 | 0.60 | 0.00 | -0.60 |
| | 264382 | 3927.72 | 3928.22 | 3929.22 | 0.00 | 1.00 | 0.00 | -1.00 |
| | 326158 | 3928.02 | 3928.52 | 3928.95 | 0.00 | 0.43 | 0.00 | -0.43 |
| | 326166 | 3928.14 | 3928.64 | 3929.01 | 0.00 | 0.37 | 0.00 | -0.37 |
| | 532889 | 3927.90 | 3928.40 | 3929.22 | 0.00 | 0.81 | 0.00 | -0.81 |
| | 287985 | 3927.73 | 3928.23 | 3929.42 | 0.00 | 1.19 | 0.00 | -1.19 |
| | 480760 | 3928.25 | 3928.75 | 3929.19 | 0.00 | 0.44 | 0.00 | -0.44 |
| | 480750 | 3928.08 | 3928.58 | 3929.46 | 0.00 | 0.87 | 0.00 | -0.87 |
| | 302624 | 3927.76 | 3928.26 | 3929.62 | 0.00 | 1.37 | 0.00 | -1.37 |
| | 660404 | 3935.51 | 3936.01 | 3936.63 | 3936.63 | 0.62 | 0.62 | 0.00 |
| | 288313 | 3928.56 | 3929.06 | 3929.42 | 0.00 | 0.36 | 0.00 | -0.36 |
| | 171361 | 3928.26 | 3928.76 | 3929.15 | 0.00 | 0.39 | 0.00 | -0.39 |
| | 571225 | 3928.24 | 3928.74 | 3929.77 | 0.00 | 1.03 | 0.00 | -1.03 |
| | 403292 | 3928.52 | 3929.02 | 3930.05 | 3928.80 | 1.03 | 0.00 | -1.03 |
| | 288003 | 3928.57 | 3929.07 | 3929.78 | 0.00 | 0.72 | 0.00 | -0.72 |
| | 507569 | 3928.40 | 3928.90 | 3930.00 | 0.00 | 1.10 | 0.00 | -1.10 |
| | 404008 | 3928.39 | 3928.89 | 3930.09 | 0.00 | 1.20 | 0.00 | -1.20 |
| | 609824 | 3928.94 | 3929.44 | 3930.43 | 3929.31 | 0.99 | 0.00 | -0.99 |
| | 532887 | 3928.68 | 3929.18 | 3930.34 | 0.00 | 1.16 | 0.00 | -1.16 |
| | 82531 | 3928.78 | 3929.28 | 3930.52 | 3929.44 | 1.24 | 0.16 | -1.08 |
| | 132740 | 3929.04 | 3929.54 | 3930.46 | 0.00 | 0.93 | 0.00 | -0.93 |
| | 592062 | 3929.19 | 3929.69 | 3930.88 | 3929.78 | 1.19 | 0.09 | -1.10 |
| | 592036 | 3931.12 | 3931.62 | 3932.13 | 3931.75 | 0.51 | 0.13 | -0.38 |
| | 287992 | 3929.46 | 3929.96 | 3930.70 | 0.00 | 0.74 | 0.00 | -0.74 |
| | 209839 | 3929.38 | 3929.88 | 3930.91 | 3929.94 | 1.02 | 0.06 | -0.96 |
| 264380 | 3929.75 | 3930.25 | 3931.10 | 3930.12 | 0.84 | 0.00 | -0.84 | |
| 403299 | 3929.68 | 3930.18 | 3930.89 | 0.00 | 0.72 | 0.00 | -0.72 | |
| 596859 | 3930.14 | 3930.64 | 3931.85 | 3930.84 | 1.20 | 0.20 | -1.01 | |
| 403290 | 3930.68 | 3931.18 | 3932.04 | 3930.84 | 0.85 | 0.00 | -0.85 | |
| 209453 | 3932.37 | 3932.87 | 3934.09 | 3934.08 | 1.22 | 1.21 | -0.01 | |
| 172486 | 3932.95 | 3933.45 | 3934.30 | 3934.29 | 0.85 | 0.84 | -0.01 | |
| 709196 | 3933.67 | 3934.17 | 3934.63 | 3934.63 | 0.46 | 0.46 | 0.00 | |
| 129837 | 3932.46 | 3932.96 | 3934.25 | 3934.24 | 1.29 | 1.28 | -0.01 | |
| 709192 | 3933.00 | 3933.50 | 3934.54 | 3934.54 | 1.04 | 1.04 | 0.00 | |
| 709193 | 3933.02 | 3933.52 | 3934.55 | 3934.55 | 1.03 | 1.03 | 0.00 | |
| 132282 | 3933.32 | 3933.82 | 3934.45 | 3934.45 | 0.64 | 0.63 | 0.00 | |
| 566331 | 3932.68 | 3933.18 | 3934.40 | 3934.39 | 1.22 | 1.21 | -0.01 | |
| 709194 | 3933.36 | 3933.86 | 3934.67 | 3934.67 | 0.82 | 0.82 | 0.00 | |
| 709183 | 3933.86 | 3934.36 | 3934.67 | 3934.67 | 0.31 | 0.31 | 0.00 | |
| 709191 | 3932.97 | 3933.47 | 3934.65 | 0.00 | 1.18 | 0.00 | -1.18 | |
| 1% Annual Chance Commercial Buildings | 171650 | 3906.95 | 3907.45 | 3907.96 | 3907.85 | 0.51 | 0.41 | -0.11 |
| | 82693 | 3909.92 | 3910.42 | 3911.00 | 3910.94 | 0.58 | 0.52 | -0.06 |
| | 326156 | 3910.50 | 3911.00 | 3911.64 | 3911.57 | 0.64 | 0.57 | -0.07 |
| | 596893 | 3911.35 | 3911.85 | 3912.75 | 3912.58 | 0.90 | 0.73 | -0.17 |
| | 33830 | 3912.86 | 3913.36 | 3914.22 | 3913.67 | 0.87 | 0.32 | -0.55 |
| | 658862 | 3914.00 | 3914.50 | 3915.34 | 3915.23 | 0.84 | 0.72 | -0.12 |
| | 81893 | 3915.25 | 3915.75 | 3915.95 | 0.00 | 0.20 | 0.00 | -0.20 |
| | 571251 | 3916.17 | 3916.67 | 3916.89 | 0.00 | 0.22 | 0.00 | -0.22 |
| | 327097 | 3915.93 | 3916.43 | 3916.89 | 0.00 | 0.46 | 0.00 | -0.46 |
| | 81819 | 3916.28 | 3916.78 | 3917.22 | 0.00 | 0.44 | 0.00 | -0.44 |
| | 429073 | 3916.14 | 3916.64 | 3917.37 | 0.00 | 0.72 | 0.00 | -0.72 |
| | 592071 | 3918.59 | 3919.09 | 3919.89 | 0.00 | 0.80 | 0.00 | -0.80 |
| | 302634 | 3919.78 | 3920.28 | 3920.79 | 3920.38 | 0.51 | 0.09 | -0.41 |
| | 403244 | 3923.35 | 3923.85 | 3924.58 | 0.00 | 0.74 | 0.00 | -0.74 |
| | 47633 | 3924.11 | 3924.61 | 3925.32 | 0.00 | 0.71 | 0.00 | -0.71 |
| | 480751 | 3925.22 | 3925.72 | 3927.27 | 3926.31 | 1.55 | 0.59 | -0.96 |
| | 82837 | 3927.77 | 3928.27 | 3928.58 | 0.00 | 0.32 | 0.00 | -0.32 |

Appendix 5H

NW3 (FMP ID: 143000111) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 328884 | 3732.83 | 3733.33 | 3733.94 | 0.00 | 0.61 | 0.00 | -0.61 |
| | 85506 | 3732.84 | 3733.34 | 3733.99 | 0.00 | 0.65 | 0.00 | -0.65 |
| 1% Annual Chance Commercial Buildings | 48824 | 3732.75 | 3733.25 | 3733.93 | 0.00 | 0.68 | 0.00 | -0.68 |
| | 136831 | 3732.79 | 3733.29 | 3733.93 | 1.00 | 0.64 | 0.00 | -0.64 |
| | 534042 | 3732.81 | 3733.31 | 3733.94 | 0.00 | 0.63 | 0.00 | -0.63 |
| | 495976 | 3734.11 | 3734.61 | 3735.13 | 0.00 | 0.52 | 0.00 | -0.52 |

Appendix 5H

NW16 (FMP ID: 143000097) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Commercial | 214028 | 3766.77 | 3767.27 | 3768.85 | 0.00 | 1.58 | 0.00 | -1.58 |
| | 457467 | 3765.39 | 3765.89 | 3766.98 | 0.00 | 1.09 | 0.00 | -1.09 |
| | 662517 | 3767.49 | 3767.99 | 3769.26 | 0.00 | 1.27 | 0.00 | -1.27 |
| 0.2% Annual Chance Residences | 252687 | 3743.75 | 3744.25 | 3744.95 | 3744.96 | 0.70 | 0.71 | 0.01 |
| | 381022 | 3745.48 | 3745.98 | 3746.28 | 3746.08 | 0.30 | 0.10 | -0.20 |
| | 355192 | 3744.68 | 3745.18 | 3745.77 | 3745.75 | 0.59 | 0.58 | -0.02 |
| | 677273 | 3764.05 | 3764.55 | 3765.09 | 0.00 | 0.55 | 0.00 | -0.55 |
| 0.2% Annual Chance Commercial | 662517 | 3767.49 | 3767.99 | 3,769.26 | 0.00 | 1.27 | 0.00 | -1.27 |
| | 214028 | 3766.77 | 3767.27 | 3,768.85 | 0.00 | 1.58 | 0.00 | -1.58 |
| | 457467 | 3765.39 | 3765.89 | 3,766.98 | 0.00 | 1.09 | 0.00 | -1.09 |

Appendix 5H

NW26 (FMP ID: 143000113) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 328884 | 3732.83 | 3733.33 | 3733.94 | 3733.85 | 0.61 | 0.52 | -0.09 |
| | 85506 | 3732.84 | 3733.34 | 3733.99 | 3733.90 | 0.65 | 0.56 | -0.09 |
| 1% Annual Chance Commercial Buildings | 48824 | 3732.75 | 3733.25 | 3733.93 | 3733.84 | 0.68 | 0.59 | -0.09 |
| | 136831 | 3732.79 | 3733.29 | 3733.93 | 3733.84 | 0.64 | 0.55 | -0.09 |
| | 534042 | 3732.81 | 3733.31 | 3733.94 | 3733.85 | 0.63 | 0.54 | -0.09 |
| | 495976 | 3734.11 | 3734.61 | 3735.13 | 3735.04 | 0.52 | 0.43 | -0.09 |

Appendix 5H

SOC4 (FMP ID: 14300021) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 321041 | 3638.39 | 3638.89 | 3639.68 | 0.00 | 0.79 | 0.00 | -0.79 |
| | 240794 | 3639.04 | 3639.54 | 3639.68 | 0.00 | 0.15 | 0.00 | -0.15 |
| | 424575 | 3638.95 | 3639.45 | 3639.68 | 0.00 | 0.23 | 0.00 | -0.23 |
| | 589463 | 3638.73 | 3639.23 | 3639.68 | 0.00 | 0.46 | 0.00 | -0.46 |
| | 372301 | 3639.10 | 3639.60 | 3639.68 | 0.00 | 0.08 | 0.00 | -0.08 |
| | 449140 | 3638.04 | 3638.54 | 3640.03 | 0.00 | 1.50 | 0.00 | -1.50 |
| | 202427 | 3639.22 | 3639.72 | 3640.41 | 0.00 | 0.69 | 0.00 | -0.69 |
| | 202448 | 3639.29 | 3639.79 | 3640.45 | 0.00 | 0.66 | 0.00 | -0.66 |
| | 240770 | 3641.87 | 3642.37 | 3642.74 | 0.00 | 0.36 | 0.00 | -0.36 |
| 242033 | 3647.78 | 3648.28 | 3649.34 | 0.00 | 1.06 | 0.00 | -1.06 | |
| 0.2% Annual Chance Residences | 475513 | 3635.48 | 3635.98 | 3636.19 | 3635.79 | 0.21 | 0.00 | -0.21 |
| | 202620 | 3639.20 | 3639.70 | 3640.11 | 3640.01 | 0.41 | 0.31 | -0.10 |
| | 28767 | 3639.45 | 3639.95 | 3640.11 | 3640.01 | 0.17 | 0.07 | -0.10 |
| | 322282 | 3639.27 | 3639.77 | 3640.11 | 3640.01 | 0.34 | 0.24 | -0.10 |
| | 321041 | 3638.39 | 3638.89 | 3640.11 | 3640.01 | 1.22 | 1.12 | -0.10 |
| | 240794 | 3639.04 | 3639.54 | 3640.11 | 3640.01 | 0.57 | 0.48 | -0.10 |
| | 424575 | 3638.95 | 3639.45 | 3640.11 | 3640.01 | 0.66 | 0.56 | -0.10 |
| | 632560 | 3639.49 | 3639.99 | 3640.11 | 3640.01 | 0.12 | 0.03 | -0.10 |
| | 423847 | 3639.21 | 3639.71 | 3640.11 | 3640.01 | 0.40 | 0.31 | -0.10 |
| | 589463 | 3638.73 | 3639.23 | 3640.11 | 3640.01 | 0.88 | 0.79 | -0.10 |
| | 242016 | 3639.19 | 3639.69 | 3640.11 | 3640.01 | 0.42 | 0.32 | -0.10 |
| | 423838 | 3639.37 | 3639.87 | 3640.11 | 3640.01 | 0.24 | 0.15 | -0.10 |
| | 372301 | 3639.10 | 3639.60 | 3640.11 | 3640.01 | 0.51 | 0.41 | -0.10 |
| | 542945 | 3639.47 | 3639.97 | 3640.11 | 3640.01 | 0.15 | 0.05 | -0.10 |
| | 474878 | 3639.38 | 3639.88 | 3640.11 | 3640.01 | 0.23 | 0.13 | -0.10 |
| | 347165 | 3639.26 | 3639.76 | 3640.11 | 3640.01 | 0.35 | 0.25 | -0.10 |
| | 164748 | 3639.28 | 3639.78 | 3640.11 | 3640.01 | 0.34 | 0.24 | -0.10 |
| | 27707 | 3639.21 | 3639.71 | 3640.11 | 3640.01 | 0.40 | 0.30 | -0.10 |
| | 671301 | 3639.59 | 3640.09 | 3640.11 | 3640.01 | 0.02 | 0.00 | -0.02 |
| | 282877 | 3639.19 | 3639.69 | 3640.11 | 3640.01 | 0.42 | 0.32 | -0.10 |
| | 45068 | 3639.51 | 3640.01 | 3640.11 | 3640.01 | 0.10 | 0.01 | -0.10 |
| | 449140 | 3638.04 | 3638.54 | 3640.47 | 3640.31 | 1.93 | 1.78 | -0.15 |
| | 202427 | 3639.22 | 3639.72 | 3640.94 | 3640.74 | 1.22 | 1.02 | -0.20 |
| | 28665 | 3640.08 | 3640.58 | 3640.99 | 3640.79 | 0.41 | 0.21 | -0.21 |
| | 202448 | 3639.29 | 3639.79 | 3641.00 | 3640.79 | 1.20 | 1.00 | -0.21 |
| | 423769 | 3640.13 | 3640.63 | 3640.93 | 3640.74 | 0.30 | 0.10 | -0.19 |
| | 28642 | 3640.42 | 3640.92 | 3640.93 | 3640.74 | 0.01 | 0.00 | -0.01 |
| | 163513 | 3640.04 | 3640.54 | 3640.95 | 3640.75 | 0.41 | 0.21 | -0.20 |
| | 240770 | 3641.87 | 3642.37 | 3642.86 | 3642.86 | 0.49 | 0.48 | -0.01 |
| | 242033 | 3647.78 | 3648.28 | 3649.78 | 3649.75 | 1.50 | 1.47 | -0.03 |
| | 282886 | 3649.90 | 3650.40 | 3650.43 | 3650.39 | 0.03 | 0.00 | -0.03 |
| | 240204 | 3638.10 | 3638.60 | 3638.80 | 3638.45 | 0.21 | 0.00 | -0.21 |
| | 475967 | 3638.07 | 3638.57 | 3638.80 | 3638.45 | 0.24 | 0.00 | -0.24 |
| | 449451 | 3637.73 | 3638.23 | 3638.80 | 3638.45 | 0.58 | 0.22 | -0.36 |
| | 164184 | 3638.07 | 3638.57 | 3638.80 | 3638.45 | 0.23 | 0.00 | -0.23 |
| | 530479 | 3637.95 | 3638.45 | 3638.80 | 3638.45 | 0.35 | 0.00 | -0.35 |
| | 449453 | 3637.47 | 3637.97 | 3638.80 | 3638.45 | 0.84 | 0.48 | -0.36 |
| | 372470 | 3638.17 | 3638.67 | 3638.80 | 3638.45 | 0.13 | 0.00 | -0.13 |
| | 122989 | 3637.95 | 3638.45 | 3638.80 | 3638.45 | 0.35 | 0.00 | -0.35 |
| | 75697 | 3637.85 | 3638.35 | 3638.80 | 3638.45 | 0.46 | 0.10 | -0.36 |
| | 202854 | 3638.29 | 3638.79 | 3638.80 | 3638.45 | 0.02 | 0.00 | -0.02 |
| | 632672 | 3637.65 | 3638.15 | 3638.80 | 3638.45 | 0.66 | 0.30 | -0.36 |
| | 75700 | 3637.78 | 3638.28 | 3638.80 | 3638.45 | 0.52 | 0.17 | -0.36 |
| | 530476 | 3637.60 | 3638.10 | 3638.80 | 3638.45 | 0.70 | 0.35 | -0.36 |
| | 655584 | 3638.22 | 3638.72 | 3638.80 | 3638.53 | 0.09 | 0.00 | -0.09 |
| | 202620 | 3639.20 | 3639.70 | 3640.11 | 3640.01 | 0.41 | 0.31 | -0.10 |
| | 321041 | 3638.39 | 3638.89 | 3640.11 | 3640.01 | 1.22 | 1.12 | -0.10 |
| 240794 | 3639.04 | 3639.54 | 3640.11 | 3640.01 | 0.57 | 0.48 | -0.10 | |
| 424575 | 3638.95 | 3639.45 | 3640.11 | 3640.01 | 0.66 | 0.56 | -0.10 | |
| 589463 | 3638.73 | 3639.23 | 3640.11 | 3640.01 | 0.88 | 0.79 | -0.10 | |
| 423838 | 3639.37 | 3639.87 | 3640.11 | 3640.01 | 0.24 | 0.15 | -0.10 | |
| 542945 | 3639.47 | 3639.97 | 3640.11 | 3640.01 | 0.15 | 0.05 | -0.10 | |
| 164748 | 3639.28 | 3639.78 | 3640.11 | 3640.01 | 0.34 | 0.24 | -0.10 | |
| 27707 | 3639.21 | 3639.71 | 3640.11 | 3640.01 | 0.40 | 0.30 | -0.10 | |
| 202427 | 3639.22 | 3639.72 | 3640.94 | 3640.74 | 1.22 | 1.02 | -0.20 | |
| 28665 | 3640.08 | 3640.58 | 3640.99 | 3640.79 | 0.41 | 0.21 | -0.21 | |
| 423769 | 3640.13 | 3640.63 | 3640.93 | 3640.74 | 0.30 | 0.10 | -0.19 | |
| 163513 | 3640.04 | 3640.54 | 3640.95 | 3640.75 | 0.41 | 0.21 | -0.20 | |
| 28767 | 3639.45 | 3639.95 | 3640.11 | 3640.01 | 0.17 | 0.07 | -0.10 | |

Appendix 5H

SOC4 (FMP ID: 143000021) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 322282 | 3639.27 | 3639.77 | 3640.11 | 3640.01 | 0.34 | 0.24 | -0.10 |
| | 632560 | 3639.49 | 3639.99 | 3640.11 | 3640.01 | 0.12 | 0.03 | -0.10 |
| | 423847 | 3639.21 | 3639.71 | 3640.11 | 3640.01 | 0.40 | 0.31 | -0.10 |
| | 474878 | 3639.38 | 3639.88 | 3640.11 | 3640.01 | 0.23 | 0.13 | -0.10 |
| | 671301 | 3639.59 | 3640.09 | 3640.11 | 3640.01 | 0.02 | 0.00 | -0.02 |
| | 282877 | 3639.19 | 3639.69 | 3640.11 | 3640.01 | 0.42 | 0.32 | -0.10 |
| | 45068 | 3639.51 | 3640.01 | 3640.11 | 3640.01 | 0.10 | 0.01 | -0.10 |
| | 449140 | 3638.04 | 3638.54 | 3640.47 | 3640.31 | 1.93 | 1.78 | -0.15 |
| | 202448 | 3639.29 | 3639.79 | 3641.00 | 3640.79 | 1.20 | 1.00 | -0.21 |
| | 655584 | 3638.22 | 3638.72 | 3638.80 | 3638.53 | 0.09 | 0.00 | -0.09 |
| | 475513 | 3635.48 | 3635.98 | 3636.19 | 3635.79 | 0.21 | 0.00 | -0.21 |
| | 242016 | 3639.19 | 3639.69 | 3640.11 | 3640.01 | 0.42 | 0.32 | -0.10 |
| | 372301 | 3639.10 | 3639.60 | 3640.11 | 3640.01 | 0.51 | 0.41 | -0.10 |
| 347165 | 3639.26 | 3639.76 | 3640.11 | 3640.01 | 0.35 | 0.25 | -0.10 | |
| 0.2% Annual Chance Commercial Buildings | 240204 | 3638.10 | 3638.60 | 3,638.80 | 3638.45 | 0.21 | 0.00 | -0.21 |
| | 475967 | 3638.07 | 3638.57 | 3,638.80 | 3638.45 | 0.24 | 0.00 | -0.24 |
| | 449451 | 3637.73 | 3638.23 | 3,638.80 | 3638.45 | 0.58 | 0.22 | -0.36 |
| | 164184 | 3638.07 | 3638.57 | 3,638.80 | 3638.45 | 0.23 | 0.00 | -0.23 |
| | 530479 | 3637.95 | 3638.45 | 3,638.80 | 3638.45 | 0.35 | 0.00 | -0.35 |
| | 449453 | 3637.47 | 3637.97 | 3,638.80 | 3638.45 | 0.84 | 0.48 | -0.36 |
| | 372470 | 3638.17 | 3638.67 | 3,638.80 | 3638.45 | 0.13 | 0.00 | -0.13 |
| | 122989 | 3637.95 | 3638.45 | 3,638.80 | 3638.45 | 0.35 | 0.00 | -0.35 |
| | 75697 | 3637.85 | 3638.35 | 3,638.80 | 3638.45 | 0.46 | 0.10 | -0.36 |
| | 202854 | 3638.29 | 3638.79 | 3,638.80 | 3638.45 | 0.02 | 0.00 | -0.02 |
| | 632672 | 3637.65 | 3638.15 | 3,638.80 | 3638.45 | 0.66 | 0.30 | -0.36 |
| | 75700 | 3637.78 | 3638.28 | 3,638.80 | 3638.45 | 0.52 | 0.17 | -0.36 |
| | 530476 | 3637.60 | 3638.10 | 3,638.80 | 3638.45 | 0.70 | 0.35 | -0.36 |

Appendix 5H

SSA4 (FMP ID: 14300011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 75658 | 3639.88 | 3640.38 | 3641.56 | 3640.44 | 1.18 | 0.06 | -1.12 |
| | 517861 | 3640.83 | 3641.33 | 3641.60 | 3640.44 | 0.28 | 0.00 | -0.28 |
| | 568680 | 3639.03 | 3639.53 | 3641.64 | 3640.44 | 2.11 | 0.90 | -1.21 |
| | 28170 | 3643.78 | 3644.28 | 3644.75 | 3643.95 | 0.47 | 0.00 | -0.47 |
| | 372519 | 3644.13 | 3644.63 | 3644.75 | 3643.95 | 0.12 | 0.00 | -0.12 |
| | 399236 | 3643.67 | 3644.17 | 3644.76 | 3643.98 | 0.59 | 0.00 | -0.59 |
| | 122836 | 3644.26 | 3644.76 | 3644.77 | 3643.99 | 0.01 | 0.00 | -0.01 |
| | 589672 | 3643.86 | 3644.36 | 3644.77 | 3644.01 | 0.41 | 0.00 | -0.41 |
| | 242628 | 3643.96 | 3644.46 | 3644.77 | 3644.00 | 0.31 | 0.00 | -0.31 |
| | 492374 | 3644.05 | 3644.55 | 3644.78 | 3644.01 | 0.23 | 0.00 | -0.23 |
| | 564041 | 3644.24 | 3644.74 | 3644.83 | 3644.03 | 0.09 | 0.00 | -0.09 |
| | 203019 | 3643.74 | 3644.24 | 3644.89 | 3644.05 | 0.65 | 0.00 | -0.65 |
| | 492381 | 3644.11 | 3644.61 | 3645.06 | 3644.06 | 0.45 | 0.00 | -0.45 |
| | 424635 | 3650.66 | 3651.16 | 3651.42 | 3650.57 | 0.26 | 0.00 | -0.26 |
| | 564274 | 3650.10 | 3650.60 | 3651.42 | 3650.57 | 0.82 | 0.00 | -0.82 |
| | 284099 | 3650.31 | 3650.81 | 3651.42 | 3650.57 | 0.61 | 0.00 | -0.61 |
| | 492606 | 3650.33 | 3650.83 | 3651.42 | 3650.57 | 0.59 | 0.00 | -0.59 |
| | 628601 | 3652.62 | 3653.12 | 3654.57 | 3654.03 | 1.45 | 0.90 | -0.55 |
| | 589968 | 3653.59 | 3654.09 | 3654.62 | 3653.91 | 0.52 | 0.00 | -0.52 |
| | 633160 | 3653.27 | 3653.77 | 3654.62 | 3653.91 | 0.84 | 0.14 | -0.70 |
| | 348053 | 3648.84 | 3649.34 | 3651.42 | 3650.57 | 2.08 | 1.24 | -0.84 |
| | 633025 | 3648.87 | 3649.37 | 3651.43 | 3650.61 | 2.06 | 1.24 | -0.82 |
| | 671745 | 3648.29 | 3648.79 | 3651.42 | 3650.57 | 2.63 | 1.78 | -0.84 |
| | 124126 | 3649.37 | 3649.87 | 3651.42 | 3650.57 | 1.55 | 0.71 | -0.84 |
| | 322978 | 3649.63 | 3650.13 | 3651.49 | 3650.69 | 1.36 | 0.56 | -0.80 |
| | 164642 | 3649.14 | 3649.64 | 3651.42 | 3650.57 | 1.78 | 0.94 | -0.84 |
| | 655584 | 3638.22 | 3638.72 | 3640.21 | 3638.20 | 1.50 | 0.00 | -1.50 |
| | 283514 | 3639.09 | 3639.59 | 3640.31 | 3638.83 | 0.72 | 0.00 | -0.72 |
| | 3407 | 3639.66 | 3640.16 | 3641.43 | 3640.43 | 1.26 | 0.27 | -1.00 |
| | 123037 | 3638.50 | 3639.00 | 3641.49 | 3640.43 | 2.49 | 1.43 | -1.06 |
| | 45365 | 3641.74 | 3642.24 | 3644.75 | 0.00 | 2.51 | 0.00 | -2.51 |
| | 517973 | 3643.80 | 3644.30 | 3644.75 | 3643.95 | 0.46 | 0.00 | -0.46 |
| | 202222 | 3643.95 | 3644.45 | 3644.75 | 3643.95 | 0.30 | 0.00 | -0.30 |
| | 300175 | 3643.98 | 3644.48 | 3644.75 | 3643.95 | 0.27 | 0.00 | -0.27 |
| | 204029 | 3643.81 | 3644.31 | 3644.75 | 3643.95 | 0.44 | 0.00 | -0.44 |
| | 399262 | 3643.71 | 3644.21 | 3644.75 | 3643.95 | 0.54 | 0.00 | -0.54 |
| | 45337 | 3644.04 | 3644.54 | 3644.75 | 3643.95 | 0.21 | 0.00 | -0.21 |
| | 283301 | 3642.28 | 3642.78 | 3644.76 | 3643.44 | 1.98 | 0.66 | -1.32 |
| | 398344 | 3643.23 | 3643.73 | 3644.75 | 3643.95 | 1.02 | 0.23 | -0.80 |
| | 568810 | 3643.88 | 3644.38 | 3644.75 | 3643.95 | 0.37 | 0.00 | -0.37 |
| | 202235 | 3644.03 | 3644.53 | 3644.75 | 3643.96 | 0.22 | 0.00 | -0.22 |
| | 240339 | 3643.84 | 3644.34 | 3644.71 | 3643.98 | 0.37 | 0.00 | -0.37 |
| | 240385 | 3644.18 | 3644.68 | 3644.76 | 3643.95 | 0.08 | 0.00 | -0.08 |
| | 607381 | 3644.09 | 3644.59 | 3644.69 | 3643.98 | 0.10 | 0.00 | -0.10 |
| | 374724 | 3643.75 | 3644.25 | 3644.63 | 3643.97 | 0.38 | 0.00 | -0.38 |
| | 476650 | 3650.43 | 3650.93 | 3651.42 | 3650.57 | 0.49 | 0.00 | -0.49 |
| | 164865 | 3650.46 | 3650.96 | 3651.42 | 3650.57 | 0.46 | 0.00 | -0.46 |
| | 492670 | 3650.17 | 3650.67 | 3651.42 | 3650.57 | 0.74 | 0.00 | -0.74 |
| | 76431 | 3650.34 | 3650.84 | 3651.42 | 3650.57 | 0.58 | 0.00 | -0.58 |
| | 425495 | 3650.67 | 3651.17 | 3651.42 | 3650.57 | 0.25 | 0.00 | -0.25 |
| | 45614 | 3650.15 | 3650.65 | 3651.42 | 3650.57 | 0.77 | 0.00 | -0.77 |
| | 347852 | 3650.28 | 3650.78 | 3651.42 | 3650.57 | 0.64 | 0.00 | -0.64 |
| | 45585 | 3650.66 | 3651.16 | 3651.42 | 3650.57 | 0.26 | 0.00 | -0.26 |
| | 347842 | 3650.62 | 3651.12 | 3651.42 | 3650.57 | 0.30 | 0.00 | -0.30 |
| 240884 | 3650.35 | 3650.85 | 3651.42 | 3650.57 | 0.57 | 0.00 | -0.57 | |
| 203625 | 3650.53 | 3651.03 | 3651.42 | 3650.57 | 0.39 | 0.00 | -0.39 | |
| 29545 | 3650.76 | 3651.26 | 3651.42 | 3650.57 | 0.16 | 0.00 | -0.16 | |
| 654367 | 3650.44 | 3650.94 | 3651.42 | 3650.57 | 0.47 | 0.00 | -0.47 | |
| 399704 | 3650.05 | 3650.55 | 3651.42 | 3650.57 | 0.87 | 0.02 | -0.85 | |
| 323180 | 3650.25 | 3650.75 | 3651.42 | 3650.57 | 0.67 | 0.00 | -0.67 | |
| 240854 | 3650.41 | 3650.91 | 3651.42 | 3650.57 | 0.51 | 0.00 | -0.51 | |
| 321663 | 3650.51 | 3651.01 | 3651.42 | 3650.57 | 0.41 | 0.00 | -0.41 | |
| 564278 | 3650.48 | 3650.98 | 3651.42 | 3650.57 | 0.44 | 0.00 | -0.44 | |
| 656111 | 3650.23 | 3650.73 | 3651.42 | 3650.57 | 0.69 | 0.00 | -0.69 | |
| 589905 | 3650.19 | 3650.69 | 3651.42 | 3650.57 | 0.73 | 0.00 | -0.73 | |
| 628619 | 3650.51 | 3651.01 | 3651.45 | 3650.57 | 0.44 | 0.00 | -0.44 | |
| 594241 | 3652.17 | 3652.67 | 3653.90 | 3652.97 | 1.23 | 0.30 | -0.93 | |
| 321583 | 3651.96 | 3652.46 | 3654.03 | 3653.04 | 1.57 | 0.58 | -0.99 | |
| 543410 | 3652.20 | 3652.70 | 3653.96 | 3652.91 | 1.26 | 0.21 | -1.04 | |

Appendix 5H

SSA4 (FMP ID: 14300011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 323207 | 3652.72 | 3653.22 | 3654.58 | 3654.02 | 1.36 | 0.80 | -0.55 |
| | 203838 | 3652.82 | 3653.32 | 3654.58 | 3654.02 | 1.26 | 0.71 | -0.55 |
| | 321677 | 3653.55 | 3654.05 | 3654.58 | 3654.02 | 0.53 | 0.00 | -0.53 |
| | 243269 | 3652.96 | 3653.46 | 3654.57 | 3654.02 | 1.11 | 0.56 | -0.55 |
| | 240893 | 3653.31 | 3653.81 | 3654.57 | 3654.02 | 0.75 | 0.20 | -0.55 |
| | 475847 | 3652.94 | 3653.44 | 3654.58 | 3654.02 | 1.14 | 0.59 | -0.56 |
| | 372796 | 3653.45 | 3653.95 | 3654.58 | 3654.02 | 0.63 | 0.07 | -0.56 |
| | 241949 | 3652.84 | 3653.34 | 3654.58 | 3654.02 | 1.24 | 0.68 | -0.56 |
| | 425491 | 3652.70 | 3653.20 | 3654.58 | 3654.02 | 1.37 | 0.82 | -0.56 |
| | 424683 | 3653.62 | 3654.12 | 3654.58 | 3654.02 | 0.45 | 0.00 | -0.45 |
| | 424642 | 3653.18 | 3653.68 | 3654.58 | 3654.02 | 0.90 | 0.34 | -0.55 |
| | 4128 | 3653.67 | 3654.17 | 3654.58 | 3654.02 | 0.41 | 0.00 | -0.41 |
| | 347972 | 3652.84 | 3653.34 | 3654.58 | 3654.02 | 1.24 | 0.68 | -0.56 |
| | 656145 | 3652.89 | 3653.39 | 3654.58 | 3654.02 | 1.18 | 0.63 | -0.56 |
| | 476665 | 3652.93 | 3653.43 | 3654.58 | 3654.02 | 1.15 | 0.59 | -0.56 |
| | 425479 | 3653.13 | 3653.63 | 3654.58 | 3654.02 | 0.95 | 0.39 | -0.56 |
| | 241051 | 3653.24 | 3653.74 | 3654.58 | 3654.02 | 0.84 | 0.29 | -0.56 |
| | 656166 | 3653.20 | 3653.70 | 3654.58 | 3654.02 | 0.88 | 0.32 | -0.56 |
| | 300481 | 3653.07 | 3653.57 | 3654.58 | 3654.02 | 1.01 | 0.45 | -0.56 |
| | 124487 | 3652.91 | 3653.41 | 3654.58 | 3654.02 | 1.17 | 0.62 | -0.56 |
| | 518202 | 3652.97 | 3653.47 | 3654.58 | 3654.02 | 1.11 | 0.56 | -0.56 |
| | 399725 | 3653.05 | 3653.55 | 3654.58 | 3654.02 | 1.03 | 0.48 | -0.56 |
| | 450104 | 3653.87 | 3654.37 | 3654.58 | 3654.02 | 0.21 | 0.00 | -0.21 |
| | 569089 | 3652.29 | 3652.79 | 3654.58 | 3654.02 | 1.79 | 1.23 | -0.56 |
| | 76741 | 3653.52 | 3654.02 | 3654.58 | 3654.02 | 0.56 | 0.00 | -0.56 |
| | 76722 | 3653.46 | 3653.96 | 3654.58 | 3654.02 | 0.62 | 0.07 | -0.56 |
| | 300470 | 3653.21 | 3653.71 | 3654.58 | 3654.02 | 0.87 | 0.32 | -0.56 |
| | 594336 | 3654.02 | 3654.52 | 3654.58 | 3654.02 | 0.06 | 0.00 | -0.06 |
| | 45618 | 3653.45 | 3653.95 | 3654.58 | 3654.02 | 0.63 | 0.07 | -0.56 |
| | 476647 | 3653.87 | 3654.37 | 3654.58 | 3654.02 | 0.21 | 0.00 | -0.21 |
| | 518220 | 3653.72 | 3654.22 | 3654.58 | 3654.02 | 0.36 | 0.00 | -0.36 |
| | 323224 | 3652.93 | 3653.43 | 3654.58 | 3654.02 | 1.15 | 0.59 | -0.56 |
| | 348000 | 3653.53 | 3654.03 | 3654.58 | 3654.02 | 0.55 | 0.00 | -0.55 |
| | 372794 | 3653.29 | 3653.79 | 3654.58 | 3654.02 | 0.79 | 0.23 | -0.56 |
| | 607732 | 3654.04 | 3654.54 | 3654.58 | 3654.02 | 0.04 | 0.00 | -0.04 |
| | 165242 | 3653.73 | 3654.23 | 3654.58 | 3654.02 | 0.35 | 0.00 | -0.35 |
| | 204856 | 3653.45 | 3653.95 | 3654.58 | 3654.02 | 0.64 | 0.07 | -0.56 |
| | 124413 | 3652.88 | 3653.38 | 3654.58 | 3654.02 | 1.21 | 0.64 | -0.56 |
| | 123422 | 3653.58 | 3654.08 | 3654.72 | 3654.67 | 0.64 | 0.59 | -0.05 |
| | 399823 | 3653.78 | 3654.28 | 3654.59 | 3654.02 | 0.30 | 0.00 | -0.30 |
| | 45622 | 3653.75 | 3654.25 | 3654.59 | 3654.02 | 0.34 | 0.00 | -0.34 |
| | 202898 | 3654.39 | 3654.89 | 3654.59 | 3654.02 | 0.99 | 0.00 | -0.99 |
| | 628692 | 3653.90 | 3654.40 | 3654.59 | 3654.02 | 0.18 | 0.00 | -0.18 |
| | 348241 | 3653.65 | 3654.15 | 3654.59 | 3654.02 | 0.43 | 0.00 | -0.43 |
| | 283736 | 3653.72 | 3654.22 | 3654.62 | 3654.03 | 0.40 | 0.00 | -0.40 |
| | 124103 | 3654.56 | 3655.06 | 3655.18 | 3655.14 | 0.12 | 0.09 | -0.04 |
| | 607616 | 3654.08 | 3654.58 | 3655.19 | 3655.15 | 0.61 | 0.57 | -0.04 |
| | 425482 | 3654.02 | 3654.52 | 3654.66 | 3654.04 | 0.14 | 0.00 | -0.14 |
| | 241953 | 3653.50 | 3654.00 | 3654.66 | 3654.04 | 0.65 | 0.03 | -0.62 |
| | 283968 | 3653.66 | 3654.16 | 3655.43 | 3655.39 | 1.27 | 1.23 | -0.04 |
| 243273 | 3654.14 | 3654.64 | 3654.69 | 3654.05 | 0.05 | 0.00 | -0.05 | |
| 654275 | 3692.37 | 3692.87 | 3693.13 | 3693.07 | 0.25 | 0.20 | -0.05 | |
| 166067 | 3653.71 | 3654.21 | 3656.37 | 3656.34 | 2.16 | 2.12 | -0.04 | |
| 76307 | 3693.53 | 3694.03 | 3695.38 | 3695.33 | 1.36 | 1.30 | -0.05 | |
| 543387 | 3671.15 | 3671.65 | 3673.23 | 3673.16 | 1.58 | 1.52 | -0.06 | |
| 476529 | 3655.41 | 3655.91 | 3655.98 | 3655.86 | 0.08 | 0.00 | -0.08 | |
| 398766 | 3655.48 | 3655.98 | 3656.45 | 3656.23 | 0.46 | 0.25 | -0.22 | |
| 399849 | 3653.73 | 3654.23 | 3654.60 | 3653.91 | 0.37 | 0.00 | -0.37 | |
| 29414 | 3700.57 | 3701.07 | 3701.54 | 3701.45 | 0.47 | 0.38 | -0.09 | |
| 240867 | 3655.96 | 3656.46 | 3657.10 | 3656.67 | 0.63 | 0.21 | -0.43 | |
| 203037 | 3653.84 | 3654.34 | 3654.60 | 3653.91 | 0.27 | 0.00 | -0.27 | |
| 75347 | 3653.72 | 3654.22 | 3654.60 | 3653.91 | 0.38 | 0.00 | -0.38 | |
| 594147 | 3700.03 | 3700.53 | 3702.40 | 3702.27 | 1.87 | 1.74 | -0.13 | |
| 399848 | 3653.61 | 3654.11 | 3654.60 | 3653.91 | 0.49 | 0.00 | -0.49 | |
| 399865 | 3653.92 | 3654.42 | 3654.60 | 3653.91 | 0.18 | 0.00 | -0.18 | |
| 372846 | 3654.06 | 3654.56 | 3654.60 | 3653.91 | 0.04 | 0.00 | -0.04 | |
| 492539 | 3700.66 | 3701.16 | 3703.17 | 3702.94 | 2.02 | 1.78 | -0.24 | |
| 399571 | 3688.72 | 3689.22 | 3694.76 | 3694.33 | 5.54 | 5.11 | -0.43 | |
| 654546 | 3653.58 | 3654.08 | 3654.60 | 3653.91 | 0.52 | 0.00 | -0.52 | |

Appendix 5H

SSA4 (FMP ID: 143000011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 1% Annual Chance Residences | 607764 | 3653.46 | 3653.96 | 3654.60 | 3653.91 | 0.64 | 0.00 | -0.64 |
| | 449833 | 3703.24 | 3703.74 | 3704.36 | 3704.19 | 0.63 | 0.45 | -0.18 |
| | 243447 | 3653.74 | 3654.24 | 3654.60 | 3653.91 | 0.37 | 0.00 | -0.37 |
| | 323083 | 3659.50 | 3660.00 | 3665.00 | 3664.65 | 5.00 | 4.66 | -0.34 |
| | 451120 | 3652.65 | 3653.15 | 3654.60 | 3653.91 | 1.46 | 0.76 | -0.70 |
| | 628606 | 3659.69 | 3660.19 | 3662.25 | 3661.69 | 2.06 | 1.50 | -0.56 |
| | 492701 | 3652.55 | 3653.05 | 3654.60 | 3653.91 | 1.56 | 0.86 | -0.70 |
| | 166442 | 3652.58 | 3653.08 | 3654.60 | 3653.91 | 1.52 | 0.82 | -0.70 |
| | 632983 | 3704.12 | 3704.62 | 3705.61 | 3705.41 | 0.99 | 0.79 | -0.20 |
| | 594145 | 3705.38 | 3705.88 | 3706.35 | 3706.20 | 0.47 | 0.32 | -0.15 |
| | 3930 | 3705.25 | 3705.75 | 3706.35 | 3706.17 | 0.59 | 0.41 | -0.18 |
| | 124142 | 3705.76 | 3706.26 | 3706.55 | 3706.34 | 0.29 | 0.07 | -0.21 |
| | 29518 | 3700.71 | 3701.21 | 3701.65 | 3701.12 | 0.44 | 0.00 | -0.44 |
| | 530664 | 3704.53 | 3705.03 | 3707.42 | 3707.25 | 2.40 | 2.22 | -0.18 |
| | 424489 | 3706.04 | 3706.54 | 3706.83 | 3706.56 | 0.29 | 0.02 | -0.26 |
| | 323050 | 3700.31 | 3700.81 | 3701.10 | 3700.68 | 0.29 | 0.00 | -0.29 |
| | 123661 | 3669.93 | 3670.43 | 3672.01 | 3671.37 | 1.58 | 0.94 | -0.64 |
| | 425193 | 3716.37 | 3716.87 | 3717.83 | 3717.26 | 0.96 | 0.39 | -0.57 |
| | 76960 | 3653.67 | 3654.17 | 3656.32 | 3653.88 | 2.14 | 0.00 | -2.14 |
| | 450998 | 3654.47 | 3654.97 | 3655.43 | 3653.91 | 0.46 | 0.00 | -0.46 |
| | 203626 | 3716.31 | 3716.81 | 3716.92 | 3716.15 | 0.11 | 0.00 | -0.11 |
| | 671780 | 3717.58 | 3718.08 | 3718.25 | 3717.69 | 0.17 | 0.00 | -0.17 |
| | 166085 | 3717.94 | 3718.44 | 3718.84 | 3718.22 | 0.40 | 0.00 | -0.40 |
| | 450061 | 3713.23 | 3713.73 | 3714.20 | 3712.98 | 0.47 | 0.00 | -0.47 |
| | 425498 | 3713.12 | 3713.62 | 3713.98 | 3712.97 | 0.36 | 0.00 | -0.36 |
| 505420 | 3713.16 | 3713.66 | 3714.43 | 3713.15 | 0.77 | 0.00 | -0.77 | |
| 654152 | 3802.29 | 3802.79 | 3803.40 | 3802.59 | 0.62 | 0.00 | -0.62 | |
| 492626 | 3650.13 | 3650.63 | 3651.42 | 3650.57 | 0.79 | 0.00 | -0.79 | |
| 569059 | 3655.23 | 3655.73 | 3655.74 | 3655.51 | 0.01 | 0.00 | -0.01 | |
| 164845 | 3700.53 | 3701.03 | 3701.20 | 3700.69 | 0.18 | 0.00 | -0.18 | |
| 1% Annual Chance Commercial Buildings | 607385 | 3644.05 | 3644.55 | 3644.72 | 3643.99 | 0.17 | 0.00 | -0.17 |
| | 321669 | 3650.64 | 3651.14 | 3651.42 | 3650.57 | 0.28 | 0.00 | -0.28 |
| | 321669 | 3650.64 | 3651.14 | 3651.42 | 3650.57 | 0.28 | 0.00 | -0.28 |
| | 607688 | 3653.27 | 3653.77 | 3653.90 | 3652.97 | 0.13 | 0.00 | -0.13 |
| | 243267 | 3652.84 | 3653.34 | 3653.91 | 3652.97 | 0.57 | 0.00 | -0.57 |
| | 372737 | 3652.56 | 3653.06 | 3653.93 | 3653.04 | 0.87 | 0.00 | -0.87 |
| | 29564 | 3652.93 | 3653.43 | 3654.56 | 3654.02 | 1.12 | 0.59 | -0.54 |
| | 76144 | 3689.91 | 3690.41 | 3691.16 | 3691.11 | 0.75 | 0.70 | -0.05 |
| | 204453 | 3689.77 | 3690.27 | 3691.35 | 3691.30 | 1.08 | 1.03 | -0.05 |
| | 262148 | 3656.07 | 3656.57 | 3657.26 | 3657.18 | 0.68 | 0.61 | -0.07 |
| | 607634 | 3655.35 | 3655.85 | 3656.06 | 3656.03 | 0.21 | 0.18 | -0.03 |
| | 450881 | 3655.26 | 3655.76 | 3656.16 | 3656.12 | 0.40 | 0.37 | -0.03 |
| | 375080 | 3654.22 | 3654.72 | 3656.33 | 3656.28 | 1.61 | 1.56 | -0.05 |
| | 300364 | 3656.88 | 3657.38 | 3658.21 | 3658.13 | 0.83 | 0.76 | -0.07 |
| | 543358 | 3713.68 | 3714.18 | 3714.98 | 3714.54 | 0.80 | 0.36 | -0.43 |
| | 372634 | 3764.50 | 3765.00 | 3765.31 | 3765.30 | 0.31 | 0.30 | -0.01 |
| | 74741 | 3778.50 | 3779.00 | 3779.63 | 3779.62 | 0.63 | 0.63 | 0.00 |
| 0.2% Annual Chance Residences | 202620 | 3639.20 | 3639.70 | 3640.10 | 0.00 | 0.40 | 0.00 | -0.40 |
| | 321041 | 3638.39 | 3638.89 | 3640.10 | 0.00 | 1.20 | 0.00 | -1.20 |
| | 240794 | 3639.04 | 3639.54 | 3640.11 | 0.00 | 0.57 | 0.00 | -0.57 |
| | 424575 | 3638.95 | 3639.45 | 3640.12 | 0.00 | 0.66 | 0.00 | -0.66 |
| | 589463 | 3638.73 | 3639.23 | 3640.10 | 0.00 | 0.87 | 0.00 | -0.87 |
| | 423838 | 3639.37 | 3639.87 | 3640.08 | 0.00 | 0.21 | 0.00 | -0.21 |
| | 542945 | 3639.47 | 3639.97 | 3640.07 | 0.00 | 0.10 | 0.00 | -0.10 |
| | 164748 | 3639.28 | 3639.78 | 3640.07 | 0.00 | 0.29 | 0.00 | -0.29 |
| | 27707 | 3639.21 | 3639.71 | 3640.07 | 0.00 | 0.36 | 0.00 | -0.36 |
| | 202427 | 3639.22 | 3639.72 | 3639.88 | 0.00 | 0.16 | 0.00 | -0.16 |
| | 119994 | 3640.60 | 3641.10 | 3641.17 | 0.00 | 0.06 | 0.00 | -0.06 |
| | 75718 | 3639.02 | 3639.52 | 3641.18 | 3639.77 | 1.66 | 0.25 | -1.41 |
| | 75658 | 3639.88 | 3640.38 | 3642.46 | 3641.43 | 2.08 | 1.06 | -1.02 |
| | 517861 | 3640.83 | 3641.33 | 3642.55 | 3641.48 | 1.23 | 0.15 | -1.08 |
| | 568680 | 3639.03 | 3639.53 | 3642.62 | 3641.51 | 3.09 | 1.98 | -1.11 |
| | 374749 | 3644.63 | 3645.13 | 3645.18 | 3644.72 | 0.05 | 0.00 | -0.05 |
| | 347623 | 3644.56 | 3645.06 | 3645.18 | 3644.72 | 0.12 | 0.00 | -0.12 |
| | 475292 | 3644.36 | 3644.86 | 3645.18 | 3644.72 | 0.32 | 0.00 | -0.32 |
| | 28170 | 3643.78 | 3644.28 | 3645.18 | 3644.72 | 0.91 | 0.45 | -0.46 |
| | 321270 | 3644.65 | 3645.15 | 3645.18 | 3644.72 | 0.04 | 0.00 | -0.04 |
| 372519 | 3644.13 | 3644.63 | 3645.18 | 3644.72 | 0.55 | 0.10 | -0.46 | |
| 399236 | 3643.67 | 3644.17 | 3645.19 | 3644.73 | 1.02 | 0.56 | -0.46 | |

Appendix 5H

SSA4 (FMP ID: 14300011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 122836 | 3644.26 | 3644.76 | 3645.20 | 3644.75 | 0.44 | 0.00 | -0.44 |
| | 589672 | 3643.86 | 3644.36 | 3645.20 | 3644.75 | 0.84 | 0.39 | -0.45 |
| | 242628 | 3643.96 | 3644.46 | 3645.19 | 3644.74 | 0.74 | 0.28 | -0.45 |
| | 492374 | 3644.05 | 3644.55 | 3645.20 | 3644.75 | 0.65 | 0.20 | -0.45 |
| | 564041 | 3644.24 | 3644.74 | 3645.25 | 3644.80 | 0.51 | 0.06 | -0.45 |
| | 203019 | 3643.74 | 3644.24 | 3645.29 | 3644.83 | 1.05 | 0.59 | -0.46 |
| | 492381 | 3644.11 | 3644.61 | 3645.48 | 3644.91 | 0.87 | 0.30 | -0.57 |
| | 424635 | 3650.66 | 3651.16 | 3651.90 | 3651.05 | 0.74 | 0.00 | -0.74 |
| | 564274 | 3650.10 | 3650.60 | 3651.90 | 3651.05 | 1.30 | 0.46 | -0.85 |
| | 284099 | 3650.31 | 3650.81 | 3651.90 | 3651.05 | 1.09 | 0.25 | -0.85 |
| | 492606 | 3650.33 | 3650.83 | 3651.90 | 3651.05 | 1.07 | 0.23 | -0.85 |
| | 348198 | 3651.00 | 3651.50 | 3651.90 | 3651.05 | 0.40 | 0.00 | -0.40 |
| | 628601 | 3652.62 | 3653.12 | 3654.98 | 3654.27 | 1.86 | 1.14 | -0.71 |
| | 589968 | 3653.59 | 3654.09 | 3655.01 | 3654.37 | 0.92 | 0.28 | -0.64 |
| | 633160 | 3653.27 | 3653.77 | 3655.02 | 3654.37 | 1.24 | 0.59 | -0.65 |
| | 120424 | 3744.33 | 3744.83 | 3744.95 | 0.00 | 0.12 | 0.00 | -0.12 |
| | 398574 | 3749.86 | 3750.36 | 3751.08 | 0.00 | 0.72 | 0.00 | -0.72 |
| | 204230 | 3644.35 | 3644.85 | 3645.21 | 3644.73 | 0.36 | 0.00 | -0.36 |
| | 164424 | 3643.98 | 3644.48 | 3645.21 | 3644.73 | 0.72 | 0.24 | -0.48 |
| | 492427 | 3644.24 | 3644.74 | 3645.21 | 3644.73 | 0.46 | 0.00 | -0.46 |
| | 348053 | 3648.84 | 3649.34 | 3651.90 | 3651.05 | 2.56 | 1.72 | -0.84 |
| | 633025 | 3648.87 | 3649.37 | 3651.91 | 3651.07 | 2.53 | 1.70 | -0.83 |
| | 671745 | 3648.29 | 3648.79 | 3651.90 | 3651.05 | 3.11 | 2.26 | -0.84 |
| | 124126 | 3649.37 | 3649.87 | 3651.90 | 3651.05 | 2.03 | 1.19 | -0.84 |
| | 322978 | 3649.63 | 3650.13 | 3651.92 | 3651.11 | 1.79 | 0.98 | -0.81 |
| | 164642 | 3649.14 | 3649.64 | 3651.90 | 3651.05 | 2.26 | 1.42 | -0.84 |
| | 166229 | 3651.27 | 3651.77 | 3651.97 | 3651.05 | 0.20 | 0.00 | -0.20 |
| | 424811 | 3653.81 | 3654.31 | 3654.93 | 3654.23 | 0.62 | 0.00 | -0.62 |
| | 165878 | 3747.06 | 3747.56 | 3747.74 | 0.00 | 0.19 | 0.00 | -0.19 |
| | 28767 | 3639.45 | 3639.95 | 3640.10 | 0.00 | 0.15 | 0.00 | -0.15 |
| | 322282 | 3639.27 | 3639.77 | 3640.10 | 0.00 | 0.32 | 0.00 | -0.32 |
| | 632560 | 3639.49 | 3639.99 | 3640.20 | 3639.05 | 0.21 | 0.00 | -0.21 |
| | 423847 | 3639.21 | 3639.71 | 3640.09 | 0.00 | 0.39 | 0.00 | -0.39 |
| | 74068 | 3639.53 | 3640.03 | 3640.36 | 3639.36 | 0.33 | 0.00 | -0.33 |
| | 474878 | 3639.38 | 3639.88 | 3640.07 | 0.00 | 0.19 | 0.00 | -0.19 |
| | 543036 | 3639.62 | 3640.12 | 3640.24 | 0.00 | 0.12 | 0.00 | -0.12 |
| | 282877 | 3639.19 | 3639.69 | 3640.10 | 0.00 | 0.40 | 0.00 | -0.40 |
| | 45068 | 3639.51 | 3640.01 | 3640.07 | 0.00 | 0.06 | 0.00 | -0.06 |
| | 628196 | 3639.74 | 3640.24 | 3640.34 | 0.00 | 0.10 | 0.00 | -0.10 |
| | 589480 | 3639.71 | 3640.21 | 3640.35 | 0.00 | 0.13 | 0.00 | -0.13 |
| | 449140 | 3638.04 | 3638.54 | 3640.03 | 0.00 | 1.50 | 0.00 | -1.50 |
| | 202448 | 3639.29 | 3639.79 | 3639.83 | 0.00 | 0.04 | 0.00 | -0.04 |
| | 398966 | 3639.81 | 3640.31 | 3641.17 | 3639.68 | 0.85 | 0.00 | -0.85 |
| | 202051 | 3639.35 | 3639.85 | 3641.17 | 3639.68 | 1.31 | 0.00 | -1.31 |
| | 240107 | 3640.09 | 3640.59 | 3641.17 | 0.00 | 0.58 | 0.00 | -0.58 |
| | 589589 | 3638.50 | 3639.00 | 3641.17 | 3639.69 | 2.17 | 0.68 | -1.48 |
| | 655584 | 3638.22 | 3638.72 | 3641.17 | 3639.68 | 2.45 | 0.97 | -1.49 |
| | 2538 | 3639.44 | 3639.94 | 3641.17 | 3639.68 | 1.23 | 0.00 | -1.23 |
| | 283115 | 3639.37 | 3639.87 | 3641.17 | 3639.69 | 1.30 | 0.00 | -1.30 |
| | 492209 | 3640.55 | 3641.05 | 3641.17 | 0.00 | 0.12 | 0.00 | -0.12 |
| 120012 | 3640.64 | 3641.14 | 3641.17 | 0.00 | 0.03 | 0.00 | -0.03 | |
| 475938 | 3639.36 | 3639.86 | 3641.17 | 3639.69 | 1.31 | 0.00 | -1.31 | |
| 543109 | 3639.55 | 3640.05 | 3641.17 | 3639.73 | 1.12 | 0.00 | -1.12 | |
| 450298 | 3639.68 | 3640.18 | 3641.17 | 3639.70 | 1.00 | 0.00 | -1.00 | |
| 322526 | 3639.85 | 3640.35 | 3641.18 | 3639.80 | 0.83 | 0.00 | -0.83 | |
| 45209 | 3640.11 | 3640.61 | 3641.17 | 0.00 | 0.56 | 0.00 | -0.56 | |
| 300047 | 3639.93 | 3640.43 | 3641.17 | 3639.79 | 0.74 | 0.00 | -0.74 | |
| 632647 | 3639.96 | 3640.46 | 3641.18 | 3640.00 | 0.72 | 0.00 | -0.72 | |
| 163988 | 3640.40 | 3640.90 | 3641.18 | 3640.37 | 0.28 | 0.00 | -0.28 | |
| 163849 | 3640.52 | 3641.02 | 3641.18 | 0.00 | 0.17 | 0.00 | -0.17 | |
| 164067 | 3639.46 | 3639.96 | 3641.19 | 3639.88 | 1.22 | 0.00 | -1.22 | |
| 74387 | 3639.77 | 3640.27 | 3641.19 | 3639.87 | 0.92 | 0.00 | -0.92 | |
| 283514 | 3639.09 | 3639.59 | 3641.19 | 3639.87 | 1.60 | 0.29 | -1.31 | |
| 424153 | 3639.18 | 3639.68 | 3641.19 | 3639.87 | 1.51 | 0.19 | -1.32 | |
| 3407 | 3639.66 | 3640.16 | 3642.20 | 3641.31 | 2.03 | 1.15 | -0.88 | |
| 123037 | 3638.50 | 3639.00 | 3642.34 | 3641.37 | 3.34 | 2.37 | -0.97 | |
| 425010 | 3643.73 | 3644.23 | 3645.20 | 3644.73 | 0.97 | 0.50 | -0.48 | |
| 322721 | 3644.46 | 3644.96 | 3645.20 | 3644.73 | 0.24 | 0.00 | -0.24 | |
| 505220 | 3642.14 | 3642.64 | 3645.20 | 3644.73 | 2.57 | 2.09 | -0.48 | |

Appendix 5H

SSA4 (FMP ID: 14300011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 607313 | 3641.09 | 3641.59 | 3642.79 | 3641.85 | 1.20 | 0.26 | -0.94 |
| | 165656 | 3644.26 | 3644.76 | 3645.20 | 3644.73 | 0.44 | 0.00 | -0.44 |
| | 45365 | 3641.74 | 3642.24 | 3645.20 | 3644.73 | 2.96 | 2.48 | -0.48 |
| | 517973 | 3643.80 | 3644.30 | 3645.19 | 3644.73 | 0.90 | 0.43 | -0.47 |
| | 203175 | 3644.33 | 3644.83 | 3645.20 | 3644.73 | 0.37 | 0.00 | -0.37 |
| | 202222 | 3643.95 | 3644.45 | 3645.18 | 3644.72 | 0.72 | 0.27 | -0.45 |
| | 300175 | 3643.98 | 3644.48 | 3645.18 | 3644.72 | 0.70 | 0.24 | -0.46 |
| | 204029 | 3643.81 | 3644.31 | 3645.18 | 3644.72 | 0.87 | 0.42 | -0.46 |
| | 449630 | 3644.48 | 3644.98 | 3645.20 | 3644.73 | 0.22 | 0.00 | -0.22 |
| | 241367 | 3644.02 | 3644.52 | 3645.20 | 3644.73 | 0.69 | 0.21 | -0.48 |
| | 564018 | 3644.56 | 3645.06 | 3645.16 | 3644.72 | 0.11 | 0.00 | -0.11 |
| | 204016 | 3644.33 | 3644.83 | 3645.13 | 3644.70 | 0.30 | 0.00 | -0.30 |
| | 399262 | 3643.71 | 3644.21 | 3645.20 | 3644.73 | 0.99 | 0.52 | -0.47 |
| | 45337 | 3644.04 | 3644.54 | 3645.19 | 3644.73 | 0.65 | 0.18 | -0.47 |
| | 424775 | 3642.97 | 3643.47 | 3644.02 | 3643.51 | 0.56 | 0.05 | -0.51 |
| | 347744 | 3644.68 | 3645.18 | 3645.21 | 3644.73 | 0.03 | 0.00 | -0.03 |
| | 283301 | 3642.28 | 3642.78 | 3645.21 | 3644.73 | 2.43 | 1.95 | -0.48 |
| | 398344 | 3643.23 | 3643.73 | 3645.19 | 3644.73 | 1.46 | 1.00 | -0.46 |
| | 568810 | 3643.88 | 3644.38 | 3645.20 | 3644.73 | 0.81 | 0.34 | -0.47 |
| | 120267 | 3644.50 | 3645.00 | 3645.19 | 3644.73 | 0.19 | 0.00 | -0.19 |
| | 202235 | 3644.03 | 3644.53 | 3645.19 | 3644.73 | 0.66 | 0.19 | -0.46 |
| | 240339 | 3643.84 | 3644.34 | 3645.12 | 3644.68 | 0.78 | 0.34 | -0.44 |
| | 240385 | 3644.18 | 3644.68 | 3645.21 | 3644.73 | 0.53 | 0.05 | -0.48 |
| | 450453 | 3644.18 | 3644.68 | 3645.12 | 3644.68 | 0.44 | 0.00 | -0.44 |
| | 607381 | 3644.09 | 3644.59 | 3645.11 | 3644.67 | 0.51 | 0.08 | -0.44 |
| | 374724 | 3643.75 | 3644.25 | 3645.04 | 3644.62 | 0.79 | 0.36 | -0.42 |
| | 124416 | 3651.16 | 3651.66 | 3651.90 | 3651.05 | 0.24 | 0.00 | -0.24 |
| | 123946 | 3651.14 | 3651.64 | 3651.90 | 3651.05 | 0.26 | 0.00 | -0.26 |
| | 476650 | 3650.43 | 3650.93 | 3651.90 | 3651.05 | 0.97 | 0.12 | -0.85 |
| | 492677 | 3651.02 | 3651.52 | 3651.90 | 3651.05 | 0.38 | 0.00 | -0.38 |
| | 164865 | 3650.46 | 3650.96 | 3651.90 | 3651.05 | 0.94 | 0.09 | -0.85 |
| | 492670 | 3650.17 | 3650.67 | 3651.90 | 3651.05 | 1.22 | 0.38 | -0.85 |
| | 76431 | 3650.34 | 3650.84 | 3651.90 | 3651.05 | 1.06 | 0.21 | -0.85 |
| | 165241 | 3650.96 | 3651.46 | 3651.90 | 3651.05 | 0.44 | 0.00 | -0.44 |
| | 425495 | 3650.67 | 3651.17 | 3651.90 | 3651.05 | 0.73 | 0.00 | -0.73 |
| | 45614 | 3650.15 | 3650.65 | 3651.90 | 3651.05 | 1.25 | 0.40 | -0.85 |
| | 347852 | 3650.28 | 3650.78 | 3651.90 | 3651.05 | 1.12 | 0.28 | -0.85 |
| | 45585 | 3650.66 | 3651.16 | 3651.90 | 3651.05 | 0.74 | 0.00 | -0.74 |
| | 347842 | 3650.62 | 3651.12 | 3651.90 | 3651.05 | 0.78 | 0.00 | -0.78 |
| | 240884 | 3650.35 | 3650.85 | 3651.90 | 3651.05 | 1.05 | 0.20 | -0.85 |
| | 203625 | 3650.53 | 3651.03 | 3651.90 | 3651.05 | 0.87 | 0.03 | -0.85 |
| | 29545 | 3650.76 | 3651.26 | 3651.90 | 3651.05 | 0.64 | 0.00 | -0.64 |
| | 654367 | 3650.44 | 3650.94 | 3651.90 | 3651.05 | 0.95 | 0.11 | -0.85 |
| | 399704 | 3650.05 | 3650.55 | 3651.90 | 3651.05 | 1.35 | 0.50 | -0.85 |
| | 323180 | 3650.25 | 3650.75 | 3651.90 | 3651.05 | 1.15 | 0.30 | -0.85 |
| | 240854 | 3650.41 | 3650.91 | 3651.90 | 3651.05 | 0.99 | 0.14 | -0.85 |
| | 321663 | 3650.51 | 3651.01 | 3651.90 | 3651.05 | 0.89 | 0.04 | -0.85 |
| | 76733 | 3651.09 | 3651.59 | 3651.90 | 3651.05 | 0.31 | 0.00 | -0.31 |
| | 564278 | 3650.48 | 3650.98 | 3651.90 | 3651.05 | 0.92 | 0.07 | -0.85 |
| | 656111 | 3650.23 | 3650.73 | 3651.90 | 3651.05 | 1.17 | 0.32 | -0.85 |
| 589905 | 3650.19 | 3650.69 | 3651.90 | 3651.05 | 1.21 | 0.36 | -0.85 | |
| 628619 | 3650.51 | 3651.01 | 3651.91 | 3651.05 | 0.90 | 0.04 | -0.86 | |
| 262203 | 3650.87 | 3651.37 | 3651.97 | 3651.05 | 0.60 | 0.00 | -0.60 | |
| 284122 | 3651.25 | 3651.75 | 3651.90 | 0.00 | 0.15 | 0.00 | -0.15 | |
| 124375 | 3650.99 | 3651.49 | 3651.92 | 3651.05 | 0.43 | 0.00 | -0.43 | |
| 399689 | 3650.66 | 3651.16 | 3652.05 | 3651.05 | 0.89 | 0.00 | -0.89 | |
| 451165 | 3653.96 | 3654.46 | 3654.97 | 3654.08 | 0.51 | 0.00 | -0.51 | |
| 654587 | 3653.61 | 3654.11 | 3654.97 | 3654.08 | 0.85 | 0.00 | -0.85 | |
| 594241 | 3652.17 | 3652.67 | 3654.47 | 3653.27 | 1.80 | 0.60 | -1.20 | |
| 283864 | 3654.31 | 3654.81 | 3654.97 | 3654.12 | 0.16 | 0.00 | -0.16 | |
| 628706 | 3654.35 | 3654.85 | 3654.97 | 3654.12 | 0.12 | 0.00 | -0.12 | |
| 628726 | 3654.20 | 3654.70 | 3654.97 | 3654.12 | 0.27 | 0.00 | -0.27 | |
| 492742 | 3653.87 | 3654.37 | 3654.97 | 3654.08 | 0.60 | 0.00 | -0.60 | |
| 165090 | 3654.22 | 3654.72 | 3654.97 | 0.00 | 0.25 | 0.00 | -0.25 | |
| 321583 | 3651.96 | 3652.46 | 3654.57 | 3653.30 | 2.11 | 0.84 | -1.27 | |
| 530861 | 3654.29 | 3654.79 | 3654.97 | 3654.12 | 0.17 | 0.00 | -0.17 | |
| 530857 | 3654.25 | 3654.75 | 3654.97 | 3654.12 | 0.22 | 0.00 | -0.22 | |
| 543410 | 3652.20 | 3652.70 | 3654.51 | 3653.25 | 1.81 | 0.54 | -1.27 | |
| 323207 | 3652.72 | 3653.22 | 3654.99 | 3654.27 | 1.77 | 1.05 | -0.72 | |

Appendix 5H

SSA4 (FMP ID: 143000011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 203838 | 3652.82 | 3653.32 | 3654.98 | 3654.27 | 1.67 | 0.95 | -0.72 |
| | 321677 | 3653.55 | 3654.05 | 3654.98 | 3654.27 | 0.94 | 0.22 | -0.72 |
| | 243269 | 3652.96 | 3653.46 | 3654.98 | 3654.27 | 1.52 | 0.80 | -0.72 |
| | 240893 | 3653.31 | 3653.81 | 3654.97 | 3654.26 | 1.16 | 0.45 | -0.71 |
| | 45653 | 3654.25 | 3654.75 | 3654.97 | 3654.14 | 0.22 | 0.00 | -0.22 |
| | 120944 | 3654.33 | 3654.83 | 3654.97 | 3654.15 | 0.14 | 0.00 | -0.14 |
| | 475847 | 3652.94 | 3653.44 | 3654.99 | 3654.27 | 1.55 | 0.83 | -0.72 |
| | 372796 | 3653.45 | 3653.95 | 3654.99 | 3654.27 | 1.04 | 0.32 | -0.72 |
| | 241949 | 3652.84 | 3653.34 | 3654.99 | 3654.27 | 1.65 | 0.93 | -0.72 |
| | 425491 | 3652.70 | 3653.20 | 3654.99 | 3654.27 | 1.78 | 1.07 | -0.72 |
| | 3187 | 3654.10 | 3654.60 | 3654.99 | 3654.27 | 0.39 | 0.00 | -0.39 |
| | 424683 | 3653.62 | 3654.12 | 3654.99 | 3654.27 | 0.86 | 0.15 | -0.72 |
| | 450103 | 3654.13 | 3654.63 | 3654.99 | 3654.27 | 0.35 | 0.00 | -0.35 |
| | 205043 | 3654.36 | 3654.86 | 3654.97 | 3654.15 | 0.11 | 0.00 | -0.11 |
| | 424642 | 3653.18 | 3653.68 | 3654.99 | 3654.27 | 1.31 | 0.59 | -0.72 |
| | 4128 | 3653.67 | 3654.17 | 3654.99 | 3654.27 | 0.82 | 0.10 | -0.72 |
| | 347972 | 3652.84 | 3653.34 | 3654.99 | 3654.27 | 1.65 | 0.93 | -0.72 |
| | 656145 | 3652.89 | 3653.39 | 3654.99 | 3654.27 | 1.60 | 0.87 | -0.72 |
| | 476665 | 3652.93 | 3653.43 | 3654.99 | 3654.27 | 1.56 | 0.84 | -0.72 |
| | 671890 | 3654.30 | 3654.80 | 3654.97 | 3654.24 | 0.17 | 0.00 | -0.17 |
| | 425479 | 3653.13 | 3653.63 | 3654.99 | 3654.27 | 1.36 | 0.64 | -0.72 |
| | 241051 | 3653.24 | 3653.74 | 3654.99 | 3654.27 | 1.25 | 0.53 | -0.72 |
| | 656166 | 3653.20 | 3653.70 | 3654.99 | 3654.27 | 1.29 | 0.57 | -0.72 |
| | 300481 | 3653.07 | 3653.57 | 3654.99 | 3654.27 | 1.42 | 0.70 | -0.72 |
| | 124487 | 3652.91 | 3653.41 | 3654.99 | 3654.27 | 1.58 | 0.86 | -0.72 |
| | 518202 | 3652.97 | 3653.47 | 3654.99 | 3654.27 | 1.52 | 0.80 | -0.72 |
| | 633235 | 3654.40 | 3654.90 | 3654.97 | 3654.24 | 0.07 | 0.00 | -0.07 |
| | 399725 | 3653.05 | 3653.55 | 3654.99 | 3654.27 | 1.45 | 0.72 | -0.72 |
| | 450104 | 3653.87 | 3654.37 | 3654.99 | 3654.27 | 0.62 | 0.00 | -0.62 |
| | 569089 | 3652.29 | 3652.79 | 3654.99 | 3654.27 | 2.20 | 1.48 | -0.72 |
| | 633232 | 3654.28 | 3654.78 | 3654.97 | 3654.25 | 0.20 | 0.00 | -0.20 |
| | 166428 | 3654.39 | 3654.89 | 3654.98 | 3654.26 | 0.09 | 0.00 | -0.09 |
| | 76741 | 3653.52 | 3654.02 | 3654.99 | 3654.27 | 0.97 | 0.25 | -0.72 |
| | 76722 | 3653.46 | 3653.96 | 3654.99 | 3654.27 | 1.04 | 0.31 | -0.72 |
| | 300470 | 3653.21 | 3653.71 | 3654.99 | 3654.27 | 1.29 | 0.56 | -0.72 |
| | 594336 | 3654.02 | 3654.52 | 3654.99 | 3654.27 | 0.47 | 0.00 | -0.47 |
| | 45618 | 3653.45 | 3653.95 | 3654.99 | 3654.27 | 1.04 | 0.32 | -0.72 |
| | 476647 | 3653.87 | 3654.37 | 3654.99 | 3654.27 | 0.63 | 0.00 | -0.63 |
| | 518220 | 3653.72 | 3654.22 | 3655.00 | 3654.27 | 0.78 | 0.05 | -0.73 |
| | 372807 | 3654.47 | 3654.97 | 3654.99 | 3654.27 | 0.02 | 0.00 | -0.02 |
| | 323224 | 3652.93 | 3653.43 | 3655.00 | 3654.27 | 1.56 | 0.84 | -0.73 |
| | 348000 | 3653.53 | 3654.03 | 3654.99 | 3654.27 | 0.96 | 0.24 | -0.72 |
| | 372794 | 3653.29 | 3653.79 | 3655.00 | 3654.27 | 1.21 | 0.48 | -0.73 |
| | 607732 | 3654.04 | 3654.54 | 3655.00 | 3654.27 | 0.45 | 0.00 | -0.45 |
| | 671840 | 3654.13 | 3654.63 | 3655.00 | 3654.27 | 0.37 | 0.00 | -0.37 |
| | 165242 | 3653.73 | 3654.23 | 3655.00 | 3654.27 | 0.77 | 0.04 | -0.73 |
| | 262130 | 3654.40 | 3654.90 | 3655.03 | 3654.75 | 0.14 | 0.00 | -0.14 |
| | 204856 | 3653.45 | 3653.95 | 3655.00 | 3654.27 | 1.05 | 0.32 | -0.73 |
| | 124413 | 3652.88 | 3653.38 | 3655.00 | 3654.27 | 1.62 | 0.89 | -0.73 |
| | 505454 | 3654.36 | 3654.86 | 3655.00 | 3654.27 | 0.15 | 0.00 | -0.15 |
| 123422 | 3653.58 | 3654.08 | 3655.05 | 3654.79 | 0.97 | 0.71 | -0.26 | |
| 399823 | 3653.78 | 3654.28 | 3655.01 | 3654.27 | 0.72 | 0.00 | -0.72 | |
| 45622 | 3653.75 | 3654.25 | 3655.01 | 3654.27 | 0.76 | 0.02 | -0.73 | |
| 372795 | 3654.24 | 3654.74 | 3655.01 | 3654.27 | 0.27 | 0.00 | -0.27 | |
| 202898 | 3654.39 | 3654.89 | 3655.01 | 3654.27 | 0.11 | 0.00 | -0.11 | |
| 628692 | 3653.90 | 3654.40 | 3655.01 | 3654.27 | 0.60 | 0.00 | -0.60 | |
| 348241 | 3653.65 | 3654.15 | 3655.01 | 3654.27 | 0.86 | 0.12 | -0.74 | |
| 76721 | 3654.33 | 3654.83 | 3655.02 | 3654.28 | 0.19 | 0.00 | -0.19 | |
| 450086 | 3654.42 | 3654.92 | 3655.02 | 3654.29 | 0.10 | 0.00 | -0.10 | |
| 283736 | 3653.72 | 3654.22 | 3655.04 | 3654.29 | 0.82 | 0.07 | -0.75 | |
| 476621 | 3654.23 | 3654.73 | 3655.04 | 3654.29 | 0.32 | 0.00 | -0.32 | |
| 124103 | 3654.56 | 3655.06 | 3655.38 | 3655.33 | 0.32 | 0.28 | -0.05 | |
| 425570 | 3654.47 | 3654.97 | 3655.04 | 3654.31 | 0.08 | 0.00 | -0.08 | |
| 75182 | 3654.31 | 3654.81 | 3655.05 | 3654.31 | 0.24 | 0.00 | -0.24 | |
| 607616 | 3654.08 | 3654.58 | 3655.39 | 3655.34 | 0.81 | 0.76 | -0.05 | |
| 323117 | 3654.29 | 3654.79 | 3655.07 | 3654.33 | 0.28 | 0.00 | -0.28 | |
| 425482 | 3654.02 | 3654.52 | 3655.07 | 3654.32 | 0.55 | 0.00 | -0.55 | |
| 241953 | 3653.50 | 3654.00 | 3655.07 | 3654.32 | 1.07 | 0.31 | -0.75 | |
| 283968 | 3653.66 | 3654.16 | 3655.63 | 3655.60 | 1.47 | 1.44 | -0.03 | |

Appendix 5H

SSA4 (FMP ID: 14300011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 323346 | 3653.96 | 3654.46 | 3654.93 | 3654.23 | 0.48 | 0.00 | -0.48 |
| | 505447 | 3654.19 | 3654.69 | 3655.09 | 3654.33 | 0.39 | 0.00 | -0.39 |
| | 243273 | 3654.14 | 3654.64 | 3655.10 | 3654.35 | 0.46 | 0.00 | -0.46 |
| | 654275 | 3692.37 | 3692.87 | 3693.53 | 3693.47 | 0.65 | 0.59 | -0.06 |
| | 241945 | 3654.41 | 3654.91 | 3655.13 | 3654.38 | 0.23 | 0.00 | -0.23 |
| | 76306 | 3695.13 | 3695.63 | 3696.10 | 3696.02 | 0.47 | 0.39 | -0.08 |
| | 530809 | 3654.57 | 3655.07 | 3655.11 | 3654.36 | 0.04 | 0.00 | -0.04 |
| | 166067 | 3653.71 | 3654.21 | 3656.59 | 3656.57 | 2.38 | 2.36 | -0.02 |
| | 76307 | 3693.53 | 3694.03 | 3695.88 | 3695.80 | 1.85 | 1.78 | -0.07 |
| | 505455 | 3654.24 | 3654.74 | 3655.12 | 3654.36 | 0.38 | 0.00 | -0.38 |
| | 425575 | 3654.37 | 3654.87 | 3655.12 | 3654.36 | 0.25 | 0.00 | -0.25 |
| | 45657 | 3653.91 | 3654.41 | 3654.93 | 3654.23 | 0.53 | 0.00 | -0.53 |
| | 399827 | 3654.36 | 3654.86 | 3655.11 | 3654.36 | 0.26 | 0.00 | -0.26 |
| | 543387 | 3671.15 | 3671.65 | 3672.44 | 3672.41 | 0.79 | 0.76 | -0.03 |
| | 300509 | 3654.39 | 3654.89 | 3654.95 | 3654.32 | 0.06 | 0.00 | -0.06 |
| | 476529 | 3655.41 | 3655.91 | 3656.21 | 3656.00 | 0.30 | 0.09 | -0.21 |
| | 76608 | 3654.22 | 3654.72 | 3654.97 | 3654.34 | 0.25 | 0.00 | -0.25 |
| | 398766 | 3655.48 | 3655.98 | 3656.70 | 3656.43 | 0.71 | 0.44 | -0.27 |
| | 399849 | 3653.73 | 3654.23 | 3654.99 | 3654.37 | 0.76 | 0.13 | -0.62 |
| | 29414 | 3700.57 | 3701.07 | 3702.07 | 3701.97 | 0.99 | 0.90 | -0.10 |
| | 240867 | 3655.96 | 3656.46 | 3657.44 | 3656.94 | 0.98 | 0.48 | -0.50 |
| | 3331 | 3654.18 | 3654.68 | 3654.98 | 3654.37 | 0.30 | 0.00 | -0.30 |
| | 203037 | 3653.84 | 3654.34 | 3654.99 | 3654.37 | 0.65 | 0.03 | -0.62 |
| | 75347 | 3653.72 | 3654.22 | 3654.99 | 3654.37 | 0.77 | 0.15 | -0.62 |
| | 241105 | 3654.11 | 3654.61 | 3654.99 | 3654.37 | 0.38 | 0.00 | -0.38 |
| | 3323 | 3654.45 | 3654.95 | 3654.99 | 3654.37 | 0.04 | 0.00 | -0.04 |
| | 594147 | 3700.03 | 3700.53 | 3702.88 | 3702.74 | 2.35 | 2.21 | -0.14 |
| | 399848 | 3653.61 | 3654.11 | 3654.99 | 3654.37 | 0.88 | 0.25 | -0.62 |
| | 399865 | 3653.92 | 3654.42 | 3654.99 | 3654.37 | 0.57 | 0.00 | -0.57 |
| | 372846 | 3654.06 | 3654.56 | 3654.99 | 3654.37 | 0.43 | 0.00 | -0.43 |
| | 492539 | 3700.66 | 3701.16 | 3703.48 | 3703.25 | 2.33 | 2.10 | -0.23 |
| | 348012 | 3654.23 | 3654.73 | 3654.99 | 3654.37 | 0.26 | 0.00 | -0.26 |
| | 399571 | 3688.72 | 3689.22 | 3695.00 | 3694.59 | 5.78 | 5.37 | -0.41 |
| | 123656 | 3660.25 | 3660.75 | 3660.80 | 3660.56 | 0.05 | 0.00 | -0.05 |
| | 654546 | 3653.58 | 3654.08 | 3654.99 | 3654.37 | 0.91 | 0.28 | -0.62 |
| | 607764 | 3653.46 | 3653.96 | 3654.99 | 3654.37 | 1.03 | 0.40 | -0.62 |
| | 449833 | 3703.24 | 3703.74 | 3704.56 | 3704.42 | 0.82 | 0.69 | -0.14 |
| | 243447 | 3653.74 | 3654.24 | 3654.99 | 3654.37 | 0.76 | 0.13 | -0.63 |
| | 323083 | 3659.50 | 3660.00 | 3665.18 | 3664.91 | 5.18 | 4.91 | -0.27 |
| | 451120 | 3652.65 | 3653.15 | 3654.99 | 3654.37 | 1.85 | 1.22 | -0.62 |
| | 628606 | 3659.69 | 3660.19 | 3662.42 | 3662.16 | 2.23 | 1.97 | -0.26 |
| | 492701 | 3652.55 | 3653.05 | 3654.99 | 3654.37 | 1.95 | 1.32 | -0.63 |
| | 166442 | 3652.58 | 3653.08 | 3654.99 | 3654.37 | 1.91 | 1.29 | -0.62 |
| | 632983 | 3704.12 | 3704.62 | 3705.96 | 3705.66 | 1.34 | 1.05 | -0.29 |
| | 564190 | 3704.66 | 3705.16 | 3705.36 | 3705.00 | 0.20 | 0.00 | -0.20 |
| | 594145 | 3705.38 | 3705.88 | 3706.77 | 3706.58 | 0.89 | 0.70 | -0.19 |
| | 3930 | 3705.25 | 3705.75 | 3706.69 | 3706.48 | 0.94 | 0.73 | -0.21 |
| | 124142 | 3705.76 | 3706.26 | 3706.87 | 3706.58 | 0.61 | 0.32 | -0.29 |
| | 29518 | 3700.71 | 3701.21 | 3701.87 | 3701.40 | 0.66 | 0.19 | -0.47 |
| | 594158 | 3705.40 | 3705.90 | 3706.09 | 3705.78 | 0.19 | 0.00 | -0.19 |
| 530664 | 3704.53 | 3705.03 | 3708.00 | 3707.76 | 2.97 | 2.73 | -0.24 | |
| 424489 | 3706.04 | 3706.54 | 3707.05 | 3706.74 | 0.50 | 0.20 | -0.30 | |
| 323050 | 3700.31 | 3700.81 | 3701.31 | 3700.90 | 0.50 | 0.09 | -0.41 | |
| 518097 | 3707.61 | 3708.11 | 3708.16 | 0.00 | 0.05 | 0.00 | -0.05 | |
| 203622 | 3665.84 | 3666.34 | 3666.56 | 3666.18 | 0.22 | 0.00 | -0.22 | |
| 124176 | 3700.42 | 3700.92 | 3700.95 | 3700.44 | 0.03 | 0.00 | -0.03 | |
| 425349 | 3666.85 | 3667.35 | 3667.81 | 0.00 | 0.47 | 0.00 | -0.47 | |
| 633078 | 3668.56 | 3669.06 | 3669.18 | 0.00 | 0.11 | 0.00 | -0.11 | |
| 656011 | 3700.11 | 3700.61 | 3700.86 | 0.00 | 0.25 | 0.00 | -0.25 | |
| 476505 | 3669.18 | 3669.68 | 3670.27 | 3669.63 | 0.59 | 0.00 | -0.59 | |
| 372686 | 3709.30 | 3709.80 | 3710.34 | 3709.81 | 0.55 | 0.01 | -0.54 | |
| 123661 | 3669.93 | 3670.43 | 3672.59 | 3671.66 | 2.17 | 1.23 | -0.94 | |
| 564201 | 3709.46 | 3709.96 | 3710.64 | 3710.16 | 0.67 | 0.20 | -0.47 | |
| 607601 | 3709.59 | 3710.09 | 3710.66 | 3710.23 | 0.57 | 0.13 | -0.44 | |
| 425193 | 3716.37 | 3716.87 | 3718.07 | 3717.60 | 1.20 | 0.73 | -0.47 | |
| 29509 | 3708.22 | 3708.72 | 3709.25 | 3708.73 | 0.53 | 0.00 | -0.53 | |
| 568959 | 3719.34 | 3719.84 | 3719.84 | 0.00 | 0.01 | 0.00 | -0.01 | |
| 632990 | 3719.27 | 3719.77 | 3720.11 | 0.00 | 0.33 | 0.00 | -0.33 | |
| 202531 | 3719.35 | 3719.85 | 3720.56 | 3719.49 | 0.71 | 0.00 | -0.71 | |

Appendix 5H

SSA4 (FMP ID: 14300011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|------------------------------------|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 28420 | 3719.66 | 3720.16 | 3721.03 | 3720.00 | 0.88 | 0.00 | -0.88 |
| | 492551 | 3719.80 | 3720.30 | 3720.65 | 3719.80 | 0.35 | 0.00 | -0.35 |
| | 241916 | 3664.61 | 3665.11 | 3665.82 | 0.00 | 0.71 | 0.00 | -0.71 |
| | 424674 | 3654.60 | 3655.10 | 3656.17 | 3655.57 | 1.07 | 0.47 | -0.60 |
| | 76960 | 3653.67 | 3654.17 | 3656.64 | 3656.14 | 2.47 | 1.97 | -0.51 |
| | 450998 | 3654.47 | 3654.97 | 3655.72 | 3655.14 | 0.75 | 0.17 | -0.58 |
| | 204663 | 3715.24 | 3715.74 | 3716.32 | 3715.83 | 0.58 | 0.09 | -0.49 |
| | 203626 | 3716.31 | 3716.81 | 3717.22 | 3716.75 | 0.41 | 0.00 | -0.41 |
| | 3991 | 3717.34 | 3717.84 | 3717.98 | 3717.50 | 0.14 | 0.00 | -0.14 |
| | 671780 | 3717.58 | 3718.08 | 3718.58 | 3718.03 | 0.50 | 0.00 | -0.50 |
| | 166085 | 3717.94 | 3718.44 | 3719.19 | 3718.58 | 0.74 | 0.14 | -0.61 |
| | 569026 | 3719.03 | 3719.53 | 3719.87 | 3719.23 | 0.34 | 0.00 | -0.34 |
| | 450061 | 3713.23 | 3713.73 | 3714.55 | 3713.56 | 0.82 | 0.00 | -0.82 |
| | 300391 | 3719.58 | 3720.08 | 3720.52 | 3719.88 | 0.45 | 0.00 | -0.45 |
| | 425498 | 3713.12 | 3713.62 | 3714.33 | 3713.39 | 0.72 | 0.00 | -0.72 |
| | 671760 | 3720.47 | 3720.97 | 3721.58 | 3720.99 | 0.61 | 0.01 | -0.60 |
| | 505420 | 3713.16 | 3713.66 | 3715.10 | 3713.72 | 1.44 | 0.06 | -1.38 |
| | 240911 | 3713.64 | 3714.14 | 3714.21 | 3713.25 | 0.07 | 0.00 | -0.07 |
| | 475735 | 3714.50 | 3715.00 | 3715.72 | 3713.95 | 0.72 | 0.00 | -0.72 |
| | 564222 | 3723.81 | 3724.31 | 3724.68 | 3724.02 | 0.38 | 0.00 | -0.38 |
| | 204834 | 3714.78 | 3715.28 | 3715.41 | 0.00 | 0.13 | 0.00 | -0.13 |
| | 564246 | 3721.26 | 3721.76 | 3722.15 | 3721.35 | 0.38 | 0.00 | -0.38 |
| | 628596 | 3724.08 | 3724.58 | 3724.66 | 0.00 | 0.08 | 0.00 | -0.08 |
| | 654463 | 3712.54 | 3713.04 | 3713.06 | 0.00 | 0.02 | 0.00 | -0.02 |
| | 283701 | 3724.41 | 3724.91 | 3725.17 | 3724.48 | 0.26 | 0.00 | -0.26 |
| | 322984 | 3730.01 | 3730.51 | 3730.66 | 0.00 | 0.16 | 0.00 | -0.16 |
| | 607611 | 3736.76 | 3737.26 | 3737.41 | 0.00 | 0.15 | 0.00 | -0.15 |
| | 655994 | 3736.90 | 3737.40 | 3737.45 | 3736.88 | 0.05 | 0.00 | -0.05 |
| | 518113 | 3736.94 | 3737.44 | 3737.71 | 3737.11 | 0.27 | 0.00 | -0.27 |
| | 530679 | 3737.38 | 3737.88 | 3737.89 | 3737.33 | 0.00 | 0.00 | 0.00 |
| | 262136 | 3741.71 | 3742.21 | 3742.51 | 3742.07 | 0.30 | 0.00 | -0.30 |
| | 654152 | 3802.29 | 3802.79 | 3804.51 | 3803.04 | 1.72 | 0.26 | -1.47 |
| | 2786 | 3801.84 | 3802.34 | 3802.47 | 0.00 | 0.13 | 0.00 | -0.13 |
| | 123567 | 3809.85 | 3810.35 | 3811.21 | 0.00 | 0.85 | 0.00 | -0.85 |
| | 28200 | 3810.21 | 3810.71 | 3811.58 | 0.00 | 0.87 | 0.00 | -0.87 |
| | 122864 | 3810.85 | 3811.35 | 3811.64 | 0.00 | 0.30 | 0.00 | -0.30 |
| | 425018 | 3809.52 | 3810.02 | 3811.06 | 0.00 | 1.04 | 0.00 | -1.04 |
| | 654136 | 3813.10 | 3813.60 | 3814.67 | 0.00 | 1.07 | 0.00 | -1.07 |
| | 632757 | 3831.06 | 3831.56 | 3832.10 | 0.00 | 0.54 | 0.00 | -0.54 |
| | 300154 | 3838.74 | 3839.24 | 3839.27 | 0.00 | 0.03 | 0.00 | -0.03 |
| | 374746 | 3835.19 | 3835.69 | 3836.21 | 0.00 | 0.53 | 0.00 | -0.53 |
| | 492361 | 3837.62 | 3838.12 | 3838.32 | 0.00 | 0.19 | 0.00 | -0.19 |
| | 593952 | 3836.37 | 3836.87 | 3837.52 | 0.00 | 0.65 | 0.00 | -0.65 |
| | 75863 | 3838.25 | 3838.75 | 3839.63 | 3838.69 | 0.88 | 0.00 | -0.88 |
| | 543198 | 3839.43 | 3839.93 | 3840.78 | 0.00 | 0.85 | 0.00 | -0.85 |
| | 671527 | 3846.64 | 3847.14 | 3847.44 | 0.00 | 0.29 | 0.00 | -0.29 |
| | 28102 | 3846.31 | 3846.81 | 3848.25 | 3846.48 | 1.44 | 0.00 | -1.44 |
| | 300153 | 3847.15 | 3847.65 | 3848.04 | 0.00 | 0.38 | 0.00 | -0.38 |
| | 589640 | 3847.59 | 3848.09 | 3849.13 | 3846.75 | 1.04 | 0.00 | -1.04 |
| | 475225 | 3848.98 | 3849.48 | 3849.54 | 0.00 | 0.06 | 0.00 | -0.06 |
| 449496 | 3849.01 | 3849.51 | 3850.28 | 0.00 | 0.77 | 0.00 | -0.77 | |
| 374728 | 3850.47 | 3850.97 | 3851.48 | 0.00 | 0.51 | 0.00 | -0.51 | |
| 449493 | 3852.43 | 3852.93 | 3853.27 | 0.00 | 0.34 | 0.00 | -0.34 | |
| 475220 | 3852.73 | 3853.23 | 3853.69 | 0.00 | 0.46 | 0.00 | -0.46 | |
| 424139 | 3852.28 | 3852.78 | 3854.18 | 0.00 | 1.40 | 0.00 | -1.40 | |
| 424874 | 3854.29 | 3854.79 | 3855.21 | 0.00 | 0.42 | 0.00 | -0.42 | |
| 75525 | 3860.27 | 3860.77 | 3860.92 | 0.00 | 0.16 | 0.00 | -0.16 | |
| 164071 | 3860.93 | 3861.43 | 3861.46 | 0.00 | 0.03 | 0.00 | -0.03 | |
| 475513 | 3635.48 | 3635.98 | 3636.67 | 0.00 | 0.69 | 0.00 | -0.69 | |
| 242016 | 3639.19 | 3639.69 | 3640.08 | 0.00 | 0.39 | 0.00 | -0.39 | |
| 372301 | 3639.10 | 3639.60 | 3640.08 | 0.00 | 0.48 | 0.00 | -0.48 | |
| 347165 | 3639.26 | 3639.76 | 3640.08 | 0.00 | 0.31 | 0.00 | -0.31 | |
| 122818 | 3644.48 | 3644.98 | 3645.15 | 3644.71 | 0.17 | 0.00 | -0.17 | |
| 607714 | 3650.95 | 3651.45 | 3651.90 | 3651.05 | 0.44 | 0.00 | -0.44 | |
| 492626 | 3650.13 | 3650.63 | 3651.90 | 3651.05 | 1.27 | 0.43 | -0.85 | |
| 451135 | 3654.31 | 3654.81 | 3654.97 | 3654.36 | 0.16 | 0.00 | -0.16 | |
| 569059 | 3655.23 | 3655.73 | 3656.00 | 3655.62 | 0.27 | 0.00 | -0.27 | |
| 164845 | 3700.53 | 3701.03 | 3701.41 | 3700.98 | 0.39 | 0.00 | -0.39 | |
| 449801 | 3715.02 | 3715.52 | 3715.68 | 3714.91 | 0.16 | 0.00 | -0.16 | |

Appendix 5H

SSA4 (FMP ID: 143000011) Hydraulic Model Depth Results at Buildings Analyzed

| Flood Frequency and Structure Type | Building_ID | Terrain Elevation | Finished Floor Elev. (FFE) | Existing WSE | Proposed WSE | Existing Depth Above FFE | Proposed Depth Above FFE | Depth Difference |
|---|-------------|-------------------|----------------------------|--------------|--------------|--------------------------|--------------------------|------------------|
| | | ft | ft | ft | ft | ft | ft | ft |
| 0.2% Annual Chance Residences | 398597 | 3716.75 | 3717.25 | 3717.58 | 3717.24 | 0.33 | 0.00 | -0.33 |
| | 321471 | 3754.45 | 3754.95 | 3755.28 | 0.00 | 0.33 | 0.00 | -0.33 |
| | 122588 | 3845.72 | 3846.22 | 3846.63 | 0.00 | 0.41 | 0.00 | -0.41 |
| 0.2% Annual Chance Commercial Buildings | 568700 | 3639.29 | 3639.79 | 3,641.17 | 3639.68 | 1.38 | 0.00 | -1.38 |
| | 242452 | 3639.12 | 3639.62 | 3,641.17 | 3639.68 | 1.55 | 0.07 | -1.49 |
| | 3520 | 3639.07 | 3639.57 | 3,641.17 | 3639.68 | 1.60 | 0.12 | -1.49 |
| | 492323 | 3640.36 | 3640.86 | 3,641.17 | 0.00 | 0.31 | 0.00 | -0.31 |
| | 240218 | 3638.48 | 3638.98 | 3,641.17 | 3639.68 | 2.19 | 0.70 | -1.49 |
| | 28984 | 3639.39 | 3639.89 | 3,641.17 | 3639.69 | 1.28 | 0.00 | -1.28 |
| | 123284 | 3639.43 | 3639.93 | 3,641.17 | 3639.69 | 1.24 | 0.00 | -1.24 |
| | 517881 | 3638.36 | 3638.86 | 3,641.17 | 3639.68 | 2.31 | 0.83 | -1.49 |
| | 300109 | 3639.13 | 3639.63 | 3,641.17 | 3639.69 | 1.54 | 0.06 | -1.49 |
| | 505137 | 3639.63 | 3640.13 | 3,641.17 | 3639.69 | 1.04 | 0.00 | -1.04 |
| | 240204 | 3638.10 | 3638.60 | 3,641.17 | 3639.68 | 2.57 | 1.09 | -1.49 |
| | 283151 | 3640.03 | 3640.53 | 3,641.17 | 3639.69 | 0.64 | 0.00 | -0.64 |
| | 475967 | 3638.07 | 3638.57 | 3,641.17 | 3639.68 | 2.60 | 1.12 | -1.49 |
| | 449451 | 3637.73 | 3638.23 | 3,641.17 | 3639.68 | 2.94 | 1.46 | -1.49 |
| | 476063 | 3638.45 | 3638.95 | 3,641.17 | 3639.69 | 2.22 | 0.74 | -1.48 |
| | 164184 | 3638.07 | 3638.57 | 3,641.17 | 3639.69 | 2.60 | 1.12 | -1.48 |
| | 530479 | 3637.95 | 3638.45 | 3,641.17 | 3639.68 | 2.72 | 1.23 | -1.49 |
| | 449453 | 3637.47 | 3637.97 | 3,641.17 | 3639.68 | 3.20 | 1.72 | -1.49 |
| | 165397 | 3638.61 | 3639.11 | 3,641.17 | 3639.69 | 2.06 | 0.58 | -1.48 |
| | 372470 | 3638.17 | 3638.67 | 3,641.17 | 3639.69 | 2.50 | 1.02 | -1.48 |
| | 122989 | 3637.95 | 3638.45 | 3,641.17 | 3639.68 | 2.72 | 1.23 | -1.49 |
| | 589625 | 3638.70 | 3639.20 | 3,641.17 | 3639.69 | 1.98 | 0.50 | -1.48 |
| | 75697 | 3637.85 | 3638.35 | 3,641.17 | 3639.69 | 2.83 | 1.34 | -1.49 |
| | 202854 | 3638.29 | 3638.79 | 3,641.17 | 3639.69 | 2.39 | 0.90 | -1.48 |
| | 632672 | 3637.65 | 3638.15 | 3,641.17 | 3639.68 | 3.02 | 1.54 | -1.49 |
| | 75700 | 3637.78 | 3638.28 | 3,641.17 | 3639.69 | 2.89 | 1.41 | -1.48 |
| | 530476 | 3637.60 | 3638.10 | 3,641.17 | 3639.68 | 3.07 | 1.58 | -1.49 |
| | 607385 | 3644.05 | 3644.55 | 3,645.14 | 3644.69 | 0.59 | 0.15 | -0.44 |
| | 164241 | 3644.50 | 3645.00 | 3,645.18 | 3644.73 | 0.18 | 0.00 | -0.18 |
| | 321669 | 3650.64 | 3651.14 | 3,651.90 | 3651.05 | 0.76 | 0.00 | -0.76 |
| | 321669 | 3650.64 | 3651.14 | 3,651.90 | 3651.05 | 0.76 | 0.00 | -0.76 |
| | 607688 | 3653.27 | 3653.77 | 3,654.47 | 3653.27 | 0.70 | 0.00 | -0.70 |
| | 243267 | 3652.84 | 3653.34 | 3,654.48 | 3653.28 | 1.14 | 0.00 | -1.14 |
| | 594363 | 3654.25 | 3654.75 | 3,654.97 | 3654.12 | 0.21 | 0.00 | -0.21 |
| | 372737 | 3652.56 | 3653.06 | 3,654.49 | 3653.34 | 1.43 | 0.27 | -1.16 |
| | 29564 | 3652.93 | 3653.43 | 3,654.96 | 3654.26 | 1.53 | 0.83 | -0.70 |
| | 164848 | 3654.40 | 3654.90 | 3,654.98 | 3654.27 | 0.08 | 0.00 | -0.08 |
| | 476477 | 3653.89 | 3654.39 | 3,654.53 | 0.00 | 0.14 | 0.00 | -0.14 |
| | 518104 | 3654.24 | 3654.74 | 3,654.99 | 3654.50 | 0.26 | 0.00 | -0.26 |
| | 76144 | 3689.91 | 3690.41 | 3,691.58 | 3691.52 | 1.17 | 1.11 | -0.07 |
| | 204453 | 3689.77 | 3690.27 | 3,691.76 | 3691.70 | 1.49 | 1.42 | -0.07 |
| 262148 | 3656.07 | 3656.57 | 3,657.66 | 3657.60 | 1.09 | 1.02 | -0.06 | |
| 607634 | 3655.35 | 3655.85 | 3,656.25 | 3656.22 | 0.39 | 0.37 | -0.03 | |
| 450881 | 3655.26 | 3655.76 | 3,656.37 | 3656.35 | 0.61 | 0.59 | -0.03 | |
| 375080 | 3654.22 | 3654.72 | 3,656.54 | 3656.52 | 1.82 | 1.80 | -0.02 | |
| 300364 | 3656.88 | 3657.38 | 3,658.50 | 3658.47 | 1.12 | 1.09 | -0.03 | |
| 543358 | 3713.68 | 3714.18 | 3,715.25 | 3714.87 | 1.07 | 0.69 | -0.38 | |
| 76089 | 3774.67 | 3775.17 | 3,775.50 | 3774.51 | 0.33 | 0.00 | -0.33 | |
| 671656 | 3765.48 | 3765.98 | 3,766.45 | 0.00 | 0.47 | 0.00 | -0.47 | |
| 671653 | 3767.18 | 3767.68 | 3,768.71 | 3767.43 | 1.03 | 0.00 | -1.03 | |
| 29289 | 3770.29 | 3770.79 | 3,771.55 | 0.00 | 0.76 | 0.00 | -0.76 | |
| 372634 | 3764.50 | 3765.00 | 3,765.48 | 3765.45 | 0.49 | 0.45 | -0.03 | |
| 45410 | 3777.10 | 3777.60 | 3,777.99 | 3775.41 | 0.39 | 0.00 | -0.39 | |
| 164574 | 3781.99 | 3782.49 | 3,782.59 | 3781.11 | 0.09 | 0.00 | -0.09 | |
| 74741 | 3778.50 | 3779.00 | 3,779.73 | 3779.73 | 0.73 | 0.73 | 0.00 | |
| 568833 | 3808.48 | 3808.98 | 3,810.44 | 3808.70 | 1.47 | 0.00 | -1.47 | |