

# North West Area

## Option 1A



## Location Map

| State Park                              |
|---|
| BUCKSKIN HILLS                          |
| Maeser                                  |
|   |
| ASHLEY VALLEY                           |
|   |
| ASPHALT                                 |
| S A B B B B B B B B B B B B B B B B B B |





# North West Area

## Option 1B



## Location Map



0 1,250 2,500 3,750 5,000 6,250 7,500



# North West Area

## Option 2



- Restore Natural Drainage
  - 💛 Canal
  - ~ Channel
    - Municipalities
    - Project Area









# North West Area

## Option 3





0 1,250 2,500 3,750 5,000 6,250 7,500



# West Area

## Option 1A



## Location Map



0 2,500 5,000 7,500 10,000 12,500 15,000



# West Area

## Option 1B



Location Map

0 2,500 5,000 7,500 10,000 12,500 15,000 HORIZ: 1'' = 5,000'



# West Area

## Option 2

- **Detention Basin**
- Restore Natural Drainage
- 🥏 Canal

 $\wedge$ 

- ~ Channel
  - Municipalities
  - Project Area

# Location Map

0 2,500 5,000 7,500 10,000 12,500 15,000



# West Area

## Option 3





0 2,500 5,000 7,500 10,000 12,500 15,000



# North East Area

## Option 1



## Location Map

| State Park         |
|--------------------|
| BUCKSKIN HILLS     |
| Maeser<br>Vernal   |
| Naples Range Creek |
| ASHLEY VALLEY      |
|                    |
| ASPHALT<br>RIDGE   |
|                    |

0 1,500 3,000 4,500 6,000 7,500 9,000



# North East Area

## Option 2



- Restore Natural Drainage
  - 💛 Canal
  - ~ Channel
    - Municipalities
    - Project Area



# Location Map

0 1,600 3,200 4,800 6,400 8,000 9,600 HORIZ: 1" = 3,000'



# North East Area

## Option 3



# Location Map

0 1,500 3,000 4,500 6,000 7,500 9,000



# Central Area

## Option 1





0 3,500 7,000 10,500 14,000 17,500 21,000



# Central Area

## Option 2



|          | Location Map   |
|----------|----------------|
|          | BUCKSKIN HILLS |
|          | Vernal         |
| 17       | ASHLEY VALLEY  |
| S. S. C. |                |

0 1,250 2,500 3,750 5,000 6,250 7,500



# Central Area

## Option 3



Location Map

0 3,500 7,000 10,500 14,000 17,500 21,000

D. Appendix D – Engineer's Opinion of Probable Cost

E. Appendix E – Additional Analysis information

#### Benefit Area GIS Analysis - Property Values & Homes

| Northwest Benefit Are | ea                               |                 | Raw Data                    | With No Weightin                            | g Factor                      |   | Data WITH Weighting Factor Applied |              |                               |                               |                               |  |  |
|-----------------------|----------------------------------|-----------------|-----------------------------|---|-------------------------------|---|------------------------------------|--------------|-------------------------------|-------------------------------|-------------------------------|--|--|
|                       | Benefit Area                     | Benefit Area    | in Benefit Area             | Benefit Area                                | # Structures                  | Market Value of Parcels within Benefit Area |                                    |              |                               |                               |                               |  |  |
| Option                | Benefit Area<br>Weighting Factor | (ac)            | # Structures<br>Intersected | Market Value of Parcels within Benefit Area |                               |   | (ac)                               | Intersected  | Improvements                  | Total                         |                               |  |  |
| Option 1A             |                                  | 2,501           | 893                         | \$149,451,171                               | \$57,997,518                  | \$207,448,690                               | 1,262                              | 391          | \$70,991,012                  | Land<br>\$27,240,905          | \$98,231,917                  |  |  |
| 75% Benefit Area      | 75%                              | 1,096           | 218                         | \$44,868,395                                | \$18,761,576                  | \$63,629,971                                | 822                                | 164          | \$33,651,296                  | \$14,071,182                  | \$47,722,478                  |  |  |
|                       |                                  |                 |                             | . , ,                                       | . , ,                         | . , ,                                       | -                                  |              | . , ,                         | . , ,                         | . , ,                         |  |  |
| 50% Benefit Area      | 50%                              | 395             | 277                         | \$50,468,942                                | \$15,035,243                  | \$65,504,185                                | 198                                | 139          | \$25,234,471                  | \$7,517,621                   | \$32,752,092                  |  |  |
| 30% Benefit Area      | 30%                              | 408             | 89                          | \$12,824,777                                | \$8,119,613                   | \$20,944,391                                | 122                                | 27           | \$3,847,433                   | \$2,435,884                   | \$6,283,317                   |  |  |
| 20% Benefit Area      | 20%                              | 602             | 309                         | \$41,289,057                                | \$16,081,086                  | \$57,370,143                                | 120                                | 62           | \$8,257,811                   | \$3,216,217                   | \$11,474,029                  |  |  |
| Option 1B             |                                  | 2,314           | 923                         | \$155,052,172                               | \$59,104,039                  | \$214,156,212                               | 1,126                              | 416          | \$75,587,999                  | \$28,185,642                  | \$103,773,641                 |  |  |
| 75% Benefit Area      | 75%                              | 913             | 256                         | \$51,505,680                                | \$20,092,282                  | \$71,597,962                                | 685                                | 192          | \$38,629,260                  | \$15,069,212                  | \$53,698,472                  |  |  |
| 50% Benefit Area      | 50%                              | 396             | 230                         | \$50.115.872                                |                               |   | 198                                | 132          |                               |                               |                               |  |  |
|                       | 30%                              |                 |                             | 1/-   | \$15,042,583                  | \$65,158,455                                |                                    | 26           | \$25,057,936                  | \$7,521,291                   | \$32,579,227                  |  |  |
| 30% Benefit Area      |                                  | 423             | 86                          | \$12,146,788                                | \$8,013,043                   | \$20,159,831                                | 127                                |              | \$3,644,036                   | \$2,403,913                   | \$6,047,949                   |  |  |
| 20% Benefit Area      | 20%                              | 582             | 309                         | \$41,283,832                                | \$15,956,132                  | \$57,239,964                                | 116                                | 62           | \$8,256,766                   | \$3,191,226                   | \$11,447,993                  |  |  |
| Option 2              | 50%                              | 2,612           | 944                         | \$164,080,246                               | \$61,023,700                  | \$225,103,945                               | 1,306                              | 472          | \$82,040,123                  | \$30,511,850                  | \$112,551,973                 |  |  |
|                       |                                  |                 |                             | •   |                               |   |                                    |              |                               |                               |                               |  |  |
| Option 3              | 50%                              | 903             | 274                         | \$41,638,758                                | \$19,819,128                  | \$61,457,886                                | 452                                | 137          | \$20,819,379                  | \$9,909,564                   | \$30,728,943                  |  |  |
| West Benefit Area     |                                  |                 |                             |   |                               |   |                                    |              |                               |                               |                               |  |  |
| west benefit Ared     | Benefit Area                     | Benefit Area    | # Structures                | Market Value                                | of Parcole with               | in Renefit Area                             | Benefit Area                       | # Structures | Market Val                    | e of Parcels with             | in Renefit Area               |  |  |
| Option                | Weighting Factor                 |                 | Intersected                 | Improvements                                | Land                          | Total                                       |                                    | Intersected  | Improvements                  | Land                          | Total                         |  |  |
|                       | weighting Factor                 | (ac)            |                             |   |                               |   | (ac)                               |              | · ·                           |                               |                               |  |  |
| Option 1A             |                                  | 19,490          | 3,785                       | \$799,199,134                               | . , ,                         | \$1,212,970,508                             | 8,780                              | 1,680        | \$345,066,204                 | \$182,105,045                 | \$527,171,248                 |  |  |
| 75% Benefit Area      | 75%                              | 5,619           | 775                         | \$155,658,041                               | \$91,204,858                  | \$246,862,899                               | 4,214                              | 581          | \$116,743,531                 | \$68,403,644                  | \$185,147,175                 |  |  |
| 50% Benefit Area      | 50%                              | 4,768           | 1,302                       | \$267,539,676                               | \$133,805,049                 |   | 2,384                              | 651          | \$133,769,838                 | \$66,902,525                  | \$200,672,363                 |  |  |
| 30% Benefit Area      | 30%                              | 3,616           | 1,065                       | \$193,525,511                               | \$90,465,832                  | \$283,991,343                               | 1,085                              | 320          | \$58,057,653                  | \$27,139,750                  | \$85,197,403                  |  |  |
| 20% Benefit Area      | 20%                              | 5,487           | 643                         | \$182,475,906                               | \$98,295,634                  | \$280,771,540                               | 1,097                              | 129          | \$36,495,181                  | \$19,659,127                  | \$56,154,308                  |  |  |
|                       |                                  |                 |                             |   | •                             |   |                                    |              | Т                             | 1                             | 1                             |  |  |
| Option 1B             |                                  | 17,468          | 3,558                       | \$750,551,292                               | \$386,619,688                 |   | 8,254                              | 1,727        | \$351,605,847                 | \$183,372,466                 | \$534,978,313                 |  |  |
| 75% Benefit Area      | 75%                              | 5,616           | 929                         | \$175,383,073                               | \$102,173,171                 | \$277,556,244                               | 4,212                              | 697          | \$131,537,305                 | \$76,629,878                  | \$208,167,183                 |  |  |
| 50% Benefit Area      | 50%                              | 4,388           | 1,313                       | \$269,688,212                               | \$133,934,700                 | \$403,622,912                               | 2,194                              | 657          | \$134,844,106                 | \$66,967,350                  | \$201,811,456                 |  |  |
| 30% Benefit Area      | 30%                              | 3,554           | 1,107                       | \$241,284,348                               | \$96,728,745                  | \$338,013,093                               | 1,066                              | 332          | \$72,385,305                  | \$29,018,623                  | \$101,403,928                 |  |  |
| 20% Benefit Area      | 20%                              | 3,910           | 209                         | \$64,195,659                                | \$53,783,072                  | \$117,978,731                               | 782                                | 42           | \$12,839,132                  | \$10,756,614                  | \$23,595,746                  |  |  |
|                       |                                  |                 |                             | 1.  | Г.:                           |   |                                    |              | T :                           |                               |                               |  |  |
| Option 2              | 50%                              | 22,010          | 4,592                       | \$920,801,292                               | \$474,213,371                 | \$1,395,014,664                             | 11,005                             | 2,296        | \$460,400,646                 | \$237,106,686                 | \$697,507,332                 |  |  |
| Ontion 2              | 50%                              | 10.020          | 4 1 2 0                     | 6706 533 343                                | 6247 745 266                  | 64 444 277 670                              | 5.210                              | 2.070        | 6200 200 4FC                  | ¢172.072.002                  | 6572 420 020                  |  |  |
| Option 3              | 50%                              | 10,638          | 4,139                       | \$796,532,312                               | \$347,745,366                 | \$1,144,277,678                             | 5,319                              | 2,070        | \$398,266,156                 | \$173,872,683                 | \$572,138,839                 |  |  |
| Northeast Benefit Are | 22                               |                 |                             |   |                               |   |                                    |              |                               |                               |                               |  |  |
| Northeast Denent Are  | Benefit Area                     | Benefit Area    | # Structures                | Market Value                                | of Parcols with               | in Benefit Area                             | Benefit Area                       | # Structures | Market Val                    | e of Parcels with             | in Ronofit Aroa               |  |  |
| Option                | Weighting Factor                 | (ac)            | Intersected                 | Improvements                                | Land                          | Total                                       | (ac)                               | Intersected  | Improvements                  | Land                          | Total                         |  |  |
| Option 1              | weighting Factor                 | 3,425           | 311                         | \$50,963,014                                | \$40,823,890                  | \$91,786,904                                | 2,498                              | 224          | \$36,725,759                  | \$29,703,435                  | \$66,429,194                  |  |  |
|                       | 75%                              | 3,142           | 273                         |   |                               | \$82,142,969                                | 2,498                              |              |                               |                               |                               |  |  |
| 75% Benefit Area      |                                  |                 |                             | \$44,977,009                                | \$37,165,960                  |   |                                    | 205          | \$33,732,757                  | \$27,874,470                  | \$61,607,227                  |  |  |
| 50% Benefit Area      | 50%                              | 283             | 38                          | \$5,986,005                                 | \$3,657,930                   | \$9,643,935                                 | 142                                | 19           | \$2,993,003                   | \$1,828,965                   | \$4,821,968                   |  |  |
| Option 2              | 50%                              | 3,369           | 230                         | \$36,802,160                                | \$31,570,631                  | \$68,372,791                                | 1,685                              | 115          | \$18,401,080                  | \$15,785,315                  | \$34,186,395                  |  |  |
|                       |                                  |                 |                             |   |                               |   |                                    |              |                               |                               |                               |  |  |
| Option 3              | 50%                              | 2,220           | 370                         | \$56,948,509                                | \$36,699,964                  | \$93,648,472                                | 1,110                              | 185          | \$28,474,254                  | \$18,349,982                  | \$46,824,236                  |  |  |
| Central Benefit Area  |                                  |                 |                             |   |                               |   |                                    |              |                               |                               |                               |  |  |
| central benefit Alea  | Benefit Area                     | Benefit Area    | # Structures                | Market Value                                | of Parcels with               | in Renefit Area                             | Benefit Area                       | # Structures | Market Valu                   | e of Parcels with             | in Benefit Area               |  |  |
| Option                | Weighting Factor                 | (ac)            | Intersected                 | Improvements                                | Land                          | Total                                       | (ac)                               | Intersected  | Improvements                  | Land                          | Total                         |  |  |
| Option 1              | 100%                             | 3,425           | 265                         | \$39,823,301                                | \$29,087,044                  | \$68,910,345                                | 3.425                              | 265          | \$39,823,301                  | \$29,087,044                  | \$68,910,345                  |  |  |
|                       | 100,0                            | 5,125           | 200                         | 200,020,001                                 | +10,007,044                   | + 00/010/0 +0                               | 5,125                              | 200          | 200,020,001                   | +23,007,044                   | 200,510,545                   |  |  |
| Option 2              | 100%                             | 2,039           | 233                         | \$31,818,661                                | \$24,747,804                  | \$56,566,465                                | 2,039                              | 233          | \$31,818,661                  | \$24,747,804                  | \$56,566,465                  |  |  |
|                       |                                  | 1 ,             |                             |   | . , ,,,,,,,                   |   |                                    |              |                               | . , ,                         |                               |  |  |
|                       |                                  |                 |                             |   |                               |   |                                    |              |                               |                               |                               |  |  |
| Option 3              |                                  | 14,731          | 4,713                       | \$883,333,816                               | \$408,852,060                 | \$1,292,185,875                             | 8,385                              | 2,473        | \$457,576,238                 | \$216,799,932                 | \$674,376,170                 |  |  |
|                       | 100%                             | 14,731<br>2,039 | 4,713<br>233                | \$883,333,816<br>\$31,818,661               | \$408,852,060<br>\$24,747,804 | \$1,292,185,875<br>\$56,566,465             | 8,385<br>2,039                     | 2,473<br>233 | \$457,576,238<br>\$31,818,661 | \$216,799,932<br>\$24,747,804 | \$674,376,170<br>\$56,566,465 |  |  |

#### Project Ranking Analysis

#### Improvement Weighting Factors

| Ranking Category      | Weighting Factor | Notes   |
|-----------------------|------------------|---|
| Benefit to Cost Ratio | 10               | Protected property value (benefit) to the total project cots (cost) ratio |
| Homes Protected       | 5                | Based on address point data within project impacted/protected zones       |

#### Improvement Ranking of Options in Improvement Areas

|                  |        |  |                  | Benefit to Cost Ratio   |                                |                            |                             |                             |                             |                               |                                 |          |         |  |                                       |
|------------------|--------|--|------------------|-------------------------|--------------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|---------------------------------|----------|---------|--|---------------------------------------|
| Improvement Area | Option | Option   | Option           | Improvement Description | Project<br>Infrustructure Cost | Yearly Maintenance<br>Cost | 30 Year<br>Maintenance Cost | Total Cost Over<br>30 Years | Protected Property<br>Value | Protected Pro<br>Total Cost O | operty Value /<br>over 30 Years | Homes Pr | otected | Project Score<br>(lower score<br>wins) | Project<br>Ranking per<br>Improvement |
|                  |        |  | Cost Cost        |                         | Cost                           | Cost                       | Cost                        | Factor Rank                 |                             | Number                        | Rank                            | wiii3)   | Area    |  |                                       |
| NW               | 1A     | Coal Mine Basin and Highline Canal                       | \$ 1,121,400.00  | \$ 14,000.00            | \$ 420,000.00                  | \$ 1,541,400.00            | \$ 98,231,916.52            | 64                          | 1                           | 391                           | 3                               | 25       | 1       |  |                                       |
| NW               | 1B     | Coal Mine & Yellow Hills Basins and New Stormwater Canal | \$ 2,664,500.00  | \$ 22,000.00            | \$ 660,000.00                  | \$ 3,324,500.00            | \$ 103,773,641.11           | 31                          | 2                           | 416                           | 2                               | 30       | 2       |  |                                       |
| NW               | 2      | Natural Drainage Enhancements                            | \$ 4,433,400.00  | \$ 41,000.00            | \$ 1,230,000.00                | \$ 5,663,400.00            | \$ 112,551,972.62           | 20                          | 3                           | 472                           | 1                               | 35       | 3       |  |                                       |
| NW               | 3      | Storm Drain  | \$ 4,757,300.00  | \$ 22,500.00            | \$ 675,000.00                  | \$ 5,432,300.00            | \$ 30,728,943.15            | 6                           | 4                           | 137                           | 4                               | 60       | 4       |  |                                       |
| WSW              | 1A     | Yellow Hills Basin and Highline Canal                    | \$ 2,482,200.00  | \$ 43,000.00            | \$ 1,290,000.00                | \$ 3,772,200.00            | \$ 527,171,248.26           | 140                         | 1                           | 1,680                         | 4                               | 30       | 1       |  |                                       |
| WSW              | 1B     | Yellow Hills Basin and Highline/Upper Canals             | \$ 2,552,000.00  | \$ 43,000.00            | \$ 1,290,000.00                | \$ 3,842,000.00            | \$ 534,978,312.84           | 139                         | 2                           | 1,727                         | 3                               | 35       | 2       |  |                                       |
| WSW              | 2      | Natural Drainage Enhancements                            | \$ 12,671,400.00 | \$ 58,000.00            | \$ 1,740,000.00                | \$ 14,411,400.00           | \$ 697,507,331.82           | 48                          | 3                           | 2,296                         | 1                               | 35       | 2       |  |                                       |
| WSW              | 3      | Storm Drain  | \$ 41,148,800.00 | \$ 78,000.00            | \$ 2,340,000.00                | \$ 43,488,800.00           | \$ 572,138,838.90           | 13                          | 4                           | 2,070                         | 2                               | 50       | 4       |  |                                       |
| NE               | 1      | Basins and Rockpoint Canal                               | \$ 4,383,400.00  | \$ 40,000.00            | \$ 1,200,000.00                | \$ 5,583,400.00            | \$ 66,429,194.23            | 12                          | 1                           | 224                           | 1                               | 15       | 1       |  |                                       |
| NE               | 2      | Natural Drainage Enhancements                            | \$ 7,383,900.00  | \$ 40,000.00            | \$ 1,200,000.00                | \$ 8,583,900.00            | \$ 34,186,395.34            | 4                           | 2                           | 115                           | 3                               | 35       | 2       |  |                                       |
| NE               | 3      | Basins and Storm Drains                                  | \$ 14,874,400.00 | \$ 38,500.00            | \$ 1,155,000.00                | \$ 16,029,400.00           | \$ 46,824,236.23            | 3                           | 3                           | 185                           | 2                               | 40       | 3       |  |                                       |
| С                | 1      | Spring Creek Reservoir                                   | \$ 62,761,200.00 | \$ 125,000.00           | \$ 3,750,000.00                | \$ 66,511,200.00           | \$ 68,910,345.32            | 1.04                        | 3                           | 265                           | 2                               | 40       | 3       |  |                                       |
| С                | 2      | Ashley Creek Stabilization                               | \$ 10,715,300.00 | \$ 75,000.00            | \$ 2,250,000.00                | \$ 12,965,300.00           | \$ 56,566,464.73            | 4                           | 2                           | 233                           | 3                               | 35       | 2       |  |                                       |
| С                | 3      | Ashley Creek Stabilization and Storm Drain               | \$ 62,901,000.00 | \$ 217,000.00           | \$ 6,510,000.00                | \$ 69,411,000.00           | \$ 674,376,169.98           | 10                          | 1                           | 2,473                         | 1                               | 15       | 1       |  |                                       |

#### Final Ranking of Selected Improvements

|                      |        |  | Benefit to Cost Ratio                                  |               |                 |                             |                             |   |      |                 |      |  |                                       |
|----------------------|--------|--|--|---------------|-----------------|-----------------------------|-----------------------------|---|------|-----------------|------|--|---------------------------------------|
| Improvement Area Opt | Option | Improvement Description                    | Project Yearly Maintenance<br>Infrustructure Cost Cost |               |                 | Total Cost Over<br>30 Years | Protected Property<br>Value | ty Protected Property Value /<br>Total Cost Over 30 Years |      | Homes Protected |      | Project Score<br>(lower score<br>wins) | Project<br>Ranking per<br>Improvement |
|                      |        |  | Cost   | Cost          | Cost            | Cost                        | Cost                        | Factor  | Rank | Number          | Rank | wiiisj                                 | Area                                  |
| NW                   | 1A     | Coal Mine Basin and Highline Canal         | \$ 1,121,400.00  | \$ 14,000.00  | \$ 420,000.00   | \$ 1,541,400.00             | \$ 98,231,916.52            | 64  | 3    | 391             | 3    | 45                                     | 3                                     |
| WSW                  | 1A     | Yellow Hills Basin and Highline Canal      | \$ 2,482,200.00  | \$ 43,000.00  | \$ 1,290,000.00 | \$ 3,772,200.00             | \$ 527,171,248.26           | 140   | 2    | 1680            | 2    | 30                                     | 2                                     |
| NE                   | 1      | Basins and Rockpoint Canal                 | \$ 4,383,400.00  | \$ 40,000.00  | \$ 1,200,000.00 | \$ 5,583,400.00             | \$ 66,429,194.23            | 12  | 4    | 224             | 4    | 60                                     | 4                                     |
| С                    | 3      | Ashley Creek Stabilization and Storm Drain | \$ 62,901,000.00                                       | \$ 217,000.00 | \$ 6,510,000.00 | \$ 69,411,000.00            | \$ 674,376,169.98           | 10  | 1    | 2473            | 1    | 15                                     | 1                                     |

## MEMORANDUM OF AGREEMENT AMONG THE NATURAL RESOURCES CONSERVATION SERVICE, UINTAH COUNTY, UINTAH SPECIAL SERVICE DISTRICT 1, ASHLEY CENTRAL IRRIGATION COMPANY, AND THE UTAH STATE HISTORIC PRESERVATION OFFICE REGARDING THE MITIGATION OF ADVERSE EFFECTS TO SITE 42UN5195 (ASHLEY CENTRAL CANAL), UINTAH COUNTY, UTAH

**WHEREAS**, the Natural Resources Conservation Service (NRCS) is providing technical and financial assistance to Uintah County (Sponsor) to construct two detention basins; piping, pressurizing, and regarding the Ashley Central Canal; replacing 38 existing turnout meters; install screening structures and an inlet control structure; and maintaining the Kids Canal recreational resource, (hereafter referred to as the "Project"); and

**WHEREAS**, the NRCS, as the lead Federal agency, has determined that the Project is an undertaking subject to review under Section 106 of the National Historic Preservation Act (NHPA), 54 U.S.C. §305108, and its implementing regulations, 36 C.F.R. 800; and

**WHEREAS**, the NRCS has defined the Project's Area of Potential Effects (APE), as defined at 36 C.F.R. 800.16(d), as a 214-acre area consisting of a series of linear corridors along and adjacent to the Ashley Central Canal and Steinaker Service Canal as well as two large polygonal areas wherein the proposed debris basins would be constructed; and

**WHEREAS**, a cultural resources inventory of the APE has been completed, as required by 36 C.F.R. 800, and described in the report entitled *Cultural Resource Assessment for the Ashley Valley Watershed Projects, Uintah County*, prepared by Certus Environmental Solutions and dated September 3, 2021, which the NRCS and the Utah State Historic Preservation Office (Utah SHPO) agree that the Ashley Central Canal (42UN5195), is eligible for inclusion in the National Register of Historic Places (NRHP); and

**WHEREAS**, the NRCS has determined that the Project will result in an adverse effect to the Ashley Central Canal (42UN5195) due to the piping of 5.6 miles of the Ashley Central Canal; and

**WHEREAS**, of the 5.6 miles, 5.1 miles of the Ashley Central Canal will remain open for flood control and the banks will be recontoured to pre-construction condition; and

**WHEREAS**, adverse effects are limited to a 0.5-mile-long section known as the Kids Canal, which is a significant traditional, social, and cultural resource to the community of Vernal; and

**WHEREAS**, the NRCS has consulted with the Utah SHPO, the Northwestern Band of Shoshone, the Ute Indian Tribe of the Uintah and Ouray reservation, the Eastern Shoshone Tribe of the Wind

Reservation, and the Shoshone Bannock, to resolve the Project's adverse effect on historic properties; and

**WHEREAS**, the Northwestern Band of Shoshone, the Ute Indian Tribe of the Uintah and Ouray reservation, the Eastern Shoshone Tribe of the Wind Reservation, and the Shoshone Bannock decline further participation in the development of this MOA; and

**WHEREAS,** the Utah SHPO, Uintah County, the Uintah Special Service District 1 (SSD 1), and the Ashley Central Irrigation Company (ACIC) have requested to participate in the development of this MOA; and

**WHEREAS**, the NRCS has notified the Advisory Council on Historic Preservation (ACHP) of the adverse effect to Site 42UN5195 and has invited the ACHP's participation in the Project, pursuant to 36 C.F.R. 800.6(a)(1), in a letter dated October 27, 2022; and

WHEREAS, the ACHP, in a letter dated November 14, 2022, declined to participate in consultation; and

**WHEREAS**, "Signatories" hereafter collectively refers to the required (NRCS and Utah SHPO) and invited, (Uintah County, SSD 1, and the ACIC); and

**WHEREAS**, other parties may be invited to become signatories to this MOA if such a party agrees to these terms; and

**NOW, THEREFORE,** the Signatories agree that upon the decision of the NRCS to proceed with the Project, the NRCS shall ensure that the following stipulations are implemented in order to resolve the adverse effect of the Project on historic properties, and that these stipulations shall govern the Project and all of its parts until this MOA expires or is terminated.

## STIPULATIONS

The NRCS shall ensure that the following stipulations are implemented:

## I. PROFESSIONAL QUALIFICATIONS

- **A.** All tasks will be completed by personnel meeting the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* as stated in 36 C.F.R. 61.
- **B.** All tasks will be completed according to specifications consistent with the Secretary of Interior's *Standards and Guidelines for Archeological Documentation and Historical Documentation* and, where appropriate, guidelines required by the Utah SHPO.

## II. MITIGATION OF ARCHAEOLOGICAL RESOURCES

- A. The NRCS shall ensure the mitigation measures outlined below are completed. Mitigation will focus on the Kids Canal segment of the Ashely Central Canal, as this is where adverse effects are occurring due to proposed piping of the Ashley Central Canal. The Kids Canal segment is a 0.5-mile segment of the canal that has deep traditional, cultural, and historical significance to the community of Vernal. Mitigation stipulations include:
  - 1. Modifying the Project design to install piping along the west side of the Kids Canal to minimize impacts to existing trees and divert water into the 0.5-milelong segment; and
  - 2. Purchasing of water shares by the ACIC and SSD 1 (est. 1.75cfs) required to sustain existing trees, to carry water to the lowest portion of Kids Canal, and to provide flow for passive recreation purposes; and
  - 3. Interpretive kiosk to be placed at the Kids Canal, developed in consultation with local special interest groups (i.e. Friends of Kids Canal and private landowners) and maintained by SSD 1 for a minimum of two years; and
  - 4. Short film, produced in partnership with Uintah County Library.

## III. UNANTICIPATED DISCOVERIES

- A. In the event of an unanticipated archaeological discovery during construction, the NRCS shall follow procedures outlined in the Prototype Programmatic Agreement with the Utah SHPO. If significant discoveries requiring longer-term work stoppage for consultation and mitigation are encountered, the NRCS will consult per 36 C.F.R. 800.6 to develop a plan to further mitigate the adverse effect.
- B. If human remains are discovered under any circumstance, the remains will be treated in accordance with the requirements of the Native American Graves Protection and Repatriation Act (NAGPRA) (25 U.S.C. 3001 et seq.) and its implementing regulations (43 C.F.R. 10). All construction activities within 100 feet of the remains shall cease immediately and the NRCS shall consult pursuant to 43 C.F.R. 10.5, to develop a written plan of action to manage the discovery. Construction in the area of the remains may need to be halted throughout the review process. Continuation of work following a discovery will be contingent upon approval by the NRCS Area Cultural Resource Specialist in consultation with the Utah SHPO, tribes, and other consulting parties that the approved plan has been satisfactorily completed.

## IV. DISPUTE RESOLUTION

Should any Signatory to this MOA object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, the NRCS shall consult with such party to resolve the objection. If the NRCS determines that such objection cannot be resolved, the NRCS will:

- A. Forward all documentation relevant to the dispute, including the NRCS's proposed resolution, to the ACHP. The ACHP shall provide the NRCS with its advice on the resolution of the objection within thirty (30) days of receiving adequate documentation. Prior to reaching a final decision on the dispute, the NRCS shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP and the Signatories, and provide them with a copy of this written response. The NRCS will then proceed according to its final decision.
- **B.** If the ACHP does not provide its advice regarding the dispute within the thirty (30) day time period, the NRCS may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, the NRCS shall prepare a written response that takes into account any timely comments regarding the dispute from the Signatories to the MOA, and provide them and the ACHP with a copy of such written response.
- **C.** It will be the responsibility of the NRCS to carry out all other actions subject to the terms of this MOA that are not the subject of the dispute.

## V. AMENDMENTS

This MOA may be amended when such an amendment is agreed to in writing by all Signatories. The amendment will be effective on the date a copy signed by all of the Signatories is filed with the ACHP.

## VI. COORDINATION WITH OTHER ACTIONS

Other state or federal agencies that provide permitting or financial assistance to an undertaking covered by this MOA may satisfy their own compliance responsibilities under Section 106 of the NHPA by accepting and complying with the terms of this MOA. Other parties may have their actions covered by this MOA if they agree to its terms. Agencies shall notify the NRCS and the Utah SHPO in writing of the intent to adhere to this MOA.

## VII. TERMINATION

- A. If the terms of this MOA have not been implemented by March 15, 2028, then this MOA shall be considered null and void. In such an event, the NRCS shall so notify the Signatories and, if it chooses to continue with the Project, then it shall reinitiate review of and consultation on the Project in accordance with 36 C.F.R. 800.3 through 800.7.
- **B.** In the event that the NRCS does not carry out the terms of this MOA, the Signatories shall consult to seek amendment to the MOA and proceed in accordance with 36 C.F.R. 800.6(c)(8).
- **C.** Any signatory to the MOA may terminate this MOA by providing thirty (30) days notice to the other parties, provided that the parties shall consult during the period prior to termination to seek agreement on amendments or other actions that would avoid termination. In the event of termination, the NRCS shall proceed in accordance with 36 C.F.R. 800.6(c)(8), execute a new agreement in accordance with 800.6(c)(1) or request comments of the ACHP under 800.7(a).

Execution of this MOA by the NRCS and Signatories, and its submission to the ACHP in accordance with 36 C.F.R. 800.6(b)(1)(iv), shall, pursuant to 36 C.F.R. 800.6(c), be considered to be an agreement with the ACHP for the purposes of Section 110(1) of the NHPA. Execution and submission of this MOA, and implementation of its terms, evidence that the NRCS has afforded the ACHP an opportunity to comment on the Project and its effects on historic properties, and that the NRCS has taken into account the effects of the Project on historic properties.

## SIGNATORY PAGE

#### MEMORANDUM OF AGREEMENT AMONG THE NATURAL RESOURCES CONSERVATION SERVICE, UINTAH COUNTY, UINTAH SPECIAL SERVICE DISTRICT 1, ASHLEY CENTRAL IRRIGATION COMPANY, AND THE UTAH STATE HISTORIC PRESERVATION OFFICE REGARDING THE MITIGATION OF ADVERSE EFFECTS TO SITE 42UN5195 (ASHLEY CENTRAL CANAL), UINTAH COUNTY, UTAH

NATURAL RESOURCES CONSERVATION SERVICE

EMILY FIFE

Digitally signed by EMILY FIFE Date: 2023 03.21 19:34:43 -06'00'

Emily Fife, Utah State Conservationist

## SIGNATORY PAGE

## **MEMORANDUM OF AGREEMENT** AMONG THE NATURAL RESOURCES CONSERVATION SERVICE, **UINTAH COUNTY, UINTAH SPECIAL SERVICE DISTRICT 1,** ASHLEY CENTRAL IRRIGATION COMPANY, AND THE UTAH STATE HISTORIC PRESERVATION OFFICE REGARDING THE MITIGATION OF ADVERSE EFFECTS TO SITE 42UN5195 (ASHLEY CENTRAL CANAL), **UINTAH COUNTY, UTAH**

## UTAH STATE HISTORIC PRESERVATION OFFICER

Christopher Merritt, Utah State Historic Preservation Officer Dr.

Memorandum of Agreement for the Mitigation of Adverse Effects to the Ashley Central Canal NRCS Agreement No. N4923MOU0012555 Page 8 of 11

#### SIGNATORY PAGE

#### MEMORANDUM OF AGREEMENT AMONG THE NATURAL RESOURCES CONSERVATION SERVICE, UINTAH COUNTY, UINTAH SPECIAL SERVICE DISTRICT 1, ASHLEY CENTRAL IRRIGATION COMPANY, AND THE UTAH STATE HISTORIC PRESERVATION OFFICE REGARDING THE MITIGATION OF ADVERSE EFFECTS TO SITE 42UN5195 (ASHLEY CENTRAL CANAL), UINTAH COUNTY, UTAH

UINTAH COUNTY

5-21-2023 Date: Brad Horrocks, Chairman, Uintah County Commission

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## **UINTAH SPECIAL SERVICE DISTRICT 1**

DocuSigned by:

3/17/2023 Date:

Cherry Meier

Cheryl Meier, Executive Director

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ASHLEY CENTRAL IRRIGATION COMPANY

Wayne Simper Date: 3/17/2023 Wayne Simper, President

Memorandum of Agreement for the Mitigation of Adverse Effects to the Ashley Central Canal NRCS Agreement No. N4923MOU0012555 Page 11 of 12

#### **CONCURRIN**G PARTY

#### MEMORANDUM OF AGREEMENT AMONG THE NATURAL RESOURCES CONSERVATION SERVICE, UINTAH COUNTY, UINTAH SPECIAL SERVICE DISTRICT 1, ASHLEY CENTRAL IRRIGATION COMPANY, AND THE UTAH STATE HISTORIC PRESERVATION OFFICE REGARDING THE MULTIGATION OF ADVERSE EFFECTS TO SITE 42UN5195 (ASHLEY CENTRAL CANAL), UINTAH COUNTY, UTAH

FRIENDS OF THE KIDS CANAL

Date: 3/2 Cindy Dilsayer, Representative

Memorandum of Agreement for the Mitigation of Adverse Effects to the Ashley Central Canal NRCS Agreement No. N4923MOU0012555 Page 12 of 12

#### **CONCURRING PARTY**

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AHRNSBRAK FAMILY 3 2023 David Ahrnsbrak, Representative

23 Date: Laura Ahrnsbrak, Representative